

# ARCTIC BIBLIOGRAPHY

PREPARED FOR AND IN COOPERATION WITH  
THE DEPARTMENT OF DEFENSE

UNDER THE DIRECTION OF  
THE ARCTIC INSTITUTE OF  
NORTH AMERICA

*EDITED BY*  
MARIE TREMAINE

VOL. IV



DEPARTMENT OF DEFENSE

1954

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## FOREWORD

Volume 4 of the *Arctic Bibliography*, like the preceding volumes, has been prepared by the Arctic Institute of North America under an Office of Naval Research contract. The present volume represents the work of the past two years, carried out under the able direction of Marie Tremaine, who has served as Editor and Director of the Bibliography project since its inception. The work of the fiscal year 1951-52 was conducted with the joint support of the Department of the Army and the Department of the Navy. That of the current fiscal year has been supported by the Arctic Aeromedical Laboratory, Alaskan Air Command, U. S. A. F. The Department of the Air Force has also provided funds for printing the present volume.

Volumes 1 to 3 of the *Arctic Bibliography* listed, described and indexed 20,003 publications relating to the Arctic and sub-Arctic regions of America and Eurasia. The present volume, arranged in the same manner, contains 7,627 author entries, numbered from 20,004 to 27,631. A special effort has been made to cover materials published from 1950 through 1952, but earlier works are also included. In the subject fields, medical and biological publications have received special emphasis. The present volume also contains more materials on Scandinavia and Finland than did the first three volumes.

The Directing Committee and Editor wish again to acknowledge the generous cooperation of the Library of Congress in providing working space for the Bibliography staff. Dr. Burton W. Adkinson and Mr. Robert C. Gooch, Directors, respectively, of the Library's Reference Department and Administration, have

continued to serve as members of the Directing Committee and have assisted the work in many ways. Finally, we are indebted to Dr. A. H. Lawton, Dr. Charles E. Hutchinson, from Headquarters, U. S. A. F., and to Lt. Col. Andres I. Karstens, and Dr. Kaare Rodahl, of the Arctic Aeromedical Laboratory, Department of the Air Force, whose encouragement and support have made possible the continuation of the work of the *Arctic Bibliography* and the publication of this volume.

Henry B. Collins  
Chairman, Directing Committee  
*Arctic Bibliography*

June 1953

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## INTRODUCTION

This volume continues the record of arctic literature as outlined in the Introduction of the first volume—with certain significant changes in emphasis. A greater proportion of the publications described here post-date World War II. They show the increase of developmental and relative decrease of exploratory activities in the North. They reflect the extension in recent years, of research under arctic conditions produced in laboratories, as well as field work in the high latitudes. More arctic data are incorporated into recent broadly based scientific monographs and practical scientific handbooks than was the case in pre-war years. Accordingly such publications, notably Russian, are more strongly represented in this than earlier volumes of the Bibliography.

The first results of intensive search of publications on health and medicine under low temperature conditions are represented in this volume. The several hundred such papers are described, and indexed under Physiology, Environmental Effects, Frostbite, Disease, Medicine, Public Health, and related terms. These publications relate largely, though not exclusively, to the white man's life in the Arctic. That of man native to the North was broadly though by no means exhaustively covered as far as North America is concerned, in the first three volumes of *Arctic Bibliography*. And with the present volume similar coverage for natives of northern Eurasia is begun. A more systematic search of anthropological literature than was hitherto possible is planned to extend and coordinate such materials described in the earlier volumes. Physiology and anthropology, as the two disciplines primarily

concerned with the human factor in Arctic problems, will be strongly represented in the next volume of this bibliography. There, too, a list of journals considerably extended from that in volume 1 will be published.

Descriptions of the materials are on the whole somewhat more informative than in the initial volumes. Those in botany and zoology have been contributed largely by Mr. Vladimir Asmous, those in health and medicine and the biological sciences generally by Dr. Emil Liebman, and those in anthropology by Dr. Jonas Balys, all members of the Project staff. The Finnish materials, particularly on forestry, were analyzed by Mr. George Makela. Analyses by other bibliographic units, working more intensively in specialized fields, are quoted for items of common interest. The resultant economy of effort seems to outweigh, by far, some difference of emphasis or viewpoint. Thanks are given to the Snow, Ice, and Permafrost Research Establishment of the U. S. Army, Corps of Engineers, for such courtesy, extended by its SIPRE Project in Library of Congress. Contributions to *Arctic Bibliography* from *Meteorological abstracts and bibliography*, and from *Bibliography and index of geology exclusive of North America* are again gratefully acknowledged.

Marie Tremaine  
Director of Arctic Bibliography Project

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| CU—University of California, Berkeley, Calif.                                  | CaOUS—University of Ottawa, St.<br>Joseph's Scholasticate, Ottawa.                               |
| CaBV—Vancouver, B. C., Public<br>Library.                                      | CaT—Public Library, Toronto, Canada.   |
| CaMAI—Arctic Institute of North<br>America, Montreal, Canada.                  | CaTU—University of Toronto, Toronto, Canada.   |
| CaO—Library of Parliament, Ottawa.   | CaWH—Hudson's Bay Company,<br>Winnipeg.  |
| CaOA—Dept. of Agriculture, Ottawa.   | CtY—Yale University, New Haven,<br>Conn.   |
| CaOAr—Public Archives of Canada,<br>Ottawa.                                    | DA—U. S. Dept. of Agriculture,<br>Washington, D. C.  |
| CaOF—Forestry Branch, Dept. of<br>Resources and Development, Ottawa.           | DAI—Arctic Institute of North<br>America, Washington, D. C.                                      |
| CaOG—Geological Survey, Ottawa.  | DAWS—Air Weather Service, Technical<br>Information Files, Andrews<br>Air Base, Washington, D. C. |
| CaOGB—Geographical Branch, Dept.<br>of Mines and Technical Surveys,<br>Ottawa. | DBRE—Bureau of Railway Economics,<br>Washington, D. C.   |
| CaOH—Dept. of National Health<br>and Welfare, Ottawa.                          | DBS—National Bureau of Standards,<br>Washington, D. C.   |
| CaOM—Dept. of Mines and Technical<br>Surveys, Ottawa.                          | DCE—Carnegie Endowment for International<br>Peace, Washington,<br>D. C.                          |
| CaON—National Research Council of<br>Canada, Ottawa.                           | DCGS—U. S. Coast & Geodetic Survey,<br>Washington, D. C.   |
| CaOS—Dominion Bureau of Statistics,<br>Ottawa.                                 |  |

- DCT—Carnegie Institution of Washington, Dept. of Terrestrial Magnetism, Washington, D. C.
- DGS—U. S. Geological Survey, Washington, D. C.
- DI—U. S. Dept. of the Interior, Washington, D. C.
- DLC—Library of Congress, Washington, D. C.
- DM—U. S. Bureau of Mines, Washington, D. C.
- DN—HO—U. S. Navy, Hydrographic Office, Suitland, Md.
- DN—YD—U. S. Navy, Bureau of Yards and Docks, Washington, D. C.
- DNO—U. S. Naval Observatory, Washington, D. C.
- DNR—U. S. Office of Naval Records and Library, Washington, D. C.
- DP—U. S. Army Library, Pentagon, Washington, D. C.
- DPHS—U. S. Public Health Service Library, Bethesda, Md.
- DPR—U. S. Bureau of Public Roads
- DSG—U. S. Armed Forces Medical Library, Washington, D. C.
- DSI—Smithsonian Institution, Washington, D. C.
- \*DSI—A—Smithsonian Institution, Astrophysical Observatory, Washington, D. C.
- \*DSI—E—Smithsonian Institution, Bureau of American Ethnology, Washington, D. C.
- \*DSI—M—Smithsonian Institution, U. S. National Museum, Washington, D. C.
- DSt—U. S. Dept. of State, Washington, D. C.
- DWB—U. S. Weather Bureau, Washington, D. C.
- InU—Indiana University, Bloomington, Ind.
- MB—Public Library, Boston, Mass.
- MH—Harvard University, Cambridge, Mass.
- MH—A—Harvard University, Arnold Arboretum, Boston, Mass.
- MH—BH—Harvard University, Blue Hill Observatory, Milton 85, Mass.
- MH—F—Harvard University, Farlow Reference Library of Cryptogamic Botany, Cambridge, Mass.
- MH—G—Harvard University, Gray Herbarium, Cambridge, Mass.
- MH—L—Harvard University, Law School, Cambridge, Mass.
- MH—M—Harvard University, Medical School, Cambridge, Mass.
- MH—P—Harvard University, Peabody Museum, Cambridge, Mass.
- MH—Z—Harvard University, Museum of Comparative Zoology, Cambridge, Mass.
- MiD—Public Library, Detroit, Mich.
- MiU—University of Michigan, Ann Arbor, Mich.
- MnU—University of Minnesota, Minneapolis, Minn.
- NN—Public Library, New York, N. Y.
- NNA—American Geographical Society, New York, N. Y.
- NNBG—New York Botanical Garden, New York, N. Y.
- NNC—Columbia University, New York, N. Y.
- NNE—Engineering Societies Library, New York, N. Y.
- NNM—American Museum of Natural History, New York, N. Y.
- NNN—New York Academy of Medicine, New York, N. Y.
- NhD—Dartmouth College, Hanover, N. H.
- NhD—Stef—Stefansson Library, Dartmouth College, Hanover, N. H.
- OCl—Public Library, Cleveland, Ohio
- OO—Oberlin College, Oberlin, Ohio
- OU—Ohio State University, Columbus, Ohio
- PP—Free Library of Philadelphia, Philadelphia, Penna.

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\*Holdings of these libraries used subsequent to summer 1952 are indicated: DSI, and inquiries concerning any materials in all these Libraries should be addressed to The Librarian, Smithsonian Institution, Washington, D. C.

## ARCTIC BIBLIOGRAPHY

**20004. \*A., D. Kamchadaly.** (*In: Éntsiklopedicheskiĭ slovar'*, 1890-1904. v. 14, p. 224-25) **Title tr.:** The Kamchadals.

Account of these inhabitants (about 4000) of the southern part of Kamchatka Peninsula; their various dialects; their stone-age culture until the end of the 17th century; their physical characteristics; their way of life and religious beliefs; social organizations; sea-animal hunting, fishing and sealing; their farm and garden produce; textiles, domestic animals and trade.

**Copy seen:** DLC.

**20005. \*A., D. Ostiäki** (*In: Éntsiklopedicheskiĭ slovar'*, 1890-1904. v. 22, p. 368-70) **Title tr.:** The Ostyaks.

Brief account of these Finno-Ugrian tribes ("about 25,000") distributed along the valleys of the Ob' and Irtysh Rivers and their tributaries; etymological origin of the tribal name; relationship of Ostyaks to the Magyars; their language and history; physical characteristics as typical of a remnant of an ancient race; their clothing, dwellings, seasonal migrations with fishing in summer, hunting in winter; their agricultural economy; farms, orchards, cattle and horses; their psychological characteristics; exploitation and subsequent moral and economic deterioration; mixture of Christian and traditional religious beliefs and practices, shamanism, death and marriage customs, folklore, etc., the process of russification these peoples.

**Copy seen:** DLC.

**AAGAARD**, see Blytt, A. G. Bidrag om vegetationen paa Nowaja Semlja. 1873. No. 20736.

**20006. AALTONEN, VIKTOR TOIVO, 1889-** . Kangasmetsien luonnollisesta uudistumisesta Suomen Lapissa, I. Helsinki, 1919. ix, 319, 56 p., illus., plates, fold. map, diags. (Helsingfors. Metsätie-

teellinen tutkimuslaitos. Julkaisuja, 1) **Title tr.:** The natural renewal of heath forests in Finnish Lapland, I.

Contains an introductory survey of the area: its geology, altitude, hydrology, weather, soil types and soil temperature; vegetation of the area; forests (type, age, effect of forest culture), p. 1-44. Data and discussion on the natural renewal of dry heath forests: (in brief) their characteristics, occurrence throughout the world and in Lapland; earlier studies on factors affecting their renewal in various countries, p. 45-100; data (in detail) on these forests in Lapland: method of the present study and experiment areas, description of the renewal process (data on seedlings, branches, trunk and seeds), p. 101-163; factors affecting renewal of pine forests: (1) surface growth, the seedlings, their type, density and spacing, etc.; (2) effect of mature trees on new growth; (3) damage from reindeer grazing, trampling, horns, etc.; (4) effect of snow (weight) p. 271-85; (5) ground freezing and thawing (p. 286-97) and its effect on forest renewal; (6) fungi and insects (*Phacidium infestans* Karst, *Lophyrus sertifer* Geoff., and *Tortrix resinella* L.) p. 164-308. Spruce and leaf tree renewal, p. 309-312; dry heath forest care, p. 313-19. Bibliography 110 items. Summary in German, p. 1-48 (at end) and German-Finnish glossary, p. 53-56. **Copy seen:** DLC.

**20007. AALTONEN, VIKTOR TOIVO, 1889-** . Metsikön itseharventumisesta ja puiden kasvutilasta luonnonmetsissä. Helsinki, 1925. 20 p. tables, diags. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 9:5) **Title tr.:** The natural thinning of forests and the condition of the trees in natural forests.

Contains data on birch, spruce, and pine trees in forested regions including Lapland. Summary in German.

**Copy seen:** DLC.

\*Probably Dmitriĭ Nikolaevich Anuchin, 1843-1923, q.v.

**20008. AALTONEN, VIKTOR TOIVO, 1889-** . Studien über die Bodenbildung in den Hainwäldern Finnlands, mit einigen Beobachtungen über ausländische Braunerden. Helsinki, 1947. 92 p. illus., tables, diagrs. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisu, 35:1)

**Title tr.:** Studies on the soil formation in the grove forests of Finland, with some observations on exotic brown soil.

*Contains* physical, chemical and floristic analyses of young and old soils and their formation in southern and northern Finland including Lapland: a study of old soils from various European countries and a discussion of the importance of the brown soil in soil classification. Bibliography (27 items). Summary in Finnish.

**Copy seen:** DLC.

**20009. AALTONEN, VIKTOR TOIVO, 1889-** . Über den Einfluss der Holzart auf den Boden. Helsinki, 1932. 88 p. tables, diagrs. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisu, 17:5)

**Title tr.:** On the effect of different species of trees on the soil.

*Contains* chemical and other soil analyses in larch and mixed stands, to ascertain the possible effect of the kind of trees on the quality of the soil. The differences found were insignificant; the difficulty of determining the effect of trees on the soil is discussed. Summary of the text in English, captions to the extensive data tables in Finnish and English.

**Copy seen:** DLC.

**20010. AALTONEN, VIKTOR TOIVO, 1889-** . Über die Ausbreitung und den Reichtum der Baumwurzeln in den Heidewäldern Lapplands. Helsinki, 1920. 55 p. 20 plates, tables. (Acta forestalia fennica, 14:1) **Title tr.:** On the spread and abundance of roots in heath forests of Lapland.

*Contains* an analysis of the root systems of individual, specific trees; amount and spread of roots in forests; root-competition.

**Copy seen:** DLC.

**20011. AALTONEN, VIKTOR TOIVO, 1889-** . Über die postglazialen, natürlichen Veränderungen des Waldbodens in Finnland. Helsinki, 1933. 22 p. map, diagrs. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisu, 18:4) **Title tr.:** On the post-glacial, natural changes of the forest soil in Finland.

*Contains* preliminary report, dealing mainly with the problem of podsol formation in Finnish forests, including those of

the arctic area. Three main factors in podsol formation are discussed: climate, constitution of the soil, and its age. Forest soils are classified accordingly; conditions in adjacent countries are also discussed.

**Copy seen:** DLC.

**20012. AALTONEN, VIKTOR TOIVO, 1889-** . Wasserverbrauch der Bäume und Feuchtigkeitsverhältnisse des Bodens. Helsinki, 1920. 24 p. 4 plates, tables. (Acta forestalia fennica, 14:2) **Title tr.:** Water consumption of trees and humidity of the soil.

*Contains* an analysis of humidity conditions of the soil around individual trees as compared with trees in stands. Part of the study was conducted near Sodankylä in Lapland. Data on methods, humidity of soil at various depths and distances from trees, etc., are supplied. Bibliographical footnotes.

**Copy seen:** DLC.

**20013. AALTONEN, VIKTOR TOIVO, 1889-** . Zur Kenntnis der Ausfällung des Eisens im Boden; eine vorläufige Mitteilung. Helsinki, 1923. 10 p. (Acta forestalia fennica, 1923. v. 25) **Title tr.:** Contribution to the knowledge of iron precipitation in the soil; a preliminary report.

*Contains* an account of observations and experiments made in 1920-21 at several points of northern Finland and Lapland, on the rôle iron plays in the process of podsolization and formation of meadow-ore and on the rôle humus plays in counteracting these processes. Preliminary results of some experiments on precipitation of iron sol are given. Bibliographical footnotes.

**Copy seen:** DLC.

**20014. AALTONEN, VIKTOR TOIVO, 1889-** . Zur Stratigraphie des Podsolprofils besonders vom Standpunkt der Bodenfruchtbarkeit. I. Helsinki, 1935. 150 p. illus., maps, diagrs., tables. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisu, 20:6) **Title tr.:** The stratification of podsol soil with regard to the fertility, I.

On the basis of investigation of 3300 profiles in 974 locations, author presents data on physical and chemical properties of the soil, its age, the effect of various solutions on soil samples, and its stratification; comparing podsol soil from dry heath forests (sandy ground) in northern, with that occurring in southern Finland. Summary in Finnish, p. 114-22.

**Copy seen:** DLC.

**20015. ÅNGSTRÖM, ANDERS KNUTSON, 1888-** . Applications of heat radiation measurements to the problems of the evaporation from lakes and the heat convection at their surfaces. (Geografiska annaler, 1920. Årg. 2, häft. 3, p. 237-52, 5 tables) "Evaporation from Lake Vassijaure in summer determined and theoretical values are applied to the problem of convection of heat from sea surfaces. Indicated that there must be a balance of energy between the insolation absorbed by a body of water and the energy exchanges due to radiation, convection, conduction, and the latent heat of evaporation, and that evaporation might be determined by measuring the components of this equilibrium"—*Meteorological abstracts and bibliography*, Nov. 1950. v. 1, no. 11, p. 735. Includes bibliography (14 items).

**Copied seen:** DWB.

**20016. AARIO, LEO.** Jääkauden jälkeisestä ilmaston kehityksestä ja sen vaikutuksesta kulttuurihistoriaan. (Terra, 1944. v. 56, no. 2, p. 41-53, map) **Title tr.:** Sketches of the development of the weather following the ice age and its effect on cultural history.

Includes data on the climate of the Petsamo area in comparison with that of southern Finland and on the effect of climate on culture in general. **Bibliography** (20 items). **Copied seen:** DLC.

**20017. AARIO, LEO.** Der Tümmelerfund von Kolosjoki und die Entwicklungsgeschichte der Wälder Petsamos. Helsinki, 1939. 11 p., illus, diagr. (Fennia, 66:4) **Title tr.:** The porpoise finds of Kolos River and the development of the forests of Petsamo.

The bones were found in 1937 at an elevation of 30 meters above sea level and covered by a 25 m. layer of clay. A pollen and diatom analysis suggested that the skeleton belongs to the beginning of the Pholas-period (ca. 6800 B. C.) or even to an older period, and that due to the colder climate the pine forest was even farther from the area than today. **Bibliography** (7 items).

**Copied seen:** DLC.

**20018. AARIO, LEO.** Turpeen siite-pölyrunsauden käytöstä metsätiheyden selvittäjänä. (Terra, 1942. v. 54, no. 1-2, p. 1-14, tables) **Title tr.:** Pollen frequency in peat used to determine the density of former forests.

On the basis of 1009 pollen frequency

determinations in test ranges from the bog at Petsamo, author determines density and types of former vegetation throughout Lapland and on the islands near Petsamo. Eight vegetation types are classified as: tundra, birch scrub, birch forests, Pholas age and older birch groves, birch and pine forests, pine forests, unwooded fjeld (glaciated arctic hill) areas, and birch-covered fjelds. **Bibliography** (10 items). Summary in German. **Copied seen:** DCL.

**20019. AARIO, LEO.** Waldgrenzen und subrezentenen Pollenspektren in Petsamo, Lapland. Helsinki, 1940. 120 p. 2 plates, illus., fold. map, diagrs., tables. (Suomalainen tiedeakatemia. Toimituksia. Annales Academiae scientiarum fennicae, 54:8) **Title tr.:** Forest limits and sub-Recent pollen spectra in Petsamo, Lapland.

The study deals with present forests in the region roughly north of 68°20' N. lat., between the Patsjoki River and the pre-1944 Russo-Finnish border. This region and its forests is described in detail (p. 9-21); the selection and treatment of the peat specimens is outlined, and results given: pollen analyses in the investigated areas; pollen conditions along the routes of the investigations; pollen spectra in the various forest areas in this region; the occurrence of individual plant species and genera in the pollen spectrum; comparative observations on the development of vegetation during the late- and post-glacial period. **Bibliography** (80 items).

**Copied seen:** DLC.

**20020. AARNIO, B.** Maalaatumuodostuminen ja luokitus. (Terra, 1924. v. 36, no. 2-3, p. 130-40, illus., diagrs.) **Title tr.:** The grouping and development of soils.

Contains outline of the main soil types, their development and occurrence, with data on the effect of low temperatures and northern trees on soil; remarks on salt in the soil in the far North.

**Copied seen:** DLC.

**20021. AARNIO, B.** Die mechanische Zusammensetzung der moräne in Finnland. (Suomen maataloustieteellinen seura. Aikakauskirja, 1938. v. 10, no. 1, p. 1-11, tables, diagrs.) **Title tr.:** The mechanical composition of moraine in Finland.

Contains discussion with tabular data giving depth (in cm.) and sizes (in mm.)

of soil particles and their frequency of occurrence in moraine soil in more than 100 localities in Finland, including several in the North. Summary in Finnish. **Copy seen:** DLC.

**20022. ÅRSVOLD, OTTAR.** Jeg lenges tilbake . . . Noen minner fra fangstmannslivet i Nordost-Grønland. (Polarboken, 1949, p. 65-72) **Title tr.:** I long for the past . . . Some recollections from a trapper's life in Northeast Greenland.

The author, who spent a winter in Northeast Greenland when he was 16, recounts some of his hunting experiences and encounters with wild animals.

**Copy seen:** CaMAI.

**20023. AARTOVAARA, GUST. A.** Miettetiä pohjanmaan rimpisoissa esiintyvän rautakarbonaattimalmin kauppa-arvosta. (Teknillinen aikakauslehti, 1936, v. 26, no. 5-6, p. 233-35) **Title tr.:** Potential value of the iron carbonate ores occurring in the bogs of northern Finland.

Contains results of a chemical study of the iron carbonate occurring in the bogs in Lapland. The appearance, possible abundance and easy reduction of these ores indicate that their working ought to be profitable.

**Copy seen:** DLC.

**20024. AASGARD, G.** Svalbard etter krigen. (Polarboken 1949, p. 27-52, illus., 2 maps) **Title tr.:** Svalbard after the war.

The damage suffered during World War II by the coal mines, quarries, power stations, administration buildings, etc., on Svalbard is reviewed, and the reconstruction work of the post-war period (1945-49) is described. Coal production rose from 6,007 tons in 1945 to 428,434 tons in 1948. Data on the Russian production and population on Svalbard are presented. The center of Russian activities is Pyramiden, which has a consulate, new administration buildings, and a Diesel power station. The administrative seat of the archipelago is Longyearbyen, where the larger part of the Norwegian population resides.

**Copy seen:** CaMAI.

**20025. ABBOT, CHARLES GREELEY, 1872-** . Do volcanic explosions affect our climate? (National geographic magazine, 1913, v. 24, p. 181-98, diagr., photos., tables)

"General popular article discussing numerous volcanic eruptions (from Hecla,

Iceland, 1783, to Katmai, 1912), which had ejected vast quantities of volcanic dust into the atmosphere. Diagram shows variations in solar radiation and in earth's temperature: 1880-1910. Author believes volcanic dust does influence climate."—*Meteorological abstracts and bibliography*, June 1950, v. 1, no. 6, p. 366

**Copy seen:** DWB.

**20026. ABBOT, CHARLES GREELEY, 1872-** , and F. E. FOWLE. Volcanoes and climate. (Smithsonian Institution. Smithsonian miscellaneous collections, 1913, v. 60, no. 29, 24 p., 3 figs., 6 tables)

"Effects given of the haze believed to have resulted from the Katmai eruption, June, 1912, on the quantity and quality of solar radiation as determined by measurements, and also the effect which the presence of the haze and that of similar occurrences in former years (including Krakatoa) appears to have had on the climate of the earth."—*Meteorological abstracts and bibliography*, June 1950, v. 1, no. 6, p. 366.

**Copy seen:** DLC.

**20027. ABERCROMBY, JOHN, 1841-1924,** and A. GENETZ. The earliest list of Russian Lapp words. (Suomalais-ugrilainen seura. Aikakauskirja, 1895, v. 13, no. 2, p. 1-10)

Contains 95 words taken down in 1557 by an Englishman, Captain Borough, and first published in 1589. The words were taken from 16 natives, living on the Jakonga River, who visited aboard Borough's ship. Some of them could speak Russian. Appended (p. 8-10) are remarks by A. Genetz stating that the words were apparently taken from the Kildin Lapps, and that their language shows very little change since that time.

**Copy seen:** DLC; InU.

**20028. ABOL', I. P.** Tractive performance of the KT-12 tractor on snow trails, translated from Lesnaya promyshlennost' ('The logging industry' (USSR)), 1951, pp. 7-8, by E. R. Hope. Ottawa, Scientific Information Center, DRB Canada, 7 August 1951. T37R. 61. reproduced from typewritten copy.

Some results of tests carried out by Central Research Institute for Mechanization and Use of Power in Logging Operations. Tests, carried out on three types of bush snow-trails, show changes required in (1) caterpillars, (2) construction of the KT-12 for better load distribution, (3) curves and surface of trails.

**Copy seen:** CaMAI.

**20029. ABRAMOV, K. G.** Okhrana prirody i dal'nevostochnye zapovedniki. (Akademii nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1938. no. 30 (3) p. 265-71) *Title tr.:* Far Eastern reserves and their role in the preservation of nature.

*Contains* a discussion of the preservation of natural resources in the Far Eastern region and descriptions of the preserves and sanctuaries in the Sikhote Alin region, and of "Kronoki," i. e. Kronotskiy zapovednik, a preserve of about 3,200,000 acres on the eastern coast of the Kamchatka Peninsula (54°20'-55°15' N. 159°41'-162°10' E.); data on their activity and history of their development. *Copy seen:* MH-A.

**20030. ABRAMOVICH-BLĚK, SERGEĬ IVANOVICH.** Zapiski gidrografa. Kniga pervaya. Zemlia i ljudi, IASSR—1933. [Leningrad] Izd-vo pisatelei v Lenin-grade [1934]. 261 p. *Title tr.:* Notes of a hydrographer. Book 1. Land and peoples, Yakut A. S. S. R., 1933.

*Contains* observations on the life and people of Yakutia, made during extensive travels of the author. The relation between climate, economy and social conditions is stressed; achievements of the Soviet era, and attitudes of the anti-Revolutionaries are noted; the contrast between the old and the new regimes is emphasized. *Copy seen:* DLC.

**20031. ABS, OTTO AUGUST HANS, 1891-** . Hämatologische Befunde von Spitzbergen; ein Beitrag zur Frage der Polaranämie. (Zeitschrift für klinische Medizin, 1932. v. 120, p. 213-29, tables) *Title tr.:* Hematological conditions in Spitsbergen; a contribution to the problem of polar anemia.

*Contains* report on material collected in 1922-24 and especially on that of 1926, also corroborated from another source. Red blood-cell counts, and hemoglobin determinations were made, and the color index of the blood calculated from them. The so-called polar anemia was found to be an excessive drop in the normal annual fluctuation of hemoglobin. The cause of it (in addition to poor diet and disease) seemed to be the extreme conditions of light. Children are apt to develop the disease more easily than adults, but severe cases are observed even in men. Bibliography (13 items).

*Copy seen:* DSG.

**20032. ADAM, C. I.** The Bathurst Inlet patrol. (RCMP quarterly, July 1950. v. 16, no. 1, p. 12-25, illus., fold. map)

*Contains* account of police investigation of the murder of two white men, H. V. Radford and T. G. Street, June 1912, by Eskimos at Bathurst Inlet. The trip of two police officers from Baker Lake to Bernard Inlet, Mackenzie District, and return 1917-18 is described; the evidence collected, and decision not to prosecute are noted. *Copy seen:* CaMAI.

**20033. ADAMENKOV, A. A.** Opyt betonirovaniia oblisovki kanala v zimnee vremia. (Gidrotekhnicheskoe stroitel'stvo, Jan. 1952. v. 21, no. 1, p. 18-19, diags.) *Title tr.:* An experiment in lining canal surfaces with cement during the winter season.

*Contains* a description of an electric heating method applied (in preference to two others mentioned) to concrete canal lining 12 cm. thick, at temperatures as low as -22° C. Preparation of the concrete mixture, its transportation and heating, application, electric heating after application, etc., are described in detail.

*Copy seen:* DLC.

**20034. ADAMKIEWICZ, GEORGE.** If Alaska were still Russian. (Dalhousie review, Jan. 1948. v. 27, p. 468-76)

Brief review of Russian colonization and exploitation of Alaska, its purchase by the United States in 1867 and its strategic importance today.

*Copy seen:* DLC.

**20035. ADAMOV, ARKADIĬ. G. I.** Shelikhov, zamechatel'nyi russkii moreplavatel' i issledovatel'. Stenogramma publichnoi lektsii, pročitannoi v Moskve. Moskva [Pravda] 1951. 30 p. port., map. *Title tr.:* G. I. Shelekhov, a remarkable Russian seaman and explorer. Stenograph of a public lecture delivered in Moscow.

*Contains* an outline (for the Society for dissemination of political and scientific information) of the life and explorations of Grigorii Ivanovich Shelekhov, 1747-1795, including his voyage from Okhotsk to Bering Island in the summer of 1783, thence to Kodiak Island in 1784; his (and others') subsequent activities in trade and settlement in Russian America. *Copy seen:* DLC.

**20036. ADAMOV, ARKADIĬ.** Pervye russkie issledovateli Al'jaski. Posobie dlia

uchitelei srednei shkoly. Moskva, Gos. Uchebno-pedagogicheskoe izd-vo Ministerstva prosveshcheniia RSFSR, 1950. 124 p. illus., maps (1 fold.) *Title tr.:* The first Russian explorers of Alaska. A manual for high school teachers.

*Contains* a brief introductory chapter on Russian exploration generally and in America. Then follow chapters on four notable explorers and administrators of Russian America, their activities and achievements: Aleksandr Baranov and his associates (p. 13-44); Aleksandr Kashevarov (p. 45-72); Lavrentii Zagoskin (p. 73-104); Ruf Serebrennikov and exploration of the Copper River (p. 105-122). Includes numerous illustrations, some evidently reproduced from 19th century narratives cited at end.

*Copy seen:* DLC; MH.

**20037. ADAMOV, ARKADIĬ.** Russkie na Shpitsbergene. (Znanie-sila, Jan. 1952. v. 23, no. 1, p. 26-27, illus.) *Title tr.:* The Russians on Spitsbergen.

*Contains* a popular account of Russian activities on West Spitsbergen as from the beginning of the 15th century; notes on the expedition of Chichagov 1764-66, of the Swedish-Russian scientific parties 1898-1902, of Rusanov (1912); recent economic and political problems of Spitsbergen.

*Copy seen:* DLC.

**20038. ADAMOVA, A. A., and others.** Issledovanie konservov, khranivshikhsia v Arkteke neskol'ko desiatkov let. (Gigiena i sanitariia, July, 1950, no. 7, p. 28-29) *Other authors:* S. KH. Ginzburg, and M. A. Lebedeva. *Title tr.:* A study of tinned food left in the Arctic for several decades.

*Contains* a note on a chemical examination of 10 foreign and Russian cans of food left behind by various (including Vil'kifskii) expeditions. Two cans were found to be not hermetic and were excluded from further study; three showed excessive amounts of lead; preserved fat was completely spoiled; some contents were useable; no bacteriological examination was made.

*Copy seen:* DLC.

**20039. ADAMS, ANSEL EASTON, 1902-** "The great land." (Sierra Club bulletin, June 1950. v. 35, no. 6, p. 12, 12 plates)

Brief note accompanying 12 photographs of Alaska, made under a Guggenheim Fellowship project (photographs of national parks and monuments).

*Copy seen:* DGS.

**20040. ADAMS, K. T.** Station marks in Alaska. (U. S. Coast and Geodetic Survey. Journal, Dec. 1951. no. 4, p. 154-55)

"Methods for improving the degree of permanence of station marks in Alaska are presented. The preference for settings for permanent marks is given, and important considerations for marking stations are indicated. Pipes up to 6 ft. in length are recommended for regions where steam jets are practicable for sinking the pipe into permafrost. Heavy chisel point digging bars can be used if steam jets are not available."—SIPRE.

*Copy seen:* DLC.

**ADAMS, RAYMOND D.,** *see* Denny-Brown, D., & others. Pathology injury to nerve. 1945. No. 21423.

**20041. ADAMSON, JAMES DOUGLAS, 1890-** , and others. Poliomyelitis in the Arctic. (Canadian Medical Association. Journal, 1949. v. 61, p. 339-48, illus., map, tables) *Other authors:* J. P. Moody, A. F. W. Peart, R. A. Smillie, J. C. Wilt, and W. J. Wood.

*Contains* in this report on a winter (1948-49) epidemic among the Eskimos of the Canadian Eastern Arctic: data on the locale, demography, habits and hygiene, epidemiology, age and sex incidence, clinical factors, treatment, virus studies. The epidemic occurred in the depth of an unusually cold winter and resulted in great devastation, killing in the Chesterfield area four percent of the total population and paralyzing 14 percent. All ages except those under 3 were affected; spread apparently took place through clinically healthy carriers; the epidemic has been shown by monkey inoculations to be due to a poliomyelitis virus. Bibliography (5 items). This paper was listed previously in *Arctic Bibliography*, No. 49. *Copy seen:* DSG.

**20042. ADOLPH, EDWARD FREDERICK, 1895-** , and J. W. LAWROW. Acclimatization to cold air; hypothermia and heat production in the golden hamster. (American journal of physiology, July 1951. v. 166, no. 1, p. 62-74, 5 fig.)

*Contains* an account of a study of low temperature tolerance and heat exchange during hypothermia of the hamster (which survives low temperatures and does hibernate), supplemented by comparison of conditions in the rat, which does not survive low temperatures. Rates of cooling in standard circumstances;

oxygen consumption at rest and during cooling; rate of heart beat and the relation of breathing to oxygen consumption, as well as some results of acclimatization were investigated. Paralysis of heat production by chilling and rates of heat loss were less in hamsters than in rats. Bibliography (22 items).

*Copy seen:* DLC.

**20043. ADOLPH, EDWARD FREDERICK, 1895-**, and **G. W. MOLNAR.** Exchanges of heat and tolerances to cold in men exposed to outdoor weather. (American journal of physiology, July 1946. v. 146, p. 507-537, diagsr.)

"Men nearly nude were exposed outdoors to environments ranging from uncomfortably warm to bitterly cold. Their responses over periods of one to four hours were measured in terms of pulse rates, arterial pressures, deep and superficial temperatures, heat exchanges (production, evaporative loss, sensible exchange, and storage), ventilation rate, urinary flow, and blood concentrations." Author gives full discussion of the investigation and results and a useful table of equivalent increments of air temperature for sunshine, wind, work, and clothing. Bibliography (25 items).

*Copy seen:* DLC.

**20044. ADOLPH, EDWARD FREDERICK, 1895-**. Lethal limits of cold immersion in adult rats. (American journal of physiology, Dec. 1948. v. 155, no. 3, p. 378-87, 7 fig.)

Contains account of a study aimed to ascertain "what conditions limit an animal's endurance of immersion in cold water." Median lethal temperature and colonic temperatures are given. Rates of cooling were not significant factors in survival. Age over one month, season, size, sex, administration of glucose, cortin, digitalis or oxygen, deprivation of food and water, and acclimatization to cold, all failed to modify the lethal temperature. Results of incomplete rewarming are also discussed. Bibliography (10 items).

*Copy seen:* DLC.

**20045. ADOLPH, EDWARD FREDERICK, 1895-**. Oxygen consumptions of hypothermic rats and acclimatization to cold. (American journal of physiology, June 1950. v. 161, no. 3, p. 359-73, 7 fig.)

Contains a report on a study (with assistance of J. W. Lawrow) aimed to determine whether acclimatization to cold involves a shift in the relation between

heat production and body temperature, by recording the oxygen consumption during body cooling and rewarming. Acclimatization to cold was found in the increase of resting oxygen consumption after a sojourn in air of 5° C. for 5-25 days; maximal oxygen consumption, and decrease of oxygen consumption with decrease of colonic temperature, were not modified by preceeding cold acclimatization. Bibliography (23 items).

*Copy seen:* DLC.

**20046. ADOLPH, EDWARD FREDERICK, 1895-**. Responses to hypothermia in several species of infant mammals. (American journal of physiology, July 1951. v. 166, no. 1, p. 75-91, 5 fig.)

Contains a report on a study of a series of laboratory animals, made at various postnatal ages, with respect to lower lethal temperature limits, heart-beat frequencies, and breath frequencies. Lethal temperatures that could be endured became higher with increased age in all species; heart-beat frequencies and breath frequencies bore diverse relations to body temperatures at different postnatal ages; isolated, perfused hearts showed relations to temperature different from those *in situ*. The adult pattern of responses to hypothermia was found to emerge from properties present at birth after a series of modifications and transitions occurring at specific ages. Bibliography (27 items).

*Copy seen:* DLC.

**20047. ADOLPH, EDWARD FREDERICK, 1895-**. Some differences in responses to low temperatures between warm-blooded and cold-blooded vertebrates. (American journal of physiology, July 1951. v. 166, no. 1, p. 92-103, 5 fig.)

Contains a study on the relation of, heart-beat frequency, breath frequency and oxygen consumption to body temperatures in representatives of the five classes of vertebrates. Heart-beat frequencies showed different patterns and relations to temperature in the warm-blooded as compared with the cold-blooded forms; studies with isolated hearts showed that some of these differences were inherent in the tissues even after their separation from the organism. The differentiation in breath-frequencies was less decisive between the cold- and warm-blooded groups. Nervous and endocrinal systems showed to have influences, especially at higher temperatures, and particularly in the oxygen consump-

tion of warm-blooded animals. Bibliography (55 items). *Copy seen:* DLC.

**20048. ADOLPH, EDWARD FREDERICK, 1895-**, and **G. W. MOLNAR.** Temperature gradients in men exposed to cold. (Federation proceedings, Mar. 1946. v. 5, p. 1)

Abstract of observations of temperature differences in deep tissues and at body surface, with conclusion that by "using its outer shell as insulation for the deep tissues, the human body maintains large temperature differences for as long a time as heat can be produced at fatiguing rates." *Copy seen:* DLC.

**ADOLPH, EDWARD FREDERICK, 1895-**, see also Molnar, G. W., & E. F. Adolph. Heat exchanges man cold environments. 1946. No. 24429.

**20049. ÄIMÄ, FRANS GUSTAF, 1875-1936,** and **T. ITKONEN.** Bericht über eine linguistische Forschungsreise zu den Lappen von Petsamo. (Finnisch-ugrische Forschungen. Anzeiger, 1928. Bd. 19, no. 1-3, p. 93-94). *Title tr.:* Report on a linguistic exploring expedition to the Lapps of Petsamo.

Both scholars, sponsored by Finno-Ugric Society, made an expedition July-Aug. 1927, to the village of Kolttaköngäs at the mouth of the Patsjoki River where about 50 Lapps were living. Some 600 new basic Kola Lapp words and 25 typical tales and legends were collected.

*Copy seen:* DLC; InU.

**20050. ÄIMÄ, FRANS GUSTAF, 1875-1936.** Eine Gruppe von Vokalwechsel-fällen im Inarilappischen. (Finnisch-ugrische Forschungen, 1914. Bd. 14, p. 1-11) *Title tr.:* A group of cases with changeable vowels in Inari Lapp language.

The Inari<sup>2</sup> dialect differs from other Lapp dialects to such a great degree that the neighboring Lapps cannot understand it. However, it is not a new language, but a dialect midway between Russian and Norwegian Lappish, and closer to the eastern or Kola Lapp dialects than to the western ones.

*Copy seen:* DLC; InU.

**20051. ÄIMÄ, FRANS GUSTAF, 1875-1936.** Matkokertomus Inarin Lapista. (Suomalais-ugrilainen seura. Aikakauskirja, 1902. v. 20, no. 4, p. 10-25) *Title tr.:* Report of a trip to the Lapps of Inari.

Contains account of a seven-month expedition in 1900-1901, sponsored by the

Finno-Ugric Society to the Lapps around Inari town and lake. Seven thousand words were collected, also 40 tales, several songs, proverbs and superstitions. Summary in French, p. 47-48.

*Copy seen:* DLC; InU.

**20052. ÄIMÄ, FRANS GUSTAF, 1875-1936,** and **B. COLLINDER.** Zur Lautkombinationslehre des Lappischen. (Finnisch-ugrische Forschungen. Anzeiger, 1928. Bd. 18, no. 1-3, p. 36-81) *Title tr.:* On the theory of combination of sounds in the Lapp language.

Contains two extensive reviews of Eliel Lagercrantz's work *Strukturtypen und Gestaltwechsel im Lappischen*, 1927 (Arctic Bibliography No. 9563). These reviews give a negative judgment on Lagercrantz's work as containing some new material, but having many untenable conclusions. *Copy seen:* DLC; InU.

**20053. AEROMAGNETIC SURVEYS Ltd.** Aeromagnetics in exploration, Toronto, Canada. 195? 4 illus. leaflets in folder.

Contains advertising material on the Photographic Survey Corp. airborne magnetometer, its construction and use, etc. *Copy seen:* CaMAI.

**20054. ÄYRÄPÄÄ, AARNE,** and **MAT-TI SAURAMO.** Von den ältesten Niederlassungen in Finnland. (Suomalainen tiedeakatemia. Sitzungsberichte, 1947, pub. 1949, p. 135-43) *Title tr.:* On the oldest settlements in Finland.

Contains two lectures on Finland's archeology: the so-called Suomusjärvi culture (mesolithic tools of the Ancylus period, 5000-6000 B. C.) is represented in several places and reaches to northern Finland. *Copy seen:* DLC.

**20055. AFANAS'EV, G.** Zanätia i zhizn' sakhalinskikh évenkov. (Taiga i tundra, 1928, no. 1, p. 38-42) *Title tr.:* Occupation and life of the Évenki in Sakhalin.

Contains description of the life of the reindeer-breeding Tungus, also their hunting and fishing, use of dogs for hunting, etc.; prices for furs in 1925. As a result of skirmishes and speculation after 1920, the Tungus lost their weapons and reindeer. They suffered also from exploitation by Gostorg (state trading institution). *Copy seen:* DSL.

**20056. AFANAS'EV, V. A.** Alkaline rocks of the Ozeraya Varaka of the Khabozero region (south-western part of

the Kola Peninsula). (Akademiia nauk SSSR. Comptes rendus (Doklady), 1939. n. s., v. 25, no. 6, p. 508-512, tables) Detailed mineralogical and chemical analysis. **Copy seen:** DLC.

**20057. AFANAS'EV, V. A.** Olivinites of the Khabozero region (south-eastern part of the Kola Peninsula). (Akademiia nauk SSSR. Comptes rendus (Doklady), 1939. n. s., v. 25, no. 6, p. 513-16, tables)

Geological, mineralogical and chemical analysis. **Copy seen:** DLC.

**20058. AFANAS'EV, V. P.** Parazito-fauna promyslovyykh mlekopitayushchikh Komandorskikh ostrovov. (Leningrad. Universitet. Uchenye zapiski, 1941. no. 74. Seriya biol. nauk. vyp. 18, p. 93-117, illus.) **Title tr.:** Parasitic fauna of commercial mammals of the Commander Islands.

**Contains** brief notes on the geography and terrestrial and marine fauna of the Commander Islands in Bering Sea; ecological data on the blue arctic fox *Alopex beringensis*, the fur seal, *Callorhinus ursinus*, and sea-otter, *Synhydra lutris*; study of their parasitic fauna with descriptions of the parasites, their origin, distribution on these islands and prophylactic measures; two new genera and three species of trematodes are described. Summary in German.

**Copy seen:** MH-Z.

**20059. AFANAS'EVA, ANTONINA.** Nekotorye svadebnye obychai evenkov Sakhalina. (Talga i tundra, 1928, no. 1, p. 36-37) **Title tr.:** Some wedding customs of the Evenki [Tungus] in Sakhalin.

**Contains** notes on the former *tóri*, bride price paid in furs, reindeer and money; the wedding feast, dowry; service for a bride, instead of *tóri* payment, etc. The author is a Tungus woman.

**Copy seen:** DSI.

**20060. AFONSKAÏA, M. O.** Pomoshch' shkolam i kul'turnym uchrezhdeniïam Kraïnego Severa. (Leningrad. Universitet. Vestnik, Sept. 1951. v. 6, no. 9, p. 88) **Title tr.:** Service to schools and cultural institutions of the Far North.

**Contains** an account of the aid rendered by the staff of the Faculty of the Peoples of the North, especially the chairs of languages. Books in the field of education and methodology were written, translated or edited in Evenki (Tungus), Koryak, Eskimo and other northern

languages; translations of literature on politics and art were also prepared; the titles of some of these books are given.

**Copy seen:** DLC.

**20061. AFONSKAÏA, M. O.** Studenty fakul'teta narodov Severa, v pomoshch' shkole. (Leningrad. Universitet. Vestnik, Nov. 1951. v. 6, no. 11, p. 125) **Title tr.:** Students of the Faculty of the Peoples of the North, the service school.

**Contains** brief account of the work of students and graduates in translating literary, educational, social and political works into Chukchi, Eskimo and other northern languages. Titles and translators are cited by name. One student is noted as writer and poet in Chukchi.

**Copy seen:** DLC.

**20062. AGAFANOV, M. I.** Mekhanizatsiia vodosnabzheniia na lediannykh dorogakh. (Lesnoe khozïfstvo, Dec. 1931, no. 12, p. 14-17, diagr.) **Title tr.:** Mechanization of water supply on ice roads.

**Contains** remarks on the importance of regular water supply for ice roads. The availability of ground water in various soils and forests is discussed and a detailed outline given of a mechanized water supply system for ice roads.

**Copy seen:** DLC.

**20063. AGRANAT, G. A.** Grenlandiia. Pod red. I. A. E. Segala. Moskva, Gos. izd-vo geogr. lit-ry, 1951. 44 p. text maps. **Title tr.:** Greenland. Edited by I. A. E. Segal.

**Contains** a popular but comprehensive sketch of the island; its physical geography, the ice- and snow-cap, icebergs, ice-free areas, geology, climate, flora and fauna; history of Greenland, its population and settlements, economic conditions (hunting, fishing, mining, "agriculture," etc.); remarks (p. 37-44) on Greenland as a U. S. military base.

**Copy seen:** DLC.

**20064. AGRANAT, G. A.** Kanadskii Sever. (Vokrug sveta, Aug. 1952. no. 8, p. 18-24, illus. map) **Title tr.:** The Canadian North.

**Contains** a popular and highly illustrated outline of the region, its limits, climate, natural resources and population. Noted particularly are the Klondike gold rush, petroleum exploitation on the lower Mackenzie, the Mackenzie valley and its developmental possibilities, animals and

fur production, the Eskimos and Indians, their life and economy.

**Copy seen:** DLC.

**20065. AGRANAT, G. A.** Sovremennaya Grenlandiia. (Vsesoiuznoe geograficheskoe obshchestvo. Izvestiia, 1950. t. 82, no. 2, p. 151-62) **Title tr.:** Present-day Greenland.

Deals with the changes which have taken place since the beginning of World War II: landings by the Germans and their establishment of weather bases; subsequent occupation by United States forces; establishment of air and other war bases; meteorological stations; economic advances in fisheries and mining under American influence. Bibliographical footnotes.

**Copy seen:** DLC.

**20066. AGRANOVSKIĬ, I.** Za pol'arnym krugom. (Krest'ianka, Apr. 1952. 30 god, no. 4, p. 5-8, illus.) **Title tr.:** Beyond the Arctic Circle.

Contains an account of a trip to Kola Peninsula particularly to Lovozero, with comment on the condition of the population in pre-revolutionary times and changes subsequently; the club; the dairy farm; potato and vegetable growing; reindeer breeding, etc.

**Copy seen:** DLC.

**20067. AGRELL, IVAR, 1912-** . The collembolus in nests of warm-blooded animals with a method for sociological analysis. Lund, 1945. 19 p. (Lund. Universitet. Arsskrift, Ny följ, Avd. 2. Bd. 41, nr. 10)

Contains results of investigation of collembolan material from 80 nests of moles, water-voles, mice, squirrels, etc., including some (mice) taken in Lapland. Discussion of environmental factors: influence of light, temperature and humidity on composition of collembolic fauna in different nest-types and tabulation of species' constancy with extensive remarks on faunal and habitat associations.

**Copy seen:** DLC.

**20068. AGRELL, IVAR, 1912-** . Kritisches Verzeichnis der schwedischen Collembolen mit einigen Neubeschreibungen und tiergeographischen Erörterung. (Opuscula entomologica, 1943. Bd. 8, häft. 3-4, p. 123-37, illus.) **Title tr.:** A critical list of Swedish Collembola with descriptions of some new species and zoogeographic discussion.

Contains a list of 148 collembolus found in Sweden, critical notes on some of them,

synonymy, descriptions of three new species, including *Proisotoma pseudominuta* n. sp. from Torne Lappmark, and a discussion of geographic distribution of Collembola in Sweden, with statistical data and comparison with distribution of other insect orders.

**Copy seen:** MH-Z.

**20069. AGRELL, IVAR, 1912-** . Über *Hypogastrura bengtssoni* Ågren. (Entomologisk tidskrift, 1932. Årg. 53, häft. 2-3, p. 127-32) **Title tr.:** On *Hypogastrura bengtssoni* Ågren.

Contains a critical study of a collembola, *Hypogastrura bengtssoni*, first described from four specimens collected in Lycksele Lappmark; includes a description of *H. bengtssoni fennica* n. var. found in Muonionniska region of northern Finland (68° N.) and notes on other geographic races and their distribution (Estland, i. e. Baltic region, Siberia, Iceland).

**Copy seen:** MH-Z.

**20070. AGRELL, IVAR, 1912-** . Zur Kenntnis der schwedischen Collembollen mit Beschreibung von vier neuen Arten und einigen Varietäten. (Opuscula entomologica, 1939. Bd. 4, häft. 3-4, p. 159-68, illus.) **Title tr.:** A contribution to the knowledge of Swedish Collembola with descriptions of four new species and some varieties.

Contains a list of 23 Swedish species of Collembola (four new), including German diagnoses of *Anurida alpina*, *Folsomia brevicauda* and *Proisotoma abiskoensis* n. spp., one new variety and seven other species native to Swedish Lapland.

**Copy seen:** MH-Z.

**20071. AGRELL, IVAR, 1912-** . Zur Ökologie der Collembolen; Untersuchungen im schwedischen Lappland. Lund, Entomologiska sällskapet, 1941. vi, 236 p. illus., diag. (Opuscula entomologica. Supplementum 3) **Title tr.:** On the ecology of collembolus; investigations in Swedish Lapland.

Contains the results of ecological study of collembolus carried out by the author in the summers of 1933-39 in Abisko, Kebnekaise and Sarek Mts. in Torne Lappmark, with data on geography and climate of the regions, methods of study, the various biogeographic regions and their fauna; characteristics and comparison of Collembola fauna of these biogeographic zones, competition in insect communities, environmental factors (temperature, moisture, light, etc.), yearly occur-

rence of various collemboles (notes on 30 species); tables of phenological data (p. 170-90); list of faunal analyses from various habitats (moss and lichen vegetation) for all explored regions (p. 191-224); discussion of results and a bibliography (95 items). **Copy seen:** MH-Z.

**AGRELL, IVAR PER SIGURD**, see Agrell, Ivar, 1912-.

**20072. AGRIOPOULO, A. I.** Zametki po sistematike domashnei myshi (*Mus musculus* L.) (Mammalia). (Akademika nauk SSSR. Zoologicheskii institut. Trudy, 1932, pub. 1933. t. 1, vyp. 2, p. 223-28) **Title tr.:** Systematic remarks on the domestic mouse (*Mus musculus* L.) (Mammalia).

Contains preliminary Russian and German diagnoses of some new forms of the domestic mouse (*Mus musculus*), including *M. musculus vinogradovi* n. subsp., native to central Yakutia, eastern Siberia; and a survey of geographic distribution of mice in U. S. S. R.

**Copy seen:** MH-Z.

**20073. AHLBERG, OLOF VIKTOR, 1893-** Beiträge zur Deutung der Zetterstedtschen Thrips-arten. (Entomologisk tidskrift, 1918. Årg. 39, häft 2, p. 140-42) **Title tr.:** Contributions to the identity of Thrips species of Zetterstedt.

Contains a critical revision of *Thrips picipes*, *T. fungi* and *T. physopus*, three species of Thysanoptera, described by Zetterstedt in his *Insecta lapponica*, 1840, and their modern interpretation.

**Copy seen:** MH-Z.

**20074. AHLBERG, OLOF VIKTOR, 1893-** Bemerkungen über neue oder seltene schwedische Thysanopteren nebst Verzeichnis der schwedischen Arten. (Entomologisk tidskrift, 1925. Årg. 46, häft 3, p. 152-56, text map) **Title tr.:** Notes on some new or rare Swedish Thysanoptera with a list of Swedish species.

Contains a list of 15 thrips (Thysanoptera) new or rare to the fauna of Sweden, including *Aelothrips villatus* from Norrbotten and *Cryptothrips nigripes* found in Lapland, and a synopsis of 72 thysanopterans known in Sweden, with brief data on distribution (provinces); includes 17 species occurring in Lapland.

**Copy seen:** MH-Z.

**20075. AHLBERG, OLOF VIKTOR, 1893-** Thysanoptera. (In: Brinck,

P. S. V., and K. G. Wingstrand. Mountain fauna of Virihaure, 1949-51, pt. 2, p. 132)

Contains notes on two thrips, *Taenothrips vulgatissimus* (on *Angelica archangelica*) and *Thrips (palustre?)*, collected on a Salix-swamp in the Virihaure area of Lule Lappmark, northern Sweden.

**Copy seen:** MH-Z.

**20076. AHLMANN, HANS WILHELMSSON, 1889-** De franska polarexpeditioner. (Ymer, 1948. v. 68, p. 231-33)

"A brief survey of recent French polar expeditions in the Arctic and Antarctic. The Greenland expedition under the leadership of Paul-Émile Victor has a comprehensive program of surveying a section across the Greenland ice; seismic measurements of ice depth; studies of ice ablation, accumulation, density, and temperature; and of climatic and meteorological observations at a station on the ice (75° N. and 40° W.); as well as cosmic ray and ionospheric measurements; meteoric and biological studies. The meteorological program included radiosonde observations and the station is to be continued for several years, being supplied by parachute and airplane. The station reports three times a week to Paris by radio."—*Meteorological abstracts and bibliography*. Oct. 1950, v. 1, no. 10, p. 634-35. **Copy seen:** DLC.

**20077. AHLMANN, HANS WILHELMSSON, 1889-**, and E. G. DROESSLER. Glacier ice crystal measurements at Kebnekajse, Sweden. (International Geodetic and Geophysical Union. Association of Scientific Hydrology. Assemblée générale d'Oslo, 1948. Procès-verbaux des séances, t. 2, Travaux de la Commission de la Neige et des Glaciers, pub. 1950? p. 221-27, illus.)

Contains note on method used in the humid conditions of Swedish Lapland to record and measure ice crystals, with tabular results; also some discussion of the crystallographic structure of ice in various parts of glaciers on the Kebnekaise massif.

"Impressions of ice crystals were obtained using paper towelling and a mixture of clay and a brown powder stain insoluble in water. The mixture was rubbed on the ice surface, the paper was pressed into close contact with the treated area. The paper was removed and analysed when crystal outlines appeared. Frequency diagrams of crystal

sizes and the sizes of crystal diameters were calculated for ice samples collected from various parts of the glacier. It is shown that an average value of the crystal size in any measured area is not representative due to the large variation and distribution. The largest individual crystals were found in dead ice."—SIPRE.

Also pub. in *Journal of glaciology* Mar. 1949. (*Arctic Bibliography*, No. 109A).  
**Copy seen:** DGS.

**20078. AHLMANN, HANS WILHELMSSON, 1889- .** Glacier variations and climatic fluctuation. Washington, 1952. 91. mimeographed.

Contains text of the American Geographical Society's The Bowman Memorial Lecture, delivered before the International Geographical Union meeting, Washington, Aug. 13, 1952. On the basis of conditions in Scandinavia and Iceland with comparisons to those of North America, author develops the theme that "glaciers, being conditioned by climatological factors, register changes of climate by their variation." He presents data on the ice budget of Storglaciär, Kebnekaise Mts. in Swedish Lapland compared with other studied glaciers, indicating a recession lasting from 1908 till about 1945. The warm climatic trend in the Northern Hemisphere especially in the Arctic and its causes, conditions in Alaska, changes in animal and plant distribution due to warmer winters, conditions in Iceland, effects of increased temperature on the water régime and permafrost, glacier and climatic conditions since about 8000 B. C., are all dealt with in more or less detail.  
**Copy seen:** CaMAI.

**20079. AHLMANN, HANS WILHELMSSON, 1889- .** Klimaschwankungen der letzten Jahre. (Naturwissenschaftliche Rundschau, 1951. 4:4, p. 160-63) **Title tr.:** The present climatic fluctuation.

"The recent climatic amelioration in the Arctic is due to increased atmospheric circulation, the cause of which is unknown. Describes retreats of glaciers, changes of oceanic circulation and poleward extension of fish, land animals and vegetation."—*Meteorological abstracts and bibliography*, July 1951. v. 2, no. 7, p. 580. Summary by Arthur Kühn, was published in *Geographical journal*, 52:165, 1949.  
**Copy seen:** DWB.

**20080. AHLMANN, HANS WILHELMSSON, 1889- , and others.**

Scientific investigations in the Kebnekajse massif, Swedish Lapland. I. General outline of the investigations in 1946-51. II. The petrology and tectonics of the Kebnekajse region and their morphological importance. III. Kartografiska arbeten i Kebnekajse. IV. Det lokala triangelnätets i Kebnekajse anslutning till riksnätet. Syd- och nordtopparnas höjd över havet. (*Geografiska annaler*, 1951. Årg. 33, p. 90-142, illus. maps (incl. 2 fold.), diagrs.)

**Other authors:** H. J. Johansson and E. Woxnerud.

Contains (in the first paper, p. 90-94, by Ahlmann) an account of the research work conducted on the Storglaciär and Rabotsglaciär of the Kebnekaise massif (67°54' N. 18°30' E.). Its object was to study the general glaciological character of the massif, to determine the extent of glacial recession in as many previous years as possible, and to examine in detail the yearly material balance, or budget, of the two glaciers. The problems involved are presented in detail, as well as information on supporters of the work, personnel, buildings, equipment, etc.

In the second paper (p. 95-120) Harald J. Johansson gives a description of the region, general features of the stratigraphy and tectonics of the Scandinavian mountain range (in brief), and the Kebnekaise region (in detail); its dip conditions and fractures. Vegetation is discussed as a regulating factor of the morphological development, dependent on the climate and the chemical composition of the soil.

In the third paper (*Cartographic work in Kebnekajse*, p. 121-30, text in Swedish with English summary) Erik Woxnerud describes "the methods used in preparing a large-scale contour map of the Storglaciär by means of photogrammetry. Stakes were planted in the ice and snow to determine the amount of accumulation and ablation, and the rate of movement of the glacier surface. Triangulation of the stakes showed that the heights of most of them coincided exactly with the contours. Uses of the new map will include future determination of changes in the extent of the glacier."—SIPRE.

The fourth paper (p. 131-49) by Erik Woxnerud, is *The linking up of the local triangulation net in Kebnekajse (in the Tarfala valley) with the official geodetic*

net. The heights above sea-level of the Sydtopp and the Nordtopp. Text in Swedish with English summary.

**Copy seen:** DGS; DLC.

**AHLMANN, HANS WILHELMSSON, 1889-**, see also Troll, C. 25 years glacier research under Ahlmann. 1943. No. 26808.

**20081. AHLNER, STEN.** *Alectoria altaica* (Gyel.) Räs. und ihre Verbreitung in Fennoscandia. (Acta phytogeographica suecica, 1940. t. 13, Växtgeografiska studier tillägnade C. Skottsberg, p. 27-38, plate 3, text map) **Title tr.:** *Alectoria altaica* (Gyel.) Räs. and its distribution in Fennoscandia.

Contains critical notes and data on the distribution of a lichen, *Alectoria altaica*, in Fennoscandia, with a list of localities, including Åsele Lappmark in northern Sweden and Nordland in northern Norway; also notes on total distribution.

**Copy seen:** MH-A.

**20082. AHLNER, STEN.** Utbredningstyper bland nordiska barrträds-lavar. Uppsala, Almqvist & Wiksell, 1948. ix, 257 p. illus., 16 plates, text maps. (Acta phytogeographica suecica, 22) **Title tr.:** Expanding types of coniferous tree-lichens in Fennoscandia.

Contains an extensive study: discussion of material and methods of work, data on the biology, variability, distribution and expanding tendencies of 20 species of lichens growing on the bark of coniferous trees; their division into geobotanical groups (oceanic and continental elements); influence of man, viewpoints on the history of migration of these lichens, list of localities for each species (p. 147-216) including northern Norway, Swedish, Finnish and Russian Lapland. Bibliography (over 550 items). Summary in German, p. 217-38.

**Copy seen:** DLC; MH-A.

**20083. AHLQVIST, AUGUST ENGELBREKT, 1826-1889.** Eräästä sekakonsontanista Ostjakien kielessä. (Suomalais-ugrilainen seura. Aikakauskirja, 1886. v. 1, p. 86-89) **Title tr.:** On a mixed consonant in Ostyak.

A peculiar consonant in Ostyak speech is described here, the speaker apparently trying to say "t," actually utters a kind of "l," a sound later characterized as a spirantic "l." Corresponding sounds in Vogulian, Hungarian, and Finnish are indicated. **Copy seen:** DLC; InU.

**20084. AHLQVIST, AUGUST ENGELBREKT, 1826-1889.** Matotshkin shar, Jugorskij shar, Aunus. (Suomalais-ugrilainen seura. Aikakauskirja, 1888. v. 3, p. 126-27)

Contains explanations of these place names: (1) Matochkin Shar, the sound between the two islands of Novaya Zemlya, comes from the family name Matochkin; (2) in Yugorskij Shar, Jugor (Ugor) has the same meaning as the Zyryan Jögra, or Jogra, i. e. Voguls and Ostyaks. Ahlqvist has found the word shar in Zyryan with the meaning only of 'sound'; (3) the earlier form of Aunus was Agnis, probably to be read: Agnus.

**Copy seen:** DLC; InU.

**20085. AHLQVIST, AUGUST ENGELBREKT, 1826-1889.** Ueber die Kulturwörter der obisch-ugrischen Sprachen. (Suomalais-ugrilainen seura. Aikakauskirja, 1890. v. 8, p. 1-22) **Title tr.:** On the cultural words of the Ob-Ugric languages.

Thirty-three indigenous word-combinations for designating cultural objects are listed, and evidence deduced that the proper cultural words of Ob-Ugric languages derive from four sources: Samoyed, Tatar, Zyryan, and Russian.

**Copy seen:** DLC; InU.

**20086. AHLQVIST, AUGUST ENGELBREKT, 1826-1889.** Unter Wogulen und Ostjaken; Reisebriefe und ethnographische Mittheilungen. (Finska vetenskaps-societeten, Helsingfors. Acta Societatis scientiarum fennicae, 1885. v. 14, p. 133-308, 11 plates, 34 illus., fold. map) **Title tr.:** Among the Voguls and Ostyaks; letters from journeys and ethnographical information.

Contains letters from the author's three expeditions to the Ob', Irtysh, and Konda valleys to study the Ob-Ugrian peoples: (1) in 1858-59 to Pelym, Verkhne-Pelymsk, Sortingje (now Sartynya), Berezov and Obdorsk (now Salekhard), studying the Vogulian and Ostyakian languages, collecting lexical and grammar material; (2) in 1877 to Tobolsk and Berezov with student Emil Boehm as photographer, and another student, Ewald Bergroth, who collected fishes and insects for the Finnish Zoological Museum; (3) in 1880 up the Konda River to the Tyumen Lakes, visiting the Vogul village of Levush (i. e. Leushi, 60° N. 66° E.) accompanied by the botanist Eduard Wainio, and the zoologist Nicolai Sundman. The letters, informal in style,

relate the experiences of travel, describe the country traversed, its population, economic activities (Ob' fisheries) and resources (forests), etc. They contain informative notes on native peoples: Voguls on the Los'va and Sos'va Rivers, their occupation, dwellings, clothing, food, racial character, religion and beliefs, trade and native administration (p. 158-75); the Ostyaks of Obdorsk and their prince Taishin, owner of a ten thousand-head herd of reindeer, who dwelt in a skin tent in winter, and one of birch bark in summer (p. 181-82, 249-50); the Ostyak fishers on the Ob' River, their nets and boats (p. 185-86, 219); the Ostyak sacrificial places and idols hidden in the woods (p. 241); the wandering Zyryans on the lower Ob' (p. 241-44); annual fair at Obdorsk and the drinking of Samoyeds (p. 244-45); the Vogulian games (masked performances) and dances in Sortingje (p. 256-59); climate and vegetation around Sortingje (i. e. Sartynya, 63° N. 63° E.) and Samarovo (p. 260-61); the Konda-Voguls in the village of Levush, i. e. Leushi (p. 279-82). Most important is chap. 12 (p. 286-307) written after author's return home, summarizing his observations on: place names and names of Ugrian peoples, their physical appearance (with 24 photographic illus. of individuals which show also types of clothing), sex attitudes and marital life; religion, idols and sacrifices; women's handicrafts (specimen reproduced in color); cultural influence from the Tatars; time reckoning; family or property marks and signatures (specimens reproduced on plates 6-9), music and poetry (with six Ostyak melodies given on plate 10, texts of four songs noted in Obdorsk given in German translation, and 10 Vogulian and 12 Ostyakian riddles). Important are the numerous illustrations from sketches or photos made by G. W. Nummelin. Ahlqvist, whose journeys were sponsored by the Finnish government, brought home an extensive collection of objects of material culture for the Ethnographical Museum of the Finnish University.

**Copy seen:** DLC.

**20087. AHOLA, V. K.** Metsänhoito-oretreilyn näkemyksjä Lapin raukoilla rajoilla. (Metsä-Taloudellinen aikakauslehti, 1951. v. 66, no. 7-8, p. 203-204) **Title tr.:** Observations during a field trip of foresters in Finnish Lapland.

Notes on reforestation areas in Fin-

nish Lapland as observed on a field trip of advanced forestry students.

**Copy seen:** DA.

**20088. AHTIA, EDVARD VILHELM, 1867-** . Bibliographie der finnisch-ugrischen Sprach- und Volkskunde für das Jahr 1905. (Finnisch-ugrische Forschungen. Anzeiger, 1914. Bd. 14, no. 1-3, p. 1-304) **Title tr.:** Bibliography of Finno-Ugrie linguistics and folklore for 1905.

Includes works on the Lapps (p. 185-95), Zyryans (p. 201-209), Voguls and Ostyaks (p. 213-19). This is a continuation of an annual bibliography initiated in 1900 by E. N. Setälä, q. v.

**Copy seen:** DLC; InU.

**20089. AHTIA, EDVARD VILHELM, 1867-** . Bibliographie der finnisch-ugrischen Sprach- und Volkskunde für das Jahr 1906. (Finnisch-ugrische Forschungen. Anzeiger, 1915. Bd. 15, no. 1-3, p. 1-212) **Title tr.:** Bibliography of Finno-Ugrie linguistics and folklore for 1906.

Includes works on the Lapps (p. 150-63), Zyryans (p. 171-73), Voguls and Ostyaks (p. 175-82), also books published in Lapp language (p. 183-84).

**Copy seen:** DLC; InU.

**20090. AHTIA, EDVARD VILHELM, 1867-** . Bibliographie der finnisch-ugrischen Sprach- und Volkskunde für das Jahr 1907. Helsingfors, Suomalais-ugrilainen seura, 1929. 198 p. (Finnisch-ugrische Forschungen, Anzeiger, Bd. 20, no. 1-3) **Title tr.:** Bibliography of Finno-Ugrie linguistics and folklore for the year 1907.

Contains lists of books and papers with brief annotations, arranged according to ethnic group, with author index, including works on Lapps (p. 149-53), Zyryans (p. 156-58), Ostyaks and Voguls (p. 161-65).

**Copy seen:** DLC; InU.

**20091. AHTIA, EDVARD VILHELM, 1867-** . Bibliographie der finnisch-ugrischen Sprach- und Volkskunde für das Jahr 1908. (Finnisch-ugrische Forschungen, Anzeiger, 1935. Bd. 23, no. 1-3, p. 1-222) **Title tr.:** Bibliography of Finno-Ugrie linguistics and folklore for 1908.

Contains lists of current publications with occasional brief annotation, including works on Lapps (p. 166-71), Zyryans (p. 177-81), Ostyaks and Voguls (p. 182-86).

**Copy seen:** DLC; InU.

**20092. AHTIA, EDVARD VILHELM, 1867-** . Bibliographie der finnisch-ugrischen Sprach- und Volkskunde für die Jahre 1909-1912. Helsinki, Suomalais-ugrilainen seura, 1938. 471 p. (Finnisch-ugrische Forschungen, Anzeiger, 1938. Bd. 25, no. 1-3) *Title tr.:* Bibliography of Finno-Ugric linguistics and folklore for 1909-1912.

*Contains* (among others) about 152 items on the Lapps (p. 305-324), 134 on the Zyryans (p. 350-69), 108 on the Voguls and Ostyaks (p. 377-94).

*Copy seen:* DLC; InU.

**20093. AIKAWA, HIROAKI.** On the planktonology of Okhotsk Sea in autumn. (Japanese Society of Scientific Fisheries. Bulletin, Nov. 1933. v. 2, p. 175-82, chart-diagr., tables). Text in Japanese; summary in English.

On the basis of observations in 1928-29, and 1932, the author distinguishes three planktonic associations, carried by the waters of (1) the Japan Current, (2) the Tusima Current from Japan Sea, and (3) the neritic waters of the northern parts of Sea of Okhotsk. *Copy seen:* DI.

**20094. AIKAWA, HIROAKI.** On the summer plankton in the waters of the western Aleutian Islands in 1928. (Japanese Society of Scientific Fisheries. Bulletin, July 1932. v. 1, p. 70-74, chart-diagr., tables). Text in Japanese; summary in English.

A quantitative and qualitative study of 30 samples taken in the region of Rat and Near Islands, July-Aug. 1928, showing a difference in Bering Sea and Pacific influences, with some discussion of mixing of water in the area.

*Copy seen:* DI.

**20095. AKADEMIĀ NAUK SSSR.** Opredeliteli po faune SSSR, izdavaemye Zoologicheskim institutom Akademii nauk. No. 1 [-45]. Leningrad-Moskva, Izd-vo Akademii nauk SSSR, 1927-1952, in progress. *Title tr.:* Keys to the fauna of the U.S.S.R. published by the Zoological Institute of the Academy of Sciences. no. 1 [-45].

This comprehensive work (of which 44 numbers have been seen) consists of tables for the determination of various families, genera and species of the fauna of the U.S.S.R. and adjoining countries of Eurasia; the parts not listed here (no. 14, 18-20, 25, 28, 36) deal exclusively with fauna of southerly regions.

*Contents tr.:* No. 1 (1927) SHTAKEL'-BERG, A. A. The Culicidae of the U.S.S.R.

No. 2 (1929). DOGEL', V. A. Protozoa.

No. 3 (1931). BAROVSKIĬ, V. V. Beetles of the fam. Lycidae.

No. 4 (1931). OLENEV, N. O. Parasitic ticks, Ixodoidea.

No. 5 (1932). TUGARINOV, A. ĪA. Birds of the U.S.S.R. The ducks.

No. 6 (1932). SHTEGMAN, B. K. Birds of the U.S.S.R. The ravens.

No. 7 (1933). SHTAKEL'BERG, A. A. Flies of the U.S.S.R.

No. 8 (1933). D'ĪAKONOV, A. M. Echinoderms of the arctic seas.

No. 9 (1933). MEĪER, N. F. Systematic tables of parasitic Hymenoptera. (Ichneumonidae). Continued in no. 15, 16, 21, 22.

No. 10 (1933). VINOGRADOV, B. S. Mammals of the U.S.S.R. The rodents.

No. 11 (1933). MIRAM, Ė. F. The orders of insects.

No. 12 (1933). MIRAM, Ė. F. Orthoptera of Yakutia.

No. 13 (1934). MARTYNOV, A. V. Trichoptera Annulipalpia, I.

No. 15 (1933-34). MEĪER, N. F., see no. 9.

No. 16 (1935). MEĪER, N. F., see no. 9.

No. 17 (1935). KOZLOVA, E. V. Birds of the U.S.S.R. The Gruiformes.

No. 21 (1936). MEĪER, N. F., see no. 9.

No. 22 (1936). MEĪER, N. F., see no. 9.

No. 23 (1938). ZIMIN, L. S. The pods of the Acrididae.

No. 24 (1936). MONCHADSKIĬ, A. S. The larvae of mosquitoes.

No. 26 (1946). POMERANTSEV, B. I. The ticks (Ixodidae) of the U.S.S.R.

No. 27 (1948). BERG, L. S., Fresh-water fishes of the U.S.S.R. Continued in no. 29-30.

No. 29 (1949). BERG, L. S., see no. 27.

No. 30 (1949). BERG, L. S., see no. 27.

No. 31 (1949). CHERNOVSKIĬ, A. A. Tables for determination of Tendi-pedidae.

No. 32 (1950). BORKHSENIUS, N. S. Coccoidea of the U.S.S.R.

No. 33 (1950). KISELEV, I. A. Dinoflagellata of the U.S.S.R.

No. 34 (1950). D'ĪAKONOV, A. M. Starfishes of the seas of the U.S.S.R.

No. 35 (1950). BRODSKIĬ, K. A. Calanoida of the Far Eastern seas.

No. 37 (1951). MONCHADSKIĬ, A. S. Larvae of blood-sucking mosquitoes of the U.S.S.R. and adjoining countries.

No. 38 (1951). BEĬ-BIENKO, G. Ĭ., and L. L. MISHCHENKO, Acridoidea of the fauna of the U.S.S.R., part 1. Continued in no. 40.

No. 39 (not yet seen).

No. 40 (1951). Part 2 of no. 38.

No. 41 (1951). GUR'ĬANOVA, E. F. Gammaridea of the U.S.S.R.

No. 42 (1951). KIRICHENKO, A. N. True Hemiptera of European U.S.S.R.

No. 43 (1952). LIKHAREV, I. M., and E. S. RAMMEL'MEIER. Terrestrial molluscs of the fauna of the U.S.S.R.

No. 44 (1952). NIKOL'SKAĬA, M. M. Chalcid flies of the U.S.S.R.

No. 45 (1952). ĬAKOVLEVA, A. M. Chitons (Loricata) of the seas of the U.S.S.R.

Each number appears in this Bibliography under its author's name.

**File seen:** DLC; MH-Z.

**20096. AKADEMIĬA NAUK SSSR.** Poleznye iskopaemye i transportnaĭa problema Ĭakutii; sbornik stateĭ. Leningrad, Izd. Akademii nauk SSSR i Sovnarkoma ĬASSR, 1930. 2 p. l., xii, 96 p. illus., 3 fold. maps. **Title tr.:** Mineral resources and the transportation problem of Yakutia; a collection of papers.

Edited by P. V. Vittenburg and published in connection with the work of the Yakut Expedition of the Academy of Sciences, U.S.S.R., 1925-29.

**Contents tr.:** Vittenburg, P. V. Preface p. iii-xii (a short survey of the work of the expedition noting its published results (in footnotes, p. iv-viii), characterizing means of communication in Yakutia, and emphasizing the importance of data in these papers for planning of new roads, especially the Amur-Yakutsk railroad).

OBRUCHEV, V. A. The gold fields of Yakutia.

ZVEREV, V. N. Mineral resources of Yakutia.

LIBIN, I. K. Transportation problem of Yakutia. Index, p. 87-96.

Each of these papers (except the preface) appears in this Bibliography under its author's name. **Copy seen:** DLC.

**AKADEMIĬA NAUK SSSR, see also** Ĭubileinyĭ sbornik posvĭashchennyĭ tridtsatiletiŭu velikol'oktĭabr'skoĭ soĭsialisticheskoĭ revoliutsii. 1947. No. 22866.

**AKADEMIĬA NAUK SSSR. BOTANICHESKIĬ INSTITUT, see** Ĭil'in, M. M., & G. V. Pigulevskii. Poleznye rasteniĭa SSSR. 1951. No. 22791.

**AKADEMIĬA NAUK SSSR. BOTANICHESKIĬ INSTITUT, see also** Shishkin, B. K., & others. Ĭadovitye rasteniĭa. 1950. No. 26115.

**AKADEMIĬA NAUK SSSR. DAL'NEVO-STOCHNYĬ FILIAL, see** Botanicheskii sektor DVFAN. Itogi izucheniĭa pastbishch DVK. 1938. No. 20849.

**AKADEMIĬA NAUK SSSR. DAL'NEVO-STOCHNYĬ FILIAL, VLADIVOSTOK. GORNOTAEZHNAĬA STANTSĬA, see** Zhiliĭkov, N. I. Osnovnye ĕtapy raboty Gornotaezhnoĭ stantsii. 1946. No. 27595.

**20097. AKADEMIĬA NAUK SSSR. INSTITUT ĖTNOGRAFIĬ.** Pamĭati V. G. Bogoraza (1865-1936), sbornik stateĭ. Moskva, Leningrad, 1937. xviii p., 1 l., 382 p. front. (port.) illus., fold. plates, maps (2 fold.), 2 fold. tables, diagrs. **Title tr.:** In memoriam of V. G. Bogoraz (1865-1936), a symposium.

**Contents tr. include:** ZELENIN, D. K. V. G. Bogoraz as ethnographer and folklorist.

ZELENIN, D. K. Custom of "voluntary death" among primitive peoples.

PETROVA, T. I. Chronology among Tungus-Manchu peoples.

POPOV, A. A. Hunting and fishing among the Dolgans.

NIKIFOROV, A. I. A Chukey story teller and a Russian fairy tale.

STEPANOV, N. N. The history of the struggle for liberation by the people of northeastern Siberia in the 17th century.

RAVDONIKAS, V. I. Neolithic settlements of the western Ladoga region in the light of the ethnography of peoples of northeastern Asia.

STEBNIŖSKIĬ, S. N. Basic phonetic differences in dialects of the Nymylan (Koryak) language.

PROKOF'EV, G. N. On the "transitive" voice in Samoyed languages (1934).

MYL'NIKOVA-FORSHTEĬN, K. M. The development of the Tungus-Manchu boat according to the linguistic data.

CHERNETSOV, V. N. Terms for means of communication in the Mansi [Vogul] language.

Each of these papers is analysed in this Bibliography under its author's name.

**Copy seen:** DLC.

**20098. AKADEMIĖ NAUK SSSR. INSTITUT GEOGRAFIJ. Russkie geografii i puteshestvenniki; pod red. L. S. Berga, A. A. Grigor'eva, i N. N. Baranskogo. Vyp. 1. Moskva, Iskusstvo, 1948. 42 p., illus. Title tr.:** Russian geographers and travelers; under editorship of L. S. Berg, A. A. Grigor'ev, and N. N. Baranskiĭ. Part 1.

Album of 42 plates, each with a short account of the life and achievements of an explorer, a sketch map of his travels, and usually his portrait. Most of these explorers worked in the North. Living men are not included.

**Copy seen:** DLC.

**20099. AKADEMIĖ NAUK SSSR. KARELO-FINSKAIĖ NAUCHNO-IS-SLEDOVATEL'SKAIĖ BAZA. Petrozavodsk. Nauka v Karelo-Finskoi SSR za 30 let sovetскоi vlasti. Petrozavodsk, Izd. Karelo-Finskoi nauchno-issledovatel'skoi bazy Akademii nauk SSSR, 1948. 159 p. ports. Title tr.:** Science in the Finnish Karelian SSR during thirty years of Soviet rule.

Contains in addition to congratulatory telegrams and speeches, reports on: the role of science in development of the area; the activities in geology, zoology and hydrobiology; research in agriculture and production in general; the advances in linguistic, historical and archeological exploration. Bibliographical footnotes.

**Copy seen:** DLC.

**20100. AKADEMIĖ NAUK SSSR. KhibinskaiĖ gornaiĖ stantsiĖ. KhibinskaiĖ gornaiĖ stantsiĖ; sbornik stateĭ, pod red. A. E. Fersmana i B. M. Kupletskogo. Leningrad, Izd-vo, Akademii nauk SSSR, 1934. 98 p., illus. Title tr.:** The Khibiny mountain station; collection of articles, under the editorship of A. E. Fersman and B. M. Kupletskii.

**Contents tr.:** Vorob'eva, O. A., and E. P. Kessler. History and present location of the station (10 km. from Kirovsk).

Ketcher, I. A. Construction of the station.

Starynkevich-Borneman, I. D. The chemical laboratory of the station.

Gutkova, N. N., and A. A. Korovkin. The museum of the station.

Kulik, L. I., and A. A. Korovkin. The library of the mountain station.

Avrorin, N. A. The polar-alpine botanical garden.

Tikhomirov, I. K. The role of the station for the study of the climate and hydrology of the mountain district of Kola Peninsula.

Fridolin, V. I. The station as a center of study of geographic complexes.

Oranzhereeva, A. M. The Khibiny mountain station as base for expedition investigations.

Zdravomyslov, V. K. Principal literature on the Khibiny tundras. (31 items).

**Copy seen:** DLC.

**20101. AKADEMIĖ NAUK SSSR.**

**KOL'SKAIĖ BAZA. Materialy k geokhimii Khibinskikh tundr; sbornik stateĭ pod red. A. E. Fersmana. Moskva, 1935. 89 p. plates, fold. map, 2 fold. diagrs. Title tr.:** Materials for the geo-chemistry of the Khibiny tundras; A collection of articles edited by A. E. Fersman.

**Contents tr.:** (1) Labunsov, A. N. Molybdenite deposits in the Khibiny tundra.

Starynkevich-Borneman, I. D. Lovchorrite and its analogues.

Starynkevich-Borneman, I. D. Methods of analysis of lovchorrite and its analogues.

Chirvinskii, P. N. Microscopic characteristics of lovchorrite and of one of its analogues from the Khibiny tundra. Summaries in German.

**Copy seen:** DLC.

**20102. AKADEMIĖ NAUK SSSR.**

**ZOOLOGICHESKII INSTITUT. IssledovaniĖ dal'nevostochnykh moreĭ SSSR II. Materialy po faune dal'nevostochnykh moreĭ, sobrannye ekspeditsiĖami Gosudarstvennogo gidrologicheskogo instituta i Tikhookeanskogo nauchno-issledovatel'skogo instituta rybnogo khozĖistva i okeanografii 1932-1935 gg. Moskva-Leningrad, 1950. 305 p., illus., plates. Title tr.:** Investigations of the Far Eastern seas of the U.S.S.R. II. Materials on the fauna of Far Eastern seas collected by the expeditions of the Hydrographic Institute and the Pacific Scientific Research Institute of Fisheries and Oceanography 1932-1935.

**Contents tr.:** DERJUGIN, K. M. New data on the systematics, morphology and biogeography of the genus *Velutina* Flem. (Mollusca, Gastropoda, Lamellariidae).

D'IAKONOV, A. M. The deep-sea element in the star-fish fauna of the Sea of Okhotsk.



**20107. ALANDER, HARALD.** Additions to the Swedish sponge-fauna; preliminary note. (Arkiv för zoologi, 1935. Bd. 28 B, no. 5, p. 1-6, illus.)

*Contains a systematic list of 22 sponges (one described as new), with additional data on geographic distribution; includes at least ten species occurring in northern Norwegian waters. Copy seen: MH-Z.*

**20108. ALASKA. AERONAUTICS AND COMMUNICATIONS COMMISSION.** Report. [Juneau, 1940-1952 in progress] Published annually (year ending June 30). Reproduced from typewritten copy, with maps, tables, diagraphs.

Report on aircraft operations in Alaska covering number of trips, mileage, number of passengers, amount of freight, mail, etc.

*File seen: DLC (1939/40-1951/52).*

**20109. ALASKA. AGRICULTURAL EXPERIMENT STATION.** Administrative report of progress, January 1 to December 31, 1951. Palmer, Alaska. 134 p. tables, process print. (In cooperation with the U. S. Dept. of Agriculture, Agricultural Research Administration)

*Contains a compilation of annual administrative reports including a full outline of research problems under study in: soil science, horticulture; animal industry, engineering, economics, agronomy, entomology, and plant pathology. Also included are cooperative works with other agencies, reports on the physical plant, personnel, future requirements, publications, etc. Copy seen: CaMAI.*

**20110. ALASKA. AGRICULTURAL EXPERIMENT STATION.** Progress report, 13th, 1948. Palmer, Alaska, 1949. 11 p. tables.

*Contains a report on progress of the experiment stations at Palmer, Matanuska, College, and Petersburg; it covers research for the crop-season 1948 and fiscal reports for 1947-49. Research included crop testing and improvement of cereals, forage plants and pastures; dairy cattle breeding, feed production and preservation; chicken diets; fur animal foods; horticulture, soil science, etc. For previous reports, see *Arctic Bibliography*, No. 152).*

*Copy seen: CaMAI.*

**ALASKA. ALASKA DEVELOPMENT BOARD,** see U. S. Bureau of Reclamation. Alaska . . . water resources. 1949, 1952. No. 26896.

**ALASKA. DEPT. OF AGRICULTURE,** see U. S. Bureau of Reclamation. Alaska . . . water resources. 1949, 1952. No. 26896.

**20111. ALASKA. DEPT. OF HEALTH.** Arctic health institute. [Juneau?] 1949. 23 p. illus.

*Contains statement of the need for an arctic health research center as proposed by the U. S. Public Health Service. This is followed by outline (prepared in consultation with specialists in the various fields) of the problems which require investigation in: epidemiology, tuberculosis, venereal diseases, parasitology and entomology, animal vectors; nutrition and dental studies; studies in physiology; environmental sanitation training program. Finally (p. 20-24) steps taken through the U. S. Congress and the University of Alaska towards setting up the research program, are outlined. The enterprise thus initiated became the U. S. Public Health Service, Arctic Health Research Center at Anchorage, Alaska, q.v. Copy seen: CaMAI.*

**20112. ALASKA. DEPT. OF HEALTH.** Regulations governing the control of contagious diseases, 1931. [Juneau, 1931] 1 p. l., 9 p.

*Contains extracts from territorial laws intended to prevent spread of diseases dangerous to public health, followed by instructions for general care and management of contagious diseases and for reporting them, etc., where services of a competent health officer cannot be secured. Quarantine regulations for various diseases. Copy seen: DLC.*

**ALASKA. DEPT. OF HEALTH,** see also *Alaska's health, 1943-in progress.* No. 20119.

**ALASKA. DEPT. OF HEALTH,** see also Alter, A. J. Arctic sanitary engineering. 1950. No. 20158.

**ALASKA. DEPT. OF HEALTH,** see also U. S. Bureau of Reclamation. Alaska . . . water resources. 1949, 1952. No. 26896.

**ALASKA. DEPT. OF HEALTH,** see also Whittaker, H. A. Sanitation needs. 1949. No. 27356.

**ALASKA. DEPT. OF MINES,** see U. S. Bureau of Reclamation. Alaska . . . water resources. 1949, 1952. No. 26896.

**20113. ALASKA. FISH COMMISSION.** The Alaska salmon and their practical propagation. By A. J. Sprague, Supt. Territorial Hatcheries of Alaska. March, 1921. [Juneau] Alaska Daily Empire Print [1921]. 24 p., illus.

Pamphlet written for fishermen explaining the ways and advantages of salmon propagation, both natural and artificial. *Copy seen:* DLC.

**20114. ALASKA. GAME COMMISSION.** Regulations relating to game and fur animals, birds, and game fishes in Alaska 1950-51. [Washington, U. S. Govt. Print. Off.] 1950. 27 p. (Regulatory announcement 29)

Contains laws protecting wildlife, general regulations respecting game; regulations relating to guides, licenses, fur management areas, and poisons, the bird and wildlife refuges, and national parks and monuments of Alaska; also extracts from Territorial act on wanton destruction of game and on dogs running at large. *Copy seen:* DLC.

**20115. ALASKA. OFFICE OF HIGHWAY ENGINEER.** Principal road system of Alaska. Juneau, Alaska, 1945. 7 p. map.

Contains tables of distances on Richardson, Glenn, Alaska, Steese and Haines Highways and on the Tok Cutoff.

*Copy seen:* DI.

**ALASKA. UNIVERSITY,** *see* Irwin, D. L. Status agric. research. 1952. No. 22839.

**ALASKA CRIPPLED CHILDREN'S ASSOCIATION,** *see* Shishmaref Day School. Eskimo cook book. 1952. No. 26118.

**ALASKA DEVELOPMENT BOARD,** *see* Browne, R. Cordova district. 1951. No. 20958.

**ALASKA DEVELOPMENT BOARD,** *see also* Browne, R. Sitka district. 1950. No. 20959.

**ALASKA NATIVE SERVICE,** *see* U. S. Bureau of Reclamation. Alaska . . . water resources. 1949, 1952. No. 26896.

**ALASKA RAILROAD,** *see* U. S. Bureau of Reclamation. Alaska . . . water resources. 1949, 1952. No. 26896.

**ALASKA ROAD COMMISSION,** *see* U. S. Bureau of Reclamation. Alaska . . . water resources. 1949, 1952. No. 26896.

**20116. ALASKAN.** Sheldon Jackson Junior College, owned and operated by the Board of National Missions Presbyterian Church in the U. S. A. (Alaskan, Fall 1949. v. 2, no. 3, p. 16-20, illus.)

History of this mission school (now non-segregated) established in 1878 as an Indian school, and operated continuously since April 5, 1880, in Sitka, Alaska.

*Copy seen:* DI.

**ALASKAN SCIENCE CONFERENCE.** 1st, Washington, D. C., Nov. 9-11, 1950, *see* Arctic. Alaskan Science Conference. 1951. No. 20254.

**ALASKAN SCIENCE CONFERENCE, 2d.** Mount McKinley National Park, Sept. 1951, *see* Gruening, E. H. Political ecology. 1951. No. 22262.

**20117. ALASKAN SCIENCE CONFERENCE OF THE NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL.** Washington, Nov. 9-11, 1950. Proceedings. Washington, 1951. ix, 216 p., map. (National Research Council. Bulletin, No. 122)

A conference "(1) to review the status of scientific research in Alaska, (2) to appraise the major requirements of future research, and (3) to explore ways and means of developing new facilities and coordinating existing ones." These proceedings include minutes of the opening and closing sessions and of the general meetings: addresses by officials of the Territory of Alaska, of the U. S. Depts. of Agriculture, Interior, Commerce and Defense, the U. S. Coast Guard, Federal Security Agency, Smithsonian Institution, and of the Arctic Institute of North America; abstracts of papers and proceedings from section meetings on agriculture and forestry, anthropology, botany, geography and geology, geophysics, meteorology, oceanography, physiology, public health and medicine, and zoology; symposia on permafrost, health problems of Alaskan Eskimos, Aleuts and Indians, relationship of vegetation to the physical environment, and sea ice; reports on research facilities and opportunities in Alaska and recommendations of the conference. These proceedings represent the contributions of 129 scientists; 23 of the papers are published in full in the Conference's *Selected papers*, 1952, q. v.; the following are abstracted (or given in full) here:

*Agriculture and forestry.*

Cardon, P. V. Interest of American

public in agricultural research in Alaska.

Kellogg, C. E. Soils of Alaska.

Sherman, C. G. Agricultural research requested by farmers for development of Alaska.

Aamodt, O. S. Ecology of crop and forage plants in Alaskan agriculture.

Irwin, D. L. Status and accomplishments of agricultural research in Alaska.

Taylor, R. F. Alaska forest research problems and program.

#### *Anthropology.*

Garfield, V. E. Anthropological research in southeastern Alaska.

Lantis, M. What is happening and what can happen to Alaska Eskimos.

De Laguna, F. Preservation of archaeological and ethnological material in Alaska; with comment by D. Jenness.

Laughlin, W. S. Contemporary problems in the anthropology of southern Alaska.

Rainey, F. G. Eskimo archaeology in 1950.

Giddings, J. L. *Jr.* Problems of early man in Alaska.

#### *Botany.*

Steere, W. C. Botanical research in Alaska.

Raup, H. M. Physiographic ecology in Alaska; with comment by R. S. Sigafos.

Porsild, A. E. Vegetation of arctic Alaska and Yukon; with comment by W. A. Dayton.

Wiggins, I. L. The future of botanical research in Alaska; with comment by N. Polunin.

Griggs, R. F. Revegetation and soil formation in Alaska; with comment by D. B. Lawrence.

Anderson, J. P. The flora of Alaska; with comment by E. H. Walker.

#### *Geology and geography.*

Field, W. O. *Jr.* Glaciological research in Alaska.

Miller, M. M. The Juneau Ice Field Research Project, 1948-50.

FitzGerald, G. Surveying and mapping in Alaska.

Miller, R. L. Petroleum geology in Northern Alaska.

Rathjens, G. W. Applications of permafrost research in the Arctic.

Waananen, A. O. The hydrology of Alaska.

Stone, K. H. Some geographic bases for new Alaskan settlement.

#### *Geophysics.*

Roberts, E. B., and D. G. Knapp. Geomagnetism.

McNish, A. G. Interest of Central Radio Propagation Laboratory, National Bureau of Standards, in radio propagation research in Alaska.

Swartz, J. H. Geophysical investigations in the Aleutian Islands.

McCarthy, G. R. Geothermal studies in Northern Alaska.

Myers, W. H. Geophysical prospecting for oil through permafrost.

Wilson, W. S. The program of the Geophysical Institute at the University of Alaska.

#### *Meteorology.*

Dorsey, H. G., *Jr.* Meteorological factors affecting Alaskan development.

MacDonald, T. H. Measurement of solar radiation in the Arctic.

Oliver, V. J. Ice fog in Interior Alaska. Court, A. Climate, insects, and man in Alaska.

Bensin, B. M. Agroclimatological investigation in the permafrost region of the Tanana valley, Alaska.

Haynes, B. C. The Weather Bureau's arctic observation program outside of Alaska.

Pettersen, S. On the maintenance of the Aleutian Low.

#### *Oceanography.*

Dietz, R. S., and H. W. Menard. The sea floor of the Gulf of Alaska.

LaFond, E. C., J. F. T. Saur, *Jr.*, and J. P. Tully. Physical oceanography of the Bering and Chukchi Seas.

Emery, K. O. Topography of the Arctic Basin.

Wooster, W. S. Distribution of oxygen and phosphate in the Arctic Sea.

Wickham, J. B. Flux of latent and sensible heat at the sea surface off Point Barrow, Alaska.

Thompson, T. G., and C. A. Barnes. Physical and chemical oceanography of the Gulf of Alaska and the Aleutian Islands.

Marmar, H. A. Tides and sea level in Alaskan waters.

Johnson, M. W. Studies on plankton of the Bering and Chukchi Seas and adjacent areas.

#### *Physiology.*

Irving, L. A study on climatic adaptation in arctic and tropical mammals and birds.

Scholander, P. F. Metabolic studies above and below freezing in arctic and tropical coldblooded animals and plants.

Campbell, D. H. Studies on immunological phenomena in arctic mammals.

Wilber, C. G. Fat metabolism in arctic

as compared with temperate zone mammals.

Carlson, L. D. Acclimatization to the cold—physiological mechanisms.

Griffin, D. R. The comparative physiology of Alaskan bird migrations.

*Public health and medicine.*

Aronson, J. D. The medical history of Alaska.

Schiller, E. L. Observations on arctic parasitology with special reference to the status of echinococcosis and diphyllobothriasis in Alaska.

McCollum, E. L. The psychological aspects of arctic and subarctic living.

Fritz, M. H., and P. Thygeson. Phlyctenular keratoconjunctivitis among Alaskan natives.

Wilson, C. S. Some biological and technical aspects of control of biting insects in Alaska.

Alter, A. J. Water-supply problems in low-temperature areas; with comment by P. W. Roberts.

Day, E. K. Sewage and waste-disposal problems in low-temperature areas; with comments by H. A. Thomas, Jr., and R. J. Karpen.

*Zoology.*

Anderson, C. L. Territorial Fishery Administration.

Thompson, W. F. Some salmon research problems in Alaska.

Anderson, A. W. Fishery exploration and development in Alaska.

Thompson, S. Management of the marine resources of Alaska.

Allen, A. A. The bird fauna of Alaska.

Gabrielson, I. N. Alaskan waterfowl and their management.

Murie, O. J. Planning for Alaska's big game.

Anderson, R. M. The fur animals of arctic Alaska.

Elkins, W. A. Pressing problems in administration of wildlife resources in Alaska.

Green, D. D. Predator control problems in Alaska.

*Permafrost.*

Ray, L. L. Permafrost. (see under author's name)

Alter, A. J. Relationships of permafrost to environmental sanitation.

Benninghoff, W. S. Interaction of vegetation and soil-frost phenomena.

*Health problems of Alaskan Eskimos, Aleuts and Indians.*

Rausch, R. Biotic interrelationships of helminth parasitism in Alaska.

Paul, J. R. Epidemiological observations on Eskimos from the north coast of Alaska. [250 serum specimens from all age groups from normal Eskimos living on the north coast of Alaska were tested for various antibodies; a few complement-fixation tests against trichinosis antigen were carried out—all were negative.]

Haldeman, J. C. Problems of Alaskan Indian, Eskimo, and Aleut from the point of view of public health.

Laughlin, W. S. Aleut health problems from the viewpoint of an anthropologist.

*Relationship of vegetation to the physical environment.*

Sigafoos, R. S. Congeliturbation as a primary physical factor in tundra plant communities.

Baxter, D. V. Pathology in the future forest practice in Alaska.

Lutz, H. J. Ecological effects of forest fires in the interior of Alaska.

*Sea ice.*

Allen, L. P. The geography and morphology of sea ice.

Dichtel, W. J., and G. A. Lundquist. An investigation into the physical and electrical characteristics of sea ice.

Fletcher, J. O. Floating islands in the Arctic Ocean.

Fritz, S. The growth of ice thickness in arctic regions.

Dyer, J. G. Polar ice reconnaissance.

*General meeting.*

Heintzleman, B. F. Forestry in Alaska. (in full)

Day, A. M. The Alaskan fisheries. (in full)

Stewart, B. D. Mining in Alaska. (in full)

Landsberg, H. E. Alaskan research and national defense. (in full)

Flakne, J. T. Alaska and its development. (in full)

*Closing session.*

Broadbent, S. R. Research coordination in Alaska from the budget viewpoint. (in full)

McCollum, E. L. The Arctic Aeromedical Laboratory at Fairbanks. (in full)

Haldeman, J. C. Facilities and opportunities for research at the Arctic Health Research Center. (in full)

Wiggins, I. L. Facilities at the Arctic Research Laboratory at Point Barrow, Alaska. (in full)

Washburn, A. L. The Arctic Institute of North America and Alaskan research (in full)

Irwin, D. L. Facilities for agricultural research in Alaska. (*in full*)

Moore, T. The University of Alaska and scientific research in Alaska. (*in full*)  
**Copy seen:** DLC.

**20118. ALASKAN SCIENCE CONFERENCE OF THE NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL.** *Washington, D. C., Nov. 9-11, 1950.*

Selected papers, edited by Henry B. Collins. Washington, D. C., 1952. vi, 305 p. illus. diagrs., maps, tables. (Arctic Institute of North America. Special Publication no. 1)

*Contains* (p. iii-iv) preface noting that as this conference represented the first broad survey of Alaskan science, a representative selection of the papers presented are published as companion volume to its *Proceedings* (q. v.) viz.:

*Agriculture and forestry:* IRWIN, D. L. Status and accomplishments of agricultural research in Alaska.

TAYLOR, R. F. Alaska forest research problems and program.

*Anthropology:* GARFIELD, V. E. Survey of southeastern Alaskan Indian research.

LANTIS, M. Present status of the Alaskan Eskimos.

De LAGUNA, F. Preservation of archaeological and ethnological material in Alaska.

JENNESS, D. Preservation of archaeological remains in Canada.

LAUGHLIN, W. S. Contemporary problems in the anthropology of southern Alaska.

GIDDINGS, J. L. Ancient Bering Strait and population spread.

*Botany:* STEERE, W. C. Botanical research in Alaska.

WIGGINS, I. L. The future of botanical research in Alaska.

*Geology and geography:* FIELD, W. O. Glaciological research in Alaska.

STONE, K. H. Some geographical bases for planning new Alaskan settlement.

WAANANEN, A. O. The hydrology of Alaska.

*Geophysics:* KNAPP, D. G., and E. B. ROBERTS. Geomagnetism—cosmic and prosaic.

WILSON, Wm. S. The Geophysical Institute at the University of Alaska.

*Meteorology:* BENSIN, B. M. Agroclimatological investigations in the permafrost region of the Tanana valley.

*Public health and medicine:* ALTER,

A. J. Water supply problems in low temperature areas.

ALTER, A. J. Relationship of permafrost to environmental sanitation.

McCOLLUM, E. L. The psychological aspects of arctic and sub-arctic living.

*Zoology:* MURIE, O. J. Planning for Alaska's big game.

ELKINS, W. A. Pressing problems of administration of wildlife resources in Alaska.

THOMSON, S. H. Management of marine resources of Alaska.

GABRIELSON, I. N. Alaskan waterfowl and their management.

Each paper is analyzed in this Bibliography under its author's name. To most of the papers are appended selective bibliographies, which collectively present a comprehensive and concentrated record of research literature on Alaskan problems.  
**Copy seen:** DAI; DLC.

**ALASKAN SCIENCE CONFERENCE OF THE NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL,** *Washington, D. C., Nov. 9-11, 1950, see also Ray, L. L. Permafrost. 1951. No. 25413.*

**20119. ALASKA'S HEALTH.** v. 1, no. 1, June 1943—in progress. Juneau, Alaska, Dept. of Health, 1943-1952 *in progress*. 10 v. (unpagged through v. 6, no. 7-8)

Monthly journal issued by the Alaska Dept. of Health, "cooperating with U. S. Children's Bureau and U. S. Public Health Service." Planned as a clearing house of information for official and voluntary organizations in the field of public health and welfare in Alaska.

**File seen:** DLC (v. 1-7 only); DPHS (scattered issues)

**20120. ALASKA'S HEALTH.** Offer new anti-mosquito device for Alaska home, camp use. (Alaska's health, 1950. v. 8, no. 3-4, p. 3, diagrs.)

*Contains* description of a simple, inexpensive method developed in Alaska by the U. S. Public Health Service and known as Aerosol Spray Unit. It is especially useful for small areas where other methods are not practical. It creates a mist of insecticide which drifts over the area to be protected.

**Copy seen:** DSG.

**20121. ALASKA'S HEALTH.** Paralytic shellfish poisoning. (Alaska's health, May 1945. v. 3, no. 5, p. [6-7])

Description of the occurrence and symptoms of poisoning, also precautions

to be taken in warm months (especially in southeastern Alaska) against *Gonyaulax catenella* infestations of clams, mussels and oysters. **Copy seen:** DLC.

**20122. ALBERT 1er, PRINCE OF MONACO, 1848-1922.** Exploration océanographique aux régions polaires. (Paris. Muséum National d'Histoire Naturelle. Bulletin, 1899. t. 5, p. 6-14, illus.) **Title tr.:** Oceanographic exploration in polar regions.

Account of itinerary of the *Princesse-Alice II*, 1898, with notes on natural history and physiography of the Barents Sea, Svalbard waters and the western part of Spitsbergen. **Copy seen:** DSI-M.

**20123. ALBERTSON, NILS.** *Scorpidium turgescens* (Th. Jens.) Moenkem, en senglacial relik i nordisk alvarvegetation. (Acta phytogeographica suecica, 1940. t. 13. Västgeografiska studier tillägnade C. Skotteberg, p. 7-26, text maps) **Title tr.:** *Scorpidium turgescens* (Th. Jens.) Moenkem, a relict of the late glacial epoch in northern alvar vegetation.

**Contains** a study of the Scandinavian distribution of this moss, widely distributed in the arctic alpine regions of the so-called "alvar" vegetation of the Scandinavian Peninsula, with list of localities, including Swedish Lapland also Nordland and Tromsø in northern Norway; data on total distribution (probably circum-polar), and a list of associated plants. Bibliography (50 items). Summary in German. **Copy seen:** DA; MH-A.

**20124. AL'BOV, N. V., and V. A. KOTOVICH.** K voprosu ob izuchenii geologicheskoi struktury Onego-Dvinskogo mezhdurech'ia i levoberezh'ia r. Onegi. (Vserossiiskoe mineralogicheskoe obschestvo, Leningrad. Zapiski, 1939. Ser. 2, Chast. 68, no. 1, p. 104-111, text map) **Title tr.:** Contributions to the study of geological structure of the Onega-Dvina watershed and the left bank region of the Onega River.

**Contains** a study of geological structure of the Onega-Severnaya Dvina region, divided by the author into six groups, of which the northern group of Nenoksa (a village on the coast of the White Sea) consists of volcanic tuffs 90 meters thick; their correlation with sedimentary deposits is insufficiently studied. Summary in English. **Copy seen:** MH-Z.

**ALBRIGHT, W. D.,** see American Geographical Society, N. Y. Readings in

the geography of N. America. 1952. No. 20178.

**20125. ALCAN INGOT.** For arctic living: specially designed structure. (Alcan ingot, Aug. 8, 1952. v. 11, no. 12, p. 4-7, illus.)

**Contains** account of a hurricane-proof tent-like structure, with a domed frame designed on geodesic principle and made of aluminum tubing, cover of orlon fabric. It provides 200 sq. ft. floor space and minimum height of 6 ft. unobstructed by tent poles or supports. Packed with erection tools, etc. in about 11 cu. ft., it weighs 140 lbs. "Weather-break" as the structure is named, is designed by J. Lindsay and T. Pope of Fuller Research Foundation for use on Baffin Island Expedition 1953 of the Arctic Institute of North America. The structure and procedure of its erection is illustrated. **Copy seen:** CA:MAI.

**20126. ALCAN INGOT.** Into the Arctic. (Alcan ingot, Jan. 1951. v. 10, no. 1, p. 4-7)

**Contains** brief sketch of an expedition to Baffin Island made in 1950 under sponsorship of the Arctic Institute of North America and headed by P. D. Baird, director of its Montreal (head) office. The activities of the Institute are described, and details given on the 1950 expedition: its personnel, equipment (particularly that of aluminum), food, etc., and some aspects of its research work. **Copy seen:** DAI.

**ALCORN, J. R.,** see Baker, R. H. Mammals Alaska Highway. 1951. No. 20423.

**ALDRICH, JOHN MERTON, 1866-1934,** see Hine, J. S. Horseflies collected by J. M. Aldrich 1921. 1923. No. 22625.

**20127. ALEKSANDROV, A. I.** Spisok stanits i sborov, proizvedennykh v Kovdenskom zalivie s 24 iunna po 5 avgusta 1912 goda. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1914, pub. 1915. T. 19, no. 4, p. xxix-xlvii) **Title tr.:** List of stations and specimens collected in Kovda Bay from June 24 to Aug. 5, 1912.

**Contains** a general description of the geography and natural history of Kovda Sound (about 66°40' N. 33° E.) Kandalakshskiy Gulf, White Sea; and a list of 84 stations established there in 1912, with their locations, depth, bottom

samples and names of marine plants and animals collected on each station.

**Copy seen:** DLC; MH-Z.

**20128. ALEKSANDROVA, V. D.** Ras-titel'nost' Grenlandii. (Priroda, Oct. 1951, v. 40, no. 10, p. 61-65, illus.) **Title tr.:** Vegetation of Greenland.

Contains a sketch of the vegetation generally and description of three vegetative zones: (1) forest-tundra in the southwestern part of Greenland, (2) tundra zone and (3) arctic deserts in the northern section, with lists of typical plants and characteristics of each zone.

**Copy seen:** DLC; MH.

**20129. ALEKSEEV, NIKOLAI NIKOLAEVICH.** Ostrov Vrangeli. (Akademika nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1932, no. 3-4, p. 82-86, map) **Title tr.:** Wrangel Island.

Contains historical data on the discovery of Wrangel Island: DeLong's expedition in the *Jeannette* 1867, Vrangeli, in 1828, Stefansson's Canadian Arctic Expedition in 1913, the *Vatgach* in 1914; diplomatic struggles concerning sovereignty of the island; brief physical and geographic notes. **Copy seen:** MH-A.

**20130. ALEKSEEV, M. S.** Sovremennoe polozhenie rybnol'noy promyshlennosti na Dal'nem Vostoke i ee blizhalshie perspektivy. (In: Dal'ne-Vostochnyy kray. Upravlenie rybolovstva i okhoty na morskogo zveria. Rybnye i pushny bogatstva Dal'nego Vostoka, 1923, p. 1-133, illus., tables, diagrs.) **Title tr.:** Present-day condition of fisheries in the Far East and their immediate prospects.

Contains list of decrees regulating the fishing and whaling industries of the area; data for a varying number of years on amounts of fish caught, preserved, exported; number of fishermen; canning industry, etc. of the Far East, including Alaska, Kamchatka and the Okhotsk Sea coast; the activities of the Japanese in this area; fish production of other countries; exports and imports; world trade.

**Copy seen:** DLC.

**20131. ALENITSYN, V. D.** Voguly. (In: Entsiklopedicheskiy slovar', 1890-1904, v. 6a, p. 704-705) **Title tr.:** The Voguls.

Contains account of this disappearing tribe ("about 6500") of Finnic origin living on the Ural Mountain slopes, and in Tobol'sk and Perm provinces; early

Russian colonization of their territories; their enforced migrations, their nomadic and settled groups; various tribal names; their racial, cultural and linguistic relationship to Magyar tribes; their comparatively highly developed culture: legends, songs, story-telling; their mode of living: fishing and hunting; social organization, villages, dwellings and clothing; their domestic animals: dogs and reindeer; their psychological characteristics and affinity with the Russian type and way of life; their trading and fairs; forced christianization and religious beliefs; their economic prosperity, literary development, assimilation with Russians.

**Copy seen:** DLC.

**20132. ALEXANDER, CHARLES PAUL, 1889-** Dipterous insects of the family Tipulidae from the Pribilof Islands, Alaska. (In: Hanna, G. D., and others. Insects of the Pribilof Islands, Alaska, 1921. p. 183-84)

Contains a report on two kinds of these flies; one of them "believed to be a new species", *Tipula (Nesotipula) pribilovia* n. sp., is made the type of a new subgenus: *Nesotipula*.

**Copy seen:** DSI-M.

**20133. ALFERAKI, SERGEI NIKOLAEVICH, 1850-1918.** Gusi Rossii. Moskva, Tipo-lit. I. N. Kushnerev, 1904. 7, 189 p. illus., 25 color plates. **Title tr.:** The geese of Russia.

A comprehensive and handsomely illustrated monograph on these birds in Russia. Following an introductory chapter on the morphology and biology of the group, and a key to the species dealt with, are sections dealing with individual forms; each section includes a general description of the species, common (including English and American) and scientific terminology; detailed description of adults and young; morphometry; geographical distribution; nests, food, etc. A considerable proportion of the species described occur in arctic regions. The account concludes with a chapter (p. 177-83) on the eggs of Russian geese, by G. F. Gëbel, and (p. 84-89) excerpts from a diary written on Kolguev Island in 1902 by S. A. Buturlin. Bibliographical footnotes.

**Copy seen:** DLC.

**20134. ALFKEN, J. D.** Beitrag zur Kenntniss einiger Bienen Finnlands. (Notulae entomologicae, 1924. Årg. 4, häft. 2, p. 33-40) **Title tr.:** A contribution to the knowledge of some bees of Finland.

Contains a study of geographic races and aberrations of some bees native to Finland, with descriptions of two new species and one variety and critical notes on some other species, including *Megachile analis* var. *obscura* occurring in Finnish Lapland. **Copy seen:** MH-Z.

**20135. ALFTHAN, A. E.** Hafsutterns och pelssälens geografiska utbredning. Helsingfors, 1903. 32 p. table. (Geografiska föreningen i Finland. Meddelanden, 6:12) **Title tr.:** The geographic distribution of the sea otter and the fur seal.

Contains an account of the hunting of sea otters (*Enhydra marina*) in the Bering Sea region, commencing with the Japanese (supposedly some thousand years ago) and continuing to 1901, when extinction of the species was feared. Also an account of the fur seals (*Otaria ursina* and *Arctocephalus australis*) believed to have immigrated from the Antarctic to the northern Pacific, the Commander and Pribilof Islands. The unrestricted hunt for them in southern and northern hemispheres, the Russian-American Company's restrictions of 1842 and their beneficial effect, the dangers of "pelagic sealing" and the restrictions on it, insufficiency of protective measures, etc., are discussed. The total catch of fur seals 1746-1901 and of sea otter 1891-1901 are presented in tabular form. Bibliographical footnotes. Summary in English.

**Copy seen:** DLC.

**20136. AL'KOR (KOSHKIN), IĀ. P.** Ėvenki. (In: Bol'shaya sovetskaya ènsiklopediĭa, 1926-47. v. 63, col. 34-37) **Title tr.:** The Ėvenki.

Contains account of this Tungus group (known by various tribal names) inhabiting northern Yakutia, central Kamchatka and the Okhotsk seacoast: their physical characteristics and language; history; cultural and economic development; conquest by Russians in the 18th century, uprisings, subsequent subjugation and organized exploitation; their religion, way of life, their hunting, trapping, reindeer-breeding, fishing, and sea-hunting industries; transport dogs and horses; seasonal wanderings, food and clothing; their social organization based on family and their national consolidation; struggle with shamanism and feudalism; schools and education; gold mining in the Okhotsk region.

**Copy seen:** DLC.

**20137. AL'KOR (KOSHKIN), IĀ. P.** Ėveny. (In: Bol'shaya sovetskaya ènsiklopediĭa, 1926-47. v. 63, col. 41-43) **Title tr.:** The Ėveny.

Brief sketch of this coast-dwelling Tungus group (also known as Lamuts) numbering about 5000 and widely scattered over northern Yakutia, southern Kamchatka and the Okhotsk seacoast; their various tribal names; their racial and linguistic relationship to the Ėvenki; their history and migrations; their acculturation process; weapons and implements; subjugation and exploitation by the Russians; christianization and traditional religion; semi-feudal system; their nomadic way of life; fishing and sea-hunting, trapping; transport dogs and horses, skiing and reindeer-driving; their economic standards and social stratification; their family life and clan organization; struggle against Kulaks and semi-feudalism; introduction of collective reindeer-farms; fishing and sea industry, gold-mining; recent educational and health progress; their nationalization and textbooks.

**Copy seen:** DLC.

**AL'KOR (KOSHKIN), IĀ. P.,** see also Shternberg, L. IĀ. Gilĭaki, orochi, gol'dy, negidal'tsy, alny. 1933. No. 26166.

**20138. ALLAN, DOUGLAS ALEXANDER, 1896-** . The geology of Spitsbergen. (Liverpool Geological Society. Proceedings, 1940-41, pub. 1942. v. 18, p. 37-48, illus., plate)

President's address, Oct. 12, 1940, giving a general description of geologic history and deposits of Svalbard.

**Copy seen:** DGS.

**20139. ALLARD, E.** Notes on the Kaska and upper Liard Indians. (Primitive man, 1929. v. 2, p. 24-26)

Information from a Catholic missionary resident in the vicinity, on three small nomad groups of little-known Indians in Yukon Territory and British Columbia; their areas, hunting and fishing, disappearance of polygamy, etc.

**Copy seen:** DLC.

**20140. ALLEN, FREDERICK M., and F. K. SAFFORD, Jr.** Experiments on local hypothermia for treatment of burns and frostbite. (Archives of surgery, Sept. 1950. v. 61, p. 515-23)

Contains a report on the value of local cooling for treatment of experimental burns and frostbite. In rats, local hypothermia proved beneficial for treat-

ment of burns, but these animals proved unsuitable for testing hypothermic therapy in frostbite. In cats and dogs, even brief prolongation of the frozen state increased injury; rapid thawing of frozen tissue, followed by moderate cooling showed beneficial effects in them. Bibliographical footnotes.

**Copy seen:** DLC.

**20141. ALLER, G. D.** Kislye i osnovnye porody poluostrova Chel'vuskina; petrograficheskii ocherk. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1939. Ser. 2, chast' 68, no. 2, p. 255-86, illus., plate, fold. map) **Title tr.:** Acid and basic rocks of Chelyuskin Peninsula; a petrographic sketch.

**Contains** a sketch of the geological structure of the northern part of Taymyr Peninsula; the region around Faddeya Bay, northward to Cape Chelyuskin (roughly 76°-78° N. 101°30'-107° E.), investigated by the author in 1932-33. A mineralogical and chemical study of collected material is given with descriptions and analyses. Summary in English.

**Copy seen:** MH-Z.

**20142. ALLER, G. D.** New data on the geological structure of the region of the Taymyr folding. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1936. nouv. ser., v. 2 (11), no. 6 (92), p. 249-53)

**Contains** geological, orogenic and paleontological outline of the region ("Taimyr Peninsula, the King Oscar Peninsula, the Chelyuskin Peninsula, the islands of the Nordenskjöld Archipelago, Russian Islands, the Severnaya Zemlia, Little Taymyr, Starokadomsky, and Samuel Islands"), preceded by an account of its topography and petrography. Bibliography (15 items).

**Copy seen:** DLC.

**20143. ALLGEIER, SEPP.** Die Jagd nach dem Bild; 18 Jahre als Kameramann in Arktis und Hochgebirge. Stuttgart, J. Engelhorn nachf., 1931. 159, [1] p., front., illus. **Title tr.:** Hunting after pictures. 18 years as cameraman in the Arctic and high mountains.

**Contains** account of the author's career and experience since 1911 as photographer, richly illustrated with his own photographs. Includes the "Ufa" film expedition in West Spitsbergen and Greenland 1926, as well as his contributions from Scotland and Norway for the film about the Pole.

**Copy seen:** DLC.

**20144. ALLGÉN, CARL ALGON JÖNSON, 1886-** . Das Genus *Algeniella* Embrik Strand. (In: Festschrift Dr. E. Strand, 1936. Bd. 2, Heft 1, p. 227-29.) **Title tr.:** Genus *Algeniella* Embrik Strand.

**Contains** a diagnosis of *Algeniella*, the genus of free-living marine worms (Nematoda) of brackish waters (river estuaries), with critical notes and data on geographic distribution, including *A. hyalocephala* native to Barents Sea.

**Copy seen:** DSI-M; MH-Z.

**20145. ALLGÉN, CARL ALGON JÖNSON, 1886-** . Letzter Bericht über freilebende marine Nematoden aus dem Schalensand- und Kiesboden der Westküste Norwegens. (Arkiv för zoologi, 1946. Bd. 37A, no. 15, p. 1-26, illus.) **Title tr.:** Recent contribution to the knowledge of free-living nematodes from shell-bearing sand and gravel layers of the western coast of Norway.

**Contains** a list of localities, including 26 stations north of the Arctic Circle, a systematic list of 47 free-living marine nematodes found in sand and gravel deposits on the western coast of Norway, with synonymy and data on habitat and distribution in Norway; includes descriptions of five new species and one variety; most of the species are native to northern regions. Bibliography (28 items).

**Copy seen:** MH-Z.

**20146. ALLGÉN, CARL ALGON JÖNSON, 1886-** . Die Nematoden-Familie Tripyloididae, ihre Arten und Verwandtschaft. (Arkiv för zoologi, 1947, pub. 1948. Bd. 39A, no. 15, p. 1-35, illus.) **Title tr.:** The nematode family Tripyloididae, its species and their relationship.

**Contains** a critical revision of 22 marine nematodes of the fam. Tripyloididae, with keys to the species and descriptions; includes *Bathylaimus septentrionalis* ("Arctic; Kara Sea, Norway?") and *Parabathylaimus profundis* from Murmansk coastal waters, also a discussion of the phylogeny and relationship of the species.

**Copy seen:** MH-Z.

**20147. ALLGÉN, CARL ALGON JÖNSON, 1886-** . Die Odontophoren. (In: Festschrift Dr. E. Strand, pub. 1936. Bd. 2, Heft 1, p. 211-24.) **Title tr.:** Species of the genus *Odontophora*.

**Contains** data on systematics, phylogeny and affinity of the genus *Odontophora* of free-living marine roundworms (Nematoda), a key for the determination of

twelve species and their brief diagnoses, including *O. impar* and *O. limalis* from Ekaterinskaya Gavan, on the Murman coast. **Copy seen:** DSI-M; MH-Z.

**20148. ALLGÉN, CARL ALGON JÖNSON, 1886-** . Ueber einige freilebende Nematoden insb. aus der litoralen Region des Lofoten-Archipels. Tromsø, K. Karlsson, 1933. 14 p. illus. (Tromsø, Norway. Museum Aarshefter, 1929, Bd. 52, no. 3.) **Title tr.:** On some free-living nematodes especially from the littoral region of Lofoten Islands.

**Contains** a critical study of six free-living roundworms (Nematoda) from the littoral zone of Lofoten Islands, northern Norway, with measurements of several specimens. **Copy seen:** MH-Z.

**20149. ALLGÉN, CARL ALGON JÖNSON, 1886-** . Über einige Tiefsee-Nematoden aus dem Loppshavet im nördlichen Norwegen. (Norske videnskabers selskab, Trondhjem. Forhandlingar, 1946. Bd. 19, nr. 3, p. 7-10.) **Title tr.:** On some deep-sea nematodes from Loppshavet in northern Norway.

**Contains** descriptive notes on five species of marine roundworms (Nematoda) from Loppshavet (i. e. Lapp Sea, about 66°30' N. 22° E.), in Finnmark waters, synonymy and a list of 43 localities on the western Norwegian coast, including seven in Tromsø and Finnmark. **Copy seen:** MH.

**20150. ALLGÉN, CARL ALGON JÖNSON, 1886-** . Westnorske marine Nematoden. (Arkiv för zoologi, 1946. Bd. 37A, no. 14, p. 1-32, illus., text map.) **Title tr.:** West Norwegian marine nematodes.

**Contains** a list of the stations, including ten above the Arctic Circle, and a systematic list of 38 species of marine nematodes, including descriptions of seven new species and at least eleven species native to waters of northern Norway, with tabulated data on distribution in various regions, including the Arctic, and a bibliography (39 entries).

**Copy seen:** MH-Z.

**20151. ALLIED CONVOYS** to Murmansk and Arkhangelsk. 1941-45. (Polar record, Jan. 1950, v. 5, no. 39, p. 427-36, 4 illus. on plate, tables)

**Contains** an introductory note of the agreement, between the U.S.A., U.S.S.R. and Great Britain, Sept. 1941, on the ex-

change of war goods and materials, followed by a detailed account of the convoys carrying this cargo between British and the Russian ports, their composition, course, covering force, and their fate. The account covers the period Aug. 1941-May 1945. A statistical summary is appended, of the vessels and British casualties involved, the types, amounts and value of the supplies. This paper was prepared by an Admiralty representative who preferred to remain anonymous.—Footnote. **Copy seen:** CaMAI; DLC.

**20152. ALM, CARL GUSTAV, 1888-** . Om *Braya glabella* Richards, och dess utbredning i Skandinavien. (Acta florae Sueciae, 1921. Bd. 1, p. 245-64, plate 16, text map.) **Title tr.:** On *Braya glabella* Richards, and its distribution in Scandinavia.

**Contains** a comparative systematic study of an herb, *Braya glabella*, and related species, *B. alpina* and *B. purpurascens*, with detailed data on distribution in Scandinavia (a list of 45 localities) and in other arctic regions (Greenland, arctic America and Kola Peninsula); bibliography (48 items). **Copy see:** MH-A.

**20153. ALM, GUNNAR OLAF, 1889-** . Monographie der schwedischen Süßwasser Ostracoden nebst systematischen Besprechungen der Tribus Podocarpa. (Zoologiska bidrag från Uppsala, 1916, pub. 1915. Bd. 4, p. 1-247, illus., plate 1.) **Title tr.:** A monograph of Swedish fresh-water Ostracoda with a systematic discussion of the tribe Podocarpa.

**Contents tr.:** Part 1 (p. 3-33), introduction and a general systematic discussion; pt. 2 (p. 34-159), an enumeration of Swedish fresh-water Ostracoda; pt. 3 (p. 160-237), biology of fresh-water Ostracoda; a bibliography (264 items), p. 238-47. In the second part, 74 species are listed, including at least 15 native to Swedish Lapland; a table for the determination of Swedish species of Ostracoda is given on p. 155-59.

**Copy seen:** MH-Z.

**20154. ALM, JOSEF.** Bows and bow-shooting among the Lapps. (Ethnos, 1936, Bd. 1, no. 6, p. 153-60, 2 illus.)

**Contains** description, noting similarity with the Ostyak bow.

**Copy seen:** DSI-M; InU.

**20155. ALPINE CLUB OF CANADA.** The Mount Logan Expedition. (Ca-

nadian alpine journal, 1925. v. 15, p. 1-126, 47 plates (2 fold.))

A collection of papers describing the plans, organization, and achievements of an eight-man party of Canadians and Americans, who in June 1925 made the first ascent of Mt. Logan, the 14,000 ft. peak which lies in the extreme southwest corner of Yukon Territory.

*Contents:* Hickson, J. W. A. An appreciation. p. 1-8.

Wheeler, A. O. A few more words of appreciation. p. 9-14.

LAMBART, H. F. Topographic and geographic exploration of the Mt. Logan region. p. 15-25.

MacCarthy, A. H. Preliminary explorations. p. 26-46.

Foster, W. W. The story of the expedition. p. 47-58.

MacCarthy, A. H. The climb. p. 59-80.

CARPE, A. Observations. p. 81-98.

LAING, H. M. Wild life of the upper Chitina. p. 99-114.

MacCARTHY, A. H. Food. p. 115-20.

Hall, H. S., Jr. Notes on equipment. p. 121-26.

The papers by H. F. Lambert, A. Carpe, H. M. Laing and A. H. MacCarthy (Food) appear in this Bibliography under their respective authors' names.

**Copy seen:** DGS.

**20156. ALSETH, IDA B.** Self-emptying lake. (Natural history, Jan. 1952. v. 61, no. 1, p. 8-13, illus., map)

*Contains* an account of Lake George, located 40 miles east of Anchorage, Alaska; the way its outlet is blocked by the Knik Glacier, causing a rising of the lake's water; the break-through of the water (periodic) and change of the lake into three small portions; accessibility of the area, etc.

**Copy seen:** DLC.

**20157. ALSTON, EDWARD RICHARD, and J. A. HARVIE-BROWN.** Notes from Archangel. (Ibis, 1873. Ser. 3, v. 3, p. 54-73)

*Contains* a list of 96 birds collected or observed by the authors in the summer of 1872 in the vicinity of Arkhangel'sk, northern European Russia, with notes on abundance, nests, eggs and local distribution. See also *Arctic Bibliography* No. 6741-6742 for other ornithological publications from this trip.

**Copy seen:** MH-Z.

**20158. ALTER, AMOS J.** Arctic sanitary engineering. Washington, D. C., Federal Housing Administration, 1950. 2 p.l.,

IV, ii, 106 p., incl. 60 plates (illus. maps, fold. table, diags.)

*Contains* study (by the director of Division of Sanitation and Engineering, Territorial Dept. of Health, Juneau) of "sanitary engineering as it applies to water supply, sewage disposal and garbage and refuse disposal . . . in regions where the subsoil remains continuously frozen . . . based on the latest data available . . . actual observations and practical experience . . . of the Alaska Department of Health personnel . . . reports and literature including Canadian, Russian and American sources."

Introductory material on low temperature effects on biological, physical and chemical reactions, on seasonal sunlight, and effective use of resources and materials. Discussion of surface, supra-, intra-, and sub-permafrost water supplies; water treatment including structures, aeration, chemical mixing, sedimentation, filtration, water softening and corrosion control; water distribution by tank truck, seasonal systems, utilidor, and preheating and recirculation systems; sewage disposal and treatment in all its aspects; and garbage and refuse disposal. Notes on utility construction costs. Bibliography (62 items). *Appendices:* (a) Permafrost area of Alaska. (b) Arctic sewage disposal practice. (c) Alaska climatological data. (d) Heating devices for sanitary facilities.

" . . . The possible sources of water in Arctic regions are melted snow and ice, surface water, suprapermafrost ground water, intrapermafrost artesian water, and subpermafrost water. Community water supplies are usually treated chemically or by settling and distributed in pipes placed in heated conduits. Sewage in small communities is usually collected into barrels and dumped on the tundra. In larger communities sewage system pipes are placed in heated conduits, or utilidors. Such sewage is usually disposed by dilution in larger water courses and tidal waters. Several sewage treatment plants have been built in larger communities. Garbage and refuse are collected and disposed in dumps or tidal waters. It is not practical to bury garbage."—SIPRE.

**Copy seen:** DLC.

**20159. ALTER, AMOS J.** Arctic trichinosis. Report on garbage disposal in permafrost areas II, for the Subcommittee on Waste Disposal. (National Research Council. Committee on Sanitary Engi-

neering and Environment. Bulletin, 1950. p. 449-57, illus., tables)

Author stresses the fact that many cases of trichinosis have been reported from the Arctic. Improper garbage and waste disposal and the habits of man, dog and bear offer ample opportunity for trichinae to change hosts. Though it is not proven how trichinosis spreads in the Arctic "the implications are sufficient to assume that man becomes infested by eating the infested meat of land or sea mammals. The recommendations include further study of the life cycle and transmission methods of *Trichinella spiralis*, and arctic meat storage and cooking methods. It is also recommended that garbage and refuse storage, collection and disposal be made inaccessible to land and sea carnivora."—from summary, also SIPRE.

Copy seen: DSG.

**20160. ALTER, AMOS J.** Relationships of permafrost to environmental sanitation. (In: Alaskan Science Conference . . . 1950. Selected papers, 1952. p. 240-53 incl. graph, diagr.)

"Areal extent, continuum, temperature, depth, and type of permafrost have a direct effect upon selection of sanitary measures and facilities in low temperature regions. The effects of permafrost on environmental health control measures and facilities are described. Inadequate drainage caused by permafrost results in breeding areas for insects. Inexpensive refrigeration for food is provided by ice cellars dug in permafrost."—SIPRE. Bibliography (31 items).

Copy seen: DAI; DLC.

**20161. ALTER, AMOS J.** Water supply in Alaska. (American Water Works Association. Journal, June 1950. v. 42, p. 519-32, illus.)

Contains note on physiography and population of Alaska; analysis of water supply in the Pacific mountain, central plateau, and arctic slope regions, including comment on permafrost problems; and a discussion (in some detail) of protection of equipment and installations in permafrost conditions, distribution system problems, and construction costs.

"The main water sources of the Pacific Mountain region of Alaska are mountain streams and lakes fed from rain and snow. Less than 25 per cent of the supplies are chlorinated. Satisfactory water supplies in the Central Plateau and the Arctic Slope regions are limited because surface supplies freeze, and much of the ground

water is in a frozen state. Suprapermafrost water may be obtained through bored, dug or driven wells, or infiltration galleries, but the supply is irregular and often insufficient. Intrapermafrost water may be tapped by using drilled or thawed and jetted wells, but the occurrence of such sources is rare and unreliable. Sub-permafrost water is difficult to locate, expensive, and often highly mineralized. Special provision must be made for the distribution of water in permafrost regions. Water may be heated and circulated in the distribution systems, or it may be distributed from mains placed in heated conduits."—SIPRE.

Copy seen: DLC.

**20162. ALTER, AMOS J.** Water supply problems in low temperature areas. (In: Alaskan Science Conference . . . 1950. Selected papers, 1952. p. 219-39 incl. tables, graphs, diagrs.)

"Melted ice and snow are the most common sources of water in low temperature regions [north of 58° N. lat.]. Sub-permafrost water sources such as deep wells are dependable water supply sources. Various water distribution systems with necessary precautionary measures are described. Utilidors are constructed of wood or concrete which are placed in conduits heated by warmed air or steam. Recirculating water mains are constructed to form a closed circuit and heating plants are placed near the point where the water enters the system. Methods of weather-proofing well-houses in the arctic are given. Temperature has an appreciable effect on practically all water treatment processes. Water supply structures are designed to minimize the effects of unstable soil conditions."—SIPRE.

Copy seen: DAI; DLC.

**20163. ALTER, AMOS J.** Water supply problems of the Arctic. (Alaska's health, 1949. v. 7, no. 3, p. 1-3)

Contains sections on: permafrost and water supply; water and the development of permanent communities; lake water; ground water; water distribution systems (including utilidors and recirculating systems); need for research.

Copy seen: DSG.

**20164. ALTMANN, F. E. W.** Kanada, Geographie, Geschichte, Wirtschaft. München, I. Belej, \*1949. 240 p., 63 illus., fold. map. Title tr.: Canada, geography, history, economy.

Contains (in this survey handbook for

general readers) chapters on the geography (noting conditions in the North in relation to area, climate, animal and plant life); historical development; population (including Indians and Eskimos); provinces and territories (including Yukon and Northwest Territories); economic structure (including hunting and fishing industries). Bibliography (95 items). **Copy seen:** DLC.

**20165. ALTMANN, F. E. W.** Der norden Kanadas - Lebensquelle von Morgen. (Polarforschung, 1950, pub. 1951. Bd. 2, Jahrg. 20, p. 356-57) **Title tr.:** Northern Canada, vital center of tomorrow.

Brief résumé of 20th century development of industry in Canada and activities in the North directed toward a future exploitation of the region.

**Copy seen:** DGS.

**20166. ALYMOV, V. K.** Promyshlennost' Murmanskogo okruga v pervom pátiletii. (Karelo-Murmanskii kraï, 1933. v. 11, no. 9-10, p. 4-8, illus.) **Title tr.:** The industry of the Murmansk district during the first five-year plan.

**Contains** figures (absolute and percentage), on the industrial production, its value and increase; number of workmen, etc., employed in the following industries: fishing and whaling, mining and chemicals, forest and timber, boat-building, brick-making and several minor branches of industry. **Copy seen:** DLC.

**20167. ALYMOV, V. K.** Sovremennoe sostoiânie olenevodstva na Kol'skom poluostrove. (Sovetskaiâ Aziâ, 1928. god 4, no. 4, p. 84-90) **Title tr.:** The present state of the reindeer breeding on the Kola Peninsula.

**Contains** an economic survey of the reindeer industry, in decline in this region since World War I: 74,000 head in 1914, only 49,500 in 1927; reindeer are the source of maintenance of 348 Lappish families, 108 Zyryan, 707 Russian, 26 Samoyedic, and 137 of other nationalities. The best off are the Zyryans averaging 161 head of reindeer per family, then follow Samoyeds (83 head) and Lapps (66 head); other statistics for 1927 are compared with those of previous years.

**Copy seen:** DLC.

**20168. AMALITSKIÏ, VLADIMIR PROKHOROVICH, 1860-1917.** Dnevnik nablûdeniï po maloi Severnoi Dvine;

s kratkoi biografiei avtora. Leningrad, izd-vo Akad. nauk, 1931. 57 p., illus., plate, tables. (In: Amalitskii, V. P., and P. A. Pravoslavlev. Severo-Dvinskii raskopki, no. 6) **Title tr.:** Diary of observations along the Little Northern Dvina; with a short biography of the author.

**Contains** (p. 5-12) a biography written by A. P. Karpinskii on the occasion of the 70th anniversary of Amalitskii's birth, with a list of his publications (39) 1884-1927. The "diary" (p. 13-57) written between 1910 and 1914 is a summary account of the area where Amalitskii and his party excavated for several years apparently beginning in the summer of 1899. The extensive materials collected were taken to Warsaw University where Amalitskii was professor and later (from 1908) transferred to the Russian Academy of Sciences where (in 1931) they formed the Northern Dvina Gallery in the Academy's Paleontological Museum. This "diary" (p. 13-57) deals largely with the stratigraphy and paleontology of the river's bed and vicinity. It includes a general description of the river; its extent; amount of water; depth and course; banks and their character, structure and terraces; and settlements. This is followed by a detailed description of a series of profiles of the right bank and a few of the left. The account of each profile usually contains data on its location, morphology, altitude, incline and a detailed stratigraphy giving the thickness, petrological character of the layers and their paleontological inclusions. Islands of the river are also dealt with, and in some cases the surface soil and vegetation of the banks.

**Copy seen:** DGS.

**20169. AMALITSKIÏ, VLADIMIR PROKHOROVICH, 1860-1917.** Dvinosauridae. Petrograd, 1921. [ii], 16 p., 4 plates. (In: Amalitskii, V. P., and P. A. Pravoslavlev. Severo-Dvinskii raskopki, no. 1)

**Contains** description of a new amphibian genus *Dvinosaurus*, n. g. and *D. primus*, *D. secundus* and *D. tertius* n. spp., based on the study of fossil remains discovered by the author in Permian deposits of the Northern Dvina River valley in Arkhangel'sk province; published posthumously from the manuscript prepared in 1916.

**Copy seen:** MH-Z.

**20170. AMALITSKIĬ, VLADIMIR PROKHOROVICH, 1860-1917, and P. A. PRAVOSLAVLEV.** Severo-Dvinskíe raskopki professora Amaliťskogo, no. I-VI. Petrograd-Leningrad, izd-vo Akademii nauk SSSR, 1921-31. 6 pt.: (I) 16 p., 4 plates; (II) 14 p., 3 plates; (III) 117 p., illus., 13 plates; (IV) 20 p., illus., 3 plates; (V) 10 p., illus., plate; (VI) 57 p., plate (port.), diags. **Title tr.:** The Northern Dvina excavations of Prof. V. P. Amaliťskii, no. I-VI.

**Contents tr.:** No. I (1921). AMALITSKIĬ, V. P. Dvinosauridae.

No. II (1921). AMALITSKIĬ, V. P. Seymouridae.

No. III (1927). PRAVOSLAVLEV, P. A. Gorgonopsidae.

No. IV (1927). PRAVOSLAVLEV, P. A. A gorgonopsid from the Northern Dvina.

No. V (1927). AMALITSKIĬ, V. P. The Northern Dvina thercephalian *Anna Petri*.

No. VI (1931). AMALITSKIĬ, V. P. Diary of observations along the little Northern Dvina; with a brief biography of the author.

Results of Amaliťskii's discovery of fossil mammal remains near Kotlas (61° N. 46° E.) on the Northern Dvina River in 1901. The excavations were carried on over many years beginning 1899, and the results worked on after his death in 1917, by his widow, A. P. Amaliťskaia, and P. A. Pravoslavlev, and were still to be completed in 1931. No. 1-6 (as listed above) appear in this Bibliography under author's name.

**Copy seen:** DGS (pt VI); MH-Z (pt. I-VI).

**20171. AMALITSKIĬ, VLADIMIR PROKHOROVICH, 1860-1917.** Severo-Dvinskii terotsefal, *Anna Petri* gen. et sp. nov. Leningrad, izd-vo Akad. nauk, 1927. 10 p., illus. plate. (*In:* Amaliťskii, V. P., and P. A. Pravoslavlev. Severo-Dvinskíe raskopki, no. 5) **Title tr.:** The Northern Dvina thercephalian *Anna Petri* gen. et sp. nov.

**Contains** the description (based chiefly on two well preserved skulls) of *Anna Petri* n. gen. et sp. of fossil reptiles from the Upper Permian deposits at Sokolki, in the Northern Dvina region of Arkhangel'sk province. The manuscript was prepared by the author in 1913 and published posthumously.

**Copy seen:** MH-Z.

**20172. AMALITSKIĬ, VLADIMIR PROKHOROVICH, 1860-1917.** Seymouridae. Petrograd, 1921. 14 p., 3 plates. (*In:* Amaliťskii, V. P., and P. A. Pravoslavlev. Severo-Dvinskíe raskopki, no. 2)

**Contains** descriptions of a new subgenus of fossil reptiles, *Kollassia* n. subgen., and *K. prima* and *K. secunda* n. spp. from Permian deposits near Sokolki, Northern Dvina region in Arkhangel'sk province, and discussion of the systematic position of *Kollassia* with comparison with *Seymouria*.

**Copy seen:** MH-Z.

**AMBLE, OLE, 1913-**, see *Polarårbrøken*. Norsk Polarinstitutt. 1951. No. 25177.

**20173. AMBROZ, A. I.** Vostochnosakhalskaiâ sel'd' raióna Nyysk-Chalvo. (Rybnoe khozâistvo Dal'nego Vostoka, 1931, no. 5-6-7, p. 129-35, tables) **Title tr.:** East Sakhalin herring in the Nyysk-Chayvo region.

Report of a short-term investigation, dealing with water temperature, also age and size groups of the fishes caught during the brief period of June 18-Aug. 3, 1930.

**Copy seen:** DLC.

**20174. AMERICAN AUTOMOBILE ASSOCIATION.** Alaska and the Alaska Highway. Washington, 1949. 23 p., illus., maps. "Issued annually in the spring."

A brief guide through Alaska containing general information, list of principal towns and points of interest; temperature tables; sketch of the Alaska Highway with map; map of Alaska; description and strip-maps of important highway routes.

**Copy seen:** DLC.

**20175. AMERICAN CONCRETE INSTITUTE.** Design of an intake structure for an arctic water supply. (American Concrete Institute. Journal, Sept. 1950. v. 22, p. 77 (*Letters from readers*))

"The inside dimension of the cylindrical shaft is to be 21 ft. It will have a maximum head of 45 ft. above the bedrock foundation, and will be subjected to loads of 5-ft. thick sheets of ice throughout most of its height. The ice sheet will act against the tower of an impounding reservoir. The mean minimum and maximum temperatures of the area are 15° and 27° F., respectively."—SIPRE.

**Copy seen:** DLC.

**AMERICAN COUNCIL OF LEARNED SOCIETIES DEVOTED TO HUMAN-**

**ISTIC STUDIES. RUSSIAN TRANSLATION PROJECT**, see Andreev, A. I. Russian discoveries in the Pacific & North America. 1952. No. 20215.

**AMERICAN COUNCIL OF LEARNED SOCIETIES DEVOTED TO HUMANISTIC STUDIES. RUSSIAN TRANSLATION PROJECT**, see also Berg, L. S. Natural regions U.S.S.R. 1950. No. 20600.

**20176. AMERICAN FORESTS.** Pulp mills for Alaska. (American forests, 1947. v. 53, p. 447, illus.)

Contains description of Southeast Alaska forests of the Petersburg and Thomas Bay area and those of the Ketchikan area recently opened for sale and exploitation of 1,500,000,000 cubic feet of timber, by the U. S. Forest Service. The industrial prospects, financial aspects, etc., are indicated.

*Copy seen:* DA.

**AMERICAN GEOGRAPHICAL SOCIETY, New York**, Juneau Ice Field Research Project, 1948- , see under Juneau . . . in Expeditions section of index.

**20177. AMERICAN GEOGRAPHICAL SOCIETY, New York.** Pioneer settlement, cooperative studies by twenty-six authors. New York, 1932. vi, 473 p. maps, diagrs. (Its Special publication, no. 14)

Contents include GEORGESON, C. C. The possibilities of agricultural settlement in Alaska.

VOSHCHININ, V. P. The bases of colonization in north European Russia.

PRASOLOV, L. I. Climate and soils of northern Eurasia as conditions of colonization.

Each of these papers appears in the Bibliography under its author's name.

*Copy seen:* DLC.

**20178. AMERICAN GEOGRAPHICAL SOCIETY, New York.** Readings in the geography of North America; a selection of articles from the Geographical review. New York, 1952. 466 p. illus., plates, maps. (Its reprint series, no. 5).

Contents include: Jenness, D. Eskimo art. p. 23-36, illus. See *Arctic Bibliography*, No. 8030.

Albright, W. D. Gardens of the Mackenzie, p. 101-122, illus., map. See *Arctic Bibliography*, No. 206.

Field, W. O. Observations on Alaskan coastal glaciers, p. 227-45, illus. See *Arctic Bibliography*, No. 4948.

HARE, F. Kenneth. Climate and zonal divisions of the boreal forest formation in Eastern Canada, p. 446-66, illus., maps., q. v. *Copy seen:* CaMAI.

**AMERICAN GEOGRAPHICAL SOCIETY, New York**, see also Field, W. O. Gazetteer Alaskan glaciers. 1941. No. 21782.

**AMERICAN GEOGRAPHICAL SOCIETY, New York**, see also Glaciological Conference 1st, N. Y. 1949. Report. 1950. No. 22129.

**AMERICAN GEOGRAPHICAL SOCIETY, New York**, see also Glaciological Conference 2d, N. Y. 1951. Proceedings. 1951. No. 22130.

**AMERICAN GEOGRAPHICAL SOCIETY, New York**, see also Haley, T. R., & others. Medical reports Juneau Ice Field 1949-51. 1951. No. 22377.

**AMERICAN GEOGRAPHICAL SOCIETY, New York**, see also Miller, M. M. Progress report logistical operations JIRP, 1949-51. 1951. No. 24365.

**AMERICAN GEOGRAPHICAL SOCIETY, New York**, see also Nicholson, N. L. Resources of Arctic. 1952. No. 24637.

**AMERICAN GEOGRAPHICAL SOCIETY, New York**, see also Wright, J. K. Geog. in making: Am. Geog. Soc. 1952. No. 27491.

**AMERICAN GEOPHYSICAL UNION**, see Field, W. O. Gazetteer Alaskan glaciers. 1941. No. 21782.

**AMERICAN INSTITUTE OF PHYSICS.** Temperature, its measurement and control in service and industry, N. Y., 1941, see Burton, A. C. Operating char. human thermoreg. mechanism. 1941. No. 21038.

**AMERICAN INSTITUTE OF PHYSICS.** Temperature, its measurement and control in science and industry, N. Y., 1941, see also Luyet, B. J. Resistance living matter low temp. 1941. No. 24048.

**AMERICAN INSTITUTE OF PHYSICS.** Temperature, its measurement and control in science and industry, N. Y., 1941, see also Sheard, C., & others. Skin temp. of extremities. 1941. No. 26096.

**AMERICAN INSTITUTE OF PHYSICS.** Temperature, its measurement and control in science and industry, N. Y., 1941, see also Winslow, C.-E. A. Man's heat

exchanges thermal environment. 1941. No. 27454.

**AMERICAN METEOROLOGICAL SOCIETY.** *Compendium of meteorology*, 1951, see Hare, F. K. Some climatological problems. 1951. No. 22426.

**AMERICAN SOCIETY FOR TESTING MATERIALS.** see Nees, L. A., & A. M. Johnson. Prelim. foundation explor. arctic regions. 1952. No. 24597.

**20179. AMERICAN WILDLIFE.** The last wild buffalo. (American wildlife, Oct. 1924. v. 13, no. 4, p. 4-6, 19, illus., map)

Drawn from Canadian official reports, a description of protective measures, the establishment of Wood Buffalo Park south of Great Slave Lake, and the physical features of the park; with notes on the bison.

**Copy seen:** DI.

**20180. AMERIKANSKIĬ SEVER:** sbornik perevodnykh stateĭ, so vstup. stateĭ I. I. Ermasheva, pod obshcheĭ red. N. N. Baranskogo. Moskva, Izd-vo inostrannoi lit-ry, 1950. 290 p. maps (part fold.) **Title tr.:** The American North; a collection of translated articles, with an introduction by I. I. Ermashev, under editorship of N. N. Baranskii.

**Contents:** Introduction (p. 15-76) by Ermashev: This chapter traces U. S. expansion to the Arctic since the acquisition of Alaska and before. The establishment of weather stations in the North American arctic area, the increased interest in this area and finally the building of military bases there as well as in Iceland, Greenland, etc., is cited as evidence of U. S. aggressive designs against Russia.

**Alaska.** Walker, E. P. A physical-geographic outline of Alaska (see *Arctic Bibliography*, No. 19079).

**Sundborg, A.** The territories of Alaska (see *Arctic Bibliography*, No. 17214).

**Herron, E. A.** Tuberculosis among the native population of Alaska (see *Arctic Bibliography*, No. 7027).

**Oil prospecting in arctic Alaska**, from *World Petroleum*, Feb. 1948.

**The Canadian North.** Taylor, T. G. Colonized lands of the West (see *Arctic Bibliography*, No. 17486, 17488).

**ROBINSON, J. L.** Canada's Western Arctic (q. v.).

**Finnie, R.** (chapters from his *Canada moves north:*) The administration of the Northwest Territories; Transport and

communication in the Northwest Territories; Mineral extraction in the Northwest Territories (see *Arctic Bibliography*, No. 4986).

**Robinson, M. J., and J. L. Robinson.** Fur production in the Northwest Territories (see *Arctic Bibliography*, No. 14702).

**Copy seen:** DLC.

**20181. AMES, ADELBERT, III, and others.** A study of various methods of rewarming men after exposure to extreme cold. (Federation proceedings, Mar. 1948. v. 7, p. 2-3) **Other authors:** R. S. Griffith, D. A. Goldthwait, M. B. Macht, and H. S. Belding.

Contains an abstract of a study on the efficiency of rewarming individuals exposed for one hour to -40° F., as determined by oxygen consumption, skin and rectal temperature, thermal comfort and onset of shivering. Seven means of rewarming were used: (1) strenuous exercise, (2) ambient temperature of 90° F., (3) sleeping bag, (4) ambient temperature of 40° F., (5) moderate exercise, (6) irradiation of face, and (7) of hands. They proved efficient in that order. The way of action of these various means of rewarming is discussed.

**Copy seen:** DLC.

**20182. AMOROSO, E. C., and others.** Reproductive organs of near-term and new-born seals. (Nature, Nov. 1951. v. 168, no. 4279, p. 771-72, illus.) **Other authors:** R. J. Harrison, L. Harrison Matthews and I. W. Rowlands.

Contains a report on macro- and microscopical examinations of the reproductive organs of near-term and full-term fetuses, and new-born and recently born seal pups of both sexes. Three arctic and 3 antarctic species were studied. The findings were essentially similar in all species, and showed a remarkable enlargement of the gonads of all near-term fetuses and new-born pups of both sexes. Details on the hypertrophied tissues and organs are presented and compared with conditions in other species. The causative effect of hormones in this hypertrophy, is discussed. *Bibliography* (14 items).

**Copy seen:** DA.

**AMUNDSEN, ROALD ENGELBREGT GRAVING, 1872-1928,** see Pantenburg, V. Schnellsten Strassen. 1951. No. 24979.

**20183. AMYL'SKIĬ, N.** *Kogda zatsvetaiut zharkie tsvety: o rabote tuze-*

mnykh sovetov i sudov v Turukhanskom krae. (Sovetskaiā Aziā, 1928. god 4, no. 3, p. 54-62) **Title tr.:** When the tropical flowers flourish: on the work of the native soviets and courts in the Turukhansk district.

*Contains* account of self-government and the juridical cases, solved by the native "judges" among the Tungus and Samoyeds, under the new Soviet régime.

**Copy seen:** DLC.

**20184. ANAN'EV, EVGENĬ.** Khoziāeva tundry. (Sibirskie ogni, 1951. t. 30, no. 6, p. 67-100) **Title tr.:** Masters of tundra.

*Contains* account of a journalist's recent trip among the Samoyeds living on both sides of the Gulf of Ob'; describes the town of Novyy Port, (67°42' N. 72°57' E.) built since 1924; a visit to Tambeĭ, the most northern settlement on Yamal Peninsula; sketches of the life of the Samoyed reindeer breeders in the tundra of Gydanskiy Peninsula.

**Copy seen:** DLC.

**20185. ANCELLIN, J.** Rapport de croisière de pêche (morue) en Mer de Barentz, juillet 1948. (International Council for the Study of the Sea. Annales biologiques, 1948, pub. 1949. v. 5, p. 7-8) **Title tr.:** Report on cod-fishery cruise in Barents Sea, July 1948.

French steam trawler *Rouget* (in a regular investigation for the International Council) reports on general meteorology, sea-water depth-temperatures, plankton, and fish-invertebrate associations for three localities (between 71°13'-71°50' N. 42°-46°30' E.); with more detail on sizes and ages of the fish.

**Copy seen:** DF; DSI-M.

**20186. ANCHORAGE DAILY TIMES.** Alaska's struggle for self government. 83 years of neglect. A summary of the colorful circumstances under which throttling controls have been allowed to retard, delay and obstruct Alaska's development . . . Anchorage, Alaska, 1950. 19 p. (Reprinted from the *Anchorage daily times* editorial pages, Mar. 24 to Apr. 19, 1950)

"Drawn principally from a manuscript prepared in 1945 by Mrs. Robert B. Atwood of Anchorage," (—title page), this closely reasoned polemic sets forth historical data to demonstrate trend of Alaskan public opinion from the late 19th century to 1950, when Alaskan statehood was still being sought. **Copy seen:** DI.

**20187. ANDELIN, A.** Anteckningar i Lappska språkets grammatik. (Finska vetenskaps-societeten, Helsingfors. Acta Societatis scientiarum fennicae, 1858. v. 5, p. 343-436) **Title tr.:** Notes on the grammar of the Lappish language.

*Contains* sections on the alphabet-pronunciation and parts of speech: the noun and its declensions, adjective, numerals, pronouns, suffixes, etc.; the verb and its conjugations; adverb; conjunctions, etc. **Copy seen:** DLC.

**20188. ANDELIN, A.** Enare-Lappska språkprof med ordregister. (Finska vetenskaps-societeten, Helsingfors. Acta Societatis scientiarum fennicae, 1861. v. 6, p. 385-508) **Title tr.:** Specimens of Inari-Lappish dialect with a word list.

*Contains* a linguistic and grammatical introduction (p. 385-410); followed by Lappish sayings, tales, etc. (p. 410-59); a Lappish-Swedish vocabulary of approx. 2000 words (p. 460-95); and (p. 496-501) specimens of Inari Lappish text (three tales) with Finnish translation, collected by E. W. Borg while pastor in Utsjoki.

**Copy seen:** DLC.

**20189. ANDER, KJELL, 1902-** . Die boreoalpinen Orthopteren Europas. (Opuscula entomologica, 1949. Bd. 14, häft. 2-3, p. 89-104, text maps) **Title tr.:** Boreal-alpine Orthoptera of Europe.

*Contains* a zoogeographic and ecological study of three species of Orthoptera of alpine-boreal or alpine-arctic group, including *Melanoplus* (*Podisma*) *frigidus* (northern Scandinavia, Kola Peninsula, Obdorsk in western Siberia, Kamchatka, Alaska and Franklin Bay in Canada), *Aeropus sibiricus* (Lena River region and Kamchatka Peninsula) and *Dasyhippus variegatus* (Inari Lappmark in Finland and Verkhoyansk in eastern Siberia); discussion of the origin, ecology, geographic distribution of these insects (especially in Europe) and disjunction of areas; bibliography (68 items).

**Copy seen:** MH-Z.

**20190. ANDER, KJELL, 1902-** . Catalogus insectorum Sueciae, IV. Odonata. (Opuscula entomologica, 1944. Bd. 9, häft. 3-4, p. 157-63, text map) **Title tr.:** Insect catalog of Sweden, IV. Odonata.

*Contains* some notes on the history of the study of dragonflies of Sweden, and a systematic list of 54 species with tabulated data on distribution in 30 geographic regions of Sweden, including all of Lapland and Norrbotten, and in ad-

joining countries. For other parts, see *Catalogus insectorum Sueciae*.

**Copy seen:** MH-Z.

**20191. ANDER, KJELL, 1902-** . *Catalogus insectorum Sueciae*, V. Orthoptera. (Opuscula entomologica, 1945. Bd. 10, häft. 3-4, p. 127-34, text map) **Title tr.:** Insect catalog of Sweden, V. Orthoptera.

*Contains* brief notes on the history of the study of Orthoptera in Sweden; a list of 49 species with tabulated data on distribution in thirty natural regions of Sweden, including Lapland and Norrbotten, and in adjoining countries; and notes on some of the species listed. For other parts, see *Catalogus insectorum Sueciae*.

**Copy seen:** MH-Z.

**20192. ANDER, KJELL, 1902-** . *Catocala adultera* Men., funnen i Lappland. (Opuscula entomologica, 1940. Bd. 5, häft. 2-4, p. 48) **Title tr.:** *Catocala adultera* Men. found in Lapland.

*Contains* a report of the finding of a large moth, *Catocala adultera*, in Kiruna region, Swedish Lapland, the northernmost locality for that species.

**Copy seen:** MH-Z.

**20193. ANDER, KJELL, 1902-** . De Svenska odonaternas djurgeografi. Bidrag till kännedomen om de svenska odonaterna, 6. (Opuscula entomologica, 1946. Bd. 11, häft. 3-4, p. 109-118, text maps) **Title tr.:** On zoogeography of Swedish Odonata. A contribution to the knowledge of Swedish Odonata, 6.

*Contains* a zoogeographic study of 54 species of Swedish dragonflies, with data on various geographic groups, including six species distributed from Schonen to Finnmark, and another group of southern origin, of which seven species expand to Swedish Lapland; the migration history of Swedish Odonata is discussed. Summary in German.

**Copy seen:** MH-Z.

**20194. ANDER, KJELL, 1902-** . Kritisk granskning av våra Macrolepidoptera dubiae, en historisk-lepidopterologisk utredning. (Opuscula entomologica, 1945. Bd. 10, häft. 3-4, p. 65-97) **Title tr.:** A critical revision of doubtful Macrolepidoptera of Sweden, an historical discussion of Lepidoptera.

*Contains* a critical study of about 20 doubtful species of large butterflies (Macrolepidoptera) described by C. Linné, C. P. Thunberg, Billberg and

many other entomologists, with critical notes and historical data on explorers, collectors, their travels and entomological collections; bibliography (51 items).

**Copy seen:** MH-Z.

**20195. ANDER, KJELL, 1902-** . Några fjärilfynd jämte anknyttande djurgeografiska reflectioner. (Opuscula entomologica, 1936. Bd. 1, häft. 2, p. 58-64) **Title tr.:** Lepidoptera finds with some zoogeographic observations.

*Contains* a list of butterflies and moths, mostly new to the fauna of some Swedish regions, including *Cidaria hastulata* (lactuata Hübner) found in Lycksele Lappmark; with some zoogeographic data.

**Copy seen:** MH-Z.

**20196. ANDER, KJELL, 1902-** . Odonata, Orthoptera. (In: Brinck, P. S. V., & K. G. Wingstrand, *Mountain fauna of Virihaure*, 1949-51. pt. 2, p. 123-26, 135-37)

*Contains* notes on three dragon flies and two orthopterans brought home from the Virihaure area in Lule Lappmark, northern Sweden, with a list of Scandinavian localities and data on habitat and total distribution.

**Copy seen:** MH-Z.

**20197. ANDER, KJELL, 1902-** . Quelques données sur l'exploration de la faune suédoise des insectes. (Entomologisk tidskrift, 1948. Årg. 69, häft. 3, p. 145-51) **Title tr.:** Some data on the exploration of the insect fauna of Sweden.

*Contains* a brief historical review of the study of insect fauna of Sweden, including data on the investigation of the northern regions by C. Linné, J. W. Zetterstedt, C. F. Fallén and many other specialists, with reference to their published works and to some arctic species.

**Copy seen:** MH-Z.

**20198. ANDER, KJELL, 1902-** . Svensk fjärilforskning 200 år. (Opuscula entomologica, 1944. Bd. 9, häft. 3-4, p. 57-78) **Title tr.:** Two hundred years of the study of Swedish Lepidoptera.

*Contains* an historical review of progress, from the publication of C. Linné's *Animalia per Sueciam observata* in 1739, with data on published works and expeditions (including those to Swedish Lapland) of Linné, Zetterstedt, Fallén and other prominent Swedish entomologists, statistical data on the number of lepidoptera described and references to many species, including some native to northern

regions of Sweden; bibliography (29 items).

**Copy seen:** MH-Z.

**20199. ANDER, KJELL, 1902-** . Två anmärkningsvärda gräshoppsfynd. (Entomologisk tidskrift, 1934. Årg. 55. häft. 1, p. 66-67) **Title tr.:** Two noteworthy finds of grasshoppers.

**Contains** data on distribution of two grasshoppers, including *Gomphocerus* (*Dasyhippus*) *variegatus* found in Lake Inari region, northern Finland.

**Copy seen:** MH-Z.

**20200. ANDER, KJELL, 1902-** . Zur Verbreitung und Phänologie der boreo-alpinen Odonaten der Westpaläarktis. (Opuscula entomologica, 1950. Bd. 15, häft. 1, p. 53-71, text maps) **Title tr.:** On distribution and phenology of the Odonata of the boreal-alpine zone of the western Palearctic.

**Contains** a zoogeographic and phenological study of two dragonflies: (1) *Aeschna coerulea* (northern Scandinavia, Kola Peninsula, lower Yenisey region in Siberia), in North America this species is replaced by a vicarious form *A. coerulea septentrionalis* (Labrador); and (2) *Soma-tochlora alpestris* (northern Scandinavia, Kola Peninsula and lower Yenisey region). A list of localities and phenological data are given for various geographic regions, including Lapland. Bibliography (110 items).

**Copy seen:** MH-Z.

**ANDER, KJELL ERNST VIKTOR, see** Ander, Kjell, 1902-

**ANDERSON, FRED M., see** Patterson, R. H., & F. M. Anderson. War casualties prolonged exposure wet & cold. 1945. No. 24994.

**ANDERSON, GEORGE R., see** Johnson, W. M., & others. Correlation climatol. data Bering Sea & Aleutian I. 1944. No. 23008.

**20201. ANDERSON, HENRY W.** Soil freezing and thawing as related to some vegetation, climatic, and soil variables. (Journal of forestry, 1947. v. 45, p. 94-101, tables, diagr.)

**Report** on a study (made at Northfork, Calif. 37° N. lat., elevation 2750 ft.) of freezing under brush-cover, a light grass cover and in bare soil. The brush cover and (less so) the grass cover decreased the duration, depth and number of freezes, delayed the first occurrence and advanced the last date of freeze, as compared with bare soil. Freezing kept the surface

soil wet thus increasing evaporation during dry periods and causing erosion during rainstorms. "... Variables significant to the freezing depth were: (1) product of the duration of freezing temperatures and the difference between minimum temperature and 32° F., (2) minimum air temperature during the freezing period, (3) duration of freezing temperatures, (4) ½ in. minimum soil temperature, (5) soil temperature gradient, (6) soil moisture, and (7) snow cover. Variables affecting thawing rates were: (1) solar radiation, (2) the product of the duration of freezing temperatures and the difference between maximum temperature and 32° F., (3) cloud cover, and (4) 12-in. minimum soil temperature. The freezing of bare soil is related to high surface soil moisture, high evaporation rates, and high surface runoff and erosion." —SIPRE. Bibliography (23 items).

**Copy seen:** DA.

**20202. ANDERSON, JACOB PETER, 1874-1953.** Alaska and Yukon species of *Rubus* subgenus *Cylactis* Focke. (Torrey Botanical Club. Bulletin, May 1947. v. 74, p. 255-56)

**Contains** a key and discussion of the controversy over species in this genus, giving author's opinion that *R. arcticus* does occur in North America and *R. acaulis* is a synonym; and *R. alaskensis* is a good species. Five species occur in regions discussed. **Copy seen:** DA; DLC.

**20203. ANDERSON, JACOB PETER, 1874-1953.** A comparison of the flora of Iowa with that of Alaska and Yukon. (Iowa Academy of Science. Proceedings, 1949. v. 56, p. 101-105)

**Contains** note and tabular data showing 121 families of vascular plants in Iowa, of which 67 are found also in the North; also six families found in the North but not in Iowa. **Copy seen:** DLC.

**20204. ANDERSON, JACOB PETER, 1874-1953.** Flora of Alaska and adjacent parts of Canada; an illustrated and descriptive text of all vascular plants known to occur within the region covered. Part VIII-IX. (Iowa State College journal of science, 1950-52. v. 25, p. 219-71, 5 plates; v. 26, no. 3, p. 387-453, 5 plates)

**Contains** description and morphology of the genera and species of the following families (pt. 8): Gentianaceae; Apocynaceae; Polemoniaceae; Hydrophyllaceae; Boraginaceae; Lamiaceae; Scro-

phulaceae; Lentibulariaceae; Orobanchaceae; Plantaginaceae; Rubiaceae; Caprifoliaceae; Andoxaceae; Valerianaceae; Campanulaceae. Part 9: Chicoriaceae (Chicory family) and Asteraceae (Aster family). Data on geographical distribution are offered. For parts I-VII of this work, see *Arctic Bibliography*, No. 441. **Copy seen:** DA.

**20205. ANDERSON, JACOB PETER, 1874-1953.** Notes on Alaskan rust fungi. (Torrey Botanical Club. Bulletin, May 1940. v. 67, p. 413-16)

*Contains* annotated list of two species new to North America, 22 new to Alaska, 19 occurring on host plants not previously reported as infected in Alaska, and 13 species with extended range.

**Copy seen:** DA; DLC.

**20206. ANDERSON, JACOB PETER, 1874-1953.** Notes on the flora of Sitka, Alaska. (Iowa Academy of Science. Proceedings, 1916. v. 23, p. 427-82, 16 plates)

*Contains* notes on vegetation in general, and on flowering plants of the seashore, grasslands, forest and fresh waters in the vicinity of Sitka; section on economic plants (trees, forage and fruit-bearing) and on the powdery mildews (Erysiphaceae) and the rusts (Uredinales).

**Copy seen:** DLC.

**20207. ANDERSON, JACOB PETER, 1874-1953.** Papers on the flora of Alaska—I. The genus *Cicuta*. (Torreya, Nov.-Dec. 1943. v. 42, p. 176-78)

*Contains* data on occurrence in Alaska of the poisonous plants, *C. maculata* and *C. mackenziana*, and in Southeast Alaska of *C. douglasii*, with note on distinguishing characteristics.

**Copy seen:** DA; DLC.

**20208. ANDERSON, JACOB PETER, 1874-1953.** Plants of southeastern Alaska. (Iowa Academy of Science Proceedings, 1918. v. 25, p. 427-49)

*Contains* annotated list of 23 species of ferns and fernlike plants, seven trees, and about 400 species of flowering plants collected in many localities in the vicinity of Sitka, Juneau, the Taku River, and Lynn Canal.

**Copy seen:** DA; DLC.

**20209. ANDERSON, JACOB PETER, 1874-1953.** Supplemental list of plants from southeastern Alaska. (Iowa Academy of Science. Proceedings, 1919. v. 26, p. 327-31)

Annotated list of four species of ferns and fernlike plants, two trees, and 75 species of flowering plants determined from Haines and Skagway at the head of Lynn Canal. **Copy seen:** DLC.

**20210. ANDERSON, SVEND T., and T. P. BANK II.** Pollen and radiocarbon studies of Aleutian soil profiles. (Science, July 25, 1952. v. 116, no. 3004, p. 84-86, illus., table)

*Contains* a study aimed to contribute toward a chronology of postglacial events in the area, offering correlative data for geology, biology and anthropology. The stratigraphy of non-archeological profiles is given; in the archeological sites, lensing was found to be extremely complicated, indicating a much longer human occupation than anticipated. Pollen analyses of soil samples from several areas are presented and discussed; they indicate changes in the plant communities due probably to climatic variation. By correlating the above studies with those from archeology and radiocarbon dating it is expected to obtain a picture of living conditions existing at the time of the ancient Aleut settlements. The study is based on field work during expeditions of 1948-51, sponsored by the University of Michigan Botanical Gardens and Museum of Anthropology. Bibliography (6 items).

**Copy seen:** DLC.

**20211. ANDERSSON, DAN.** Massförekömet av *Bibio pomonae* F. (Entomologisk tidskrift, 1944. Årg. 65, häft. 3-4, p. 221-22) **Title tr.:** Mass appearance of *Bibio pomonae* F.

*Contains* report of the mass appearance of a small fly, *Bibio pomonae*, near water basins in Sillakjange and Jokkmokk parishes of Swedish Lapland, in Aug. 1944.

**Copy seen:** MH-Z.

**20212. ANDERSSON, GUNNAR, 1865-1928.** Studier öfver Finlands torfmossar och fossila kvartärflora. Helsingfors, 1898. 210 p., illus., 4 plates, tables, map, diags. (Finland. Geologiska kommission. Bulletin, 2:8) **Title tr.:** Studies on the peat bogs and the fossil Quaternary flora of Finland.

*Contains* a review of fossil-containing soils of Finland and the structure of the peat bogs; a description of some deposits containing plants; a review of the Finnish Quaternary flora with a list of plants hitherto found (except diatoms); a brief note on animal remnants in the Quaternary deposits.

**Copy seen:** DLC.

**20213. ANDERSSON, OLOF.** Larger fungi on sandy grass heaths and sand dunes in Scandinavia. (Botaniska notiser, 1950. Supplement v. 2, no. 2, p. 1-89, illus., text maps, plates 1-9)

*Contains* a study of obligate sand-fungi confined to dry habitat devoid of any dominating shrub or tree layer, with descriptions of 21 species, historical and ecological notes and data on Scandinavian and extra-Scandinavian distribution; an ecological summary (tables, diagrams) p. 71-81; a general bibliography (about 200 items). Includes some species native to northern regions.

**Copy seen:** MH-A.

**20214. ANDJUS, RADOSLAV.** Sur la possibilité de ranimer le rat adulte refroidi jusqu'à proximité du point de congélation. (Académie des Sciences, Paris. Comptes rendus, Apr. 1951. t. 232, no. 17, p. 1591-93) **Title tr.:** The possibility of resuscitating an adult rat chilled almost to the point of freezing.

*Contains* a description of a method of revival of rats, cooled to 1° C., which causes suppression of respiration, cessation of heartbeat, etc. It consists in rewarming first the heart and then its surroundings and leads to a durable survival. Bibliographical footnotes.

**Copy seen:** DLC.

**ANDJUS, RADOSLAV,** *see also* Giaja, J., and R. Andjus. Fonctionnement cœur mammifères refroidis. 1950. No. 22097.

**20215. ANDREEV, ALEKSANDR IGNAT'EVICH, 1887-**, *editor.* Russian discoveries in the Pacific and in North America in the eighteenth and nineteenth centuries; a collection of materials. Translated from the Russian by Carl Ginsburg. Ann Arbor, Mich., Published for American Council of Learned Societies by J. W. Edwards [1952]. 214 p. (Russian Translation Project series of the American Council of Learned Societies, 13)

*Contains* translation of *Russkie otkrytiia v Tikhom okeane i Severnoi Amerike v XVIII-XIX vekakh* (*see Arctic Bibliography*, No. 506).

**Copy seen:** DLC.

**20216. ANDREEV, ALEKSANDR IGNAT'EVICH, 1887-**. *Russkie otkrytiia v Tikhom okeane i Severnoi Amerike v XVIII veke.* Moskva, OGIZ Gosudarstvennoe izd-vo geograficheskoi literatury, 1948. 382 p., illus., port., 6 fold. maps. **Title tr.:** Russian discoveries

in the Pacific Ocean and North America in the 18th century.

*Contains* a review of the sources and the literature, followed by texts of forty historical documents, 1733-1792: materials on Russian navigation and exploration during the first half of the 18th century, including the deposition of the Cossack Skurikhin on the voyage of the ship *Gavril* to Bolshaya Zemlya, apparently Alaska (1732); description of Chukchi Land by I. A. I. Lindenau (1742); materials on the second half of the 18th century, including the reports of I. Korovin, I. Solov'ev and others; and materials on the activity of the trading companies of I. I. Golikov and of G. I. Shelekhov on the Aleutian Islands and in America. Bibliographical footnotes.

**Copy seen:** DLC.

**ANDREEV, ALEKSANDR IGNAT'EVICH, 1887-**, *see also* Waxell, S. L. Vitus Berings eventyrlige opdagerfaerd 1733-43. 1948. No. 27280.

**ANDREEV, ALEKSANDR IGNAT'EVICH, 1887-**, *see also* Waxell, S. L. Vtoraiâ Kamchatskaia eksped. Vitusa Beringa. 1940. No. 27281.

**ANDREEV, STEPAN,** *see* Belov, M. I. Sushchestvovala li Zemlia Andreeva? 1952. No. 20564.

**ANDREEV, STEPAN,** *see also* Zubov, N. M., & K. S. Badigin. Razgadka talny Zemli Andreeva. 1952. No. 27624.

**20217. ANDREEV, VLADIMIR NIKOLAEVICH, 1889-**. *Pervyi opyt ogorodnichestva na Chaune (68°47' s. sh.) v 1933 g.* (Sovetskii Sever, 1935. t. 6, vyp. 2, p. 43-47) **Title tr.:** First attempt at kitchen gardening on Chaun Bay (68°47' N. lat.) in 1933.

*Contains* description of the first attempt to grow vegetables in the Chaun Bay region of northern Kamchatka province in the summer of 1933, with notes on weather conditions. **Copy seen:** DLC.

**20218. ANDREW, J. D.** Experimental ascorbic acid deficiency. (British medical journal, 1949. v. 2, p. 1273-74)

*Contains* a report on an experiment made by the author on himself during an expedition to Graham Land in 1945. During the journey, author had normal diet including large quantities of oranges, orange juice and fresh vegetables. At the base, normal unsupplemented diet (which included fresh penguin and seal

meat when available) was followed, but excluded 50 mg. of ascorbic acid which was taken daily by the rest of the personnel. First symptoms of scurvy appeared at the beginning of the third month and are described with those during the subsequent period up to 4 months, when experiment was stopped by intake of ascorbic acid. Bibliography (2 items).

**Copy seen:** DSG.

**20219. ANDRIĀSHEV, ANATOLY P.** K poznaniū ryb morā Laptevykh. (Akademiā nauk SSSR. Zoologicheskii institut. Trudy, 1948. t. 7, vyp 3, p. 76-100, illus.) **Title tr.:** A contribution to the knowledge of the fishes of Laptev Sea.

**Contains** brief historical data on ichthyological exploration of Laptev Sea and descriptions of 16 fishes, including five species new to the fauna of that sea, with dimensions, morphological characteristics, biological and ecological notes and data on geographic distribution in other arctic regions; based on material collected by the author and V. V. Makarov (New Siberian Islands) during the expedition of the ice-breakers *Malygin* and *G. Sedov* in 1937; bibliography (35 items).

**Copy seen:** MH-Z.

**20220. ANDRIĀSHEV, ANATOLY P.** New data on the ecology and distribution of fish in the Laptev Sea. (Akademiā nauk SSSR. Comptes rendus (Doklady), 1939. nouv. ser., v. 23, no. 7, p. 730-32).

**Record** of 31 species and their zoogeographic division into four groups of circumpolar, North Pacific, North Atlantic and deep-water polar origin.

**Copy seen:** DLC.

**20221. ANDRIĀSHEV, ANATOLY P.** O vidovom sostave i rasprostraneniī bychkov roda *Triglops* Reinh. v severnykh morākh. (Vsesoiūznoe gidrobiologicheskoe obschestvo. Trudy, 1949. t. 1, p. 194-209, illus.) **Title tr.:** On species content and distribution of the genus *Triglops* Reinh. in the northern seas.

**Contains** a critical revision of the species of the genus *Triglops*, fishes native to northern seas, with a table for the determination of the species, descriptions of *T. pingelii*, *T. murrayi* and *T. nybelini* (fam. Cottidae) widely distributed in all northern sections of the Atlantic and Pacific Oceans (*T. pingelii* is a circumpolar species); data on their taxonomy, biology and ecology; bibliography (30 items).

**Copy seen:** MH-Z.

**20222. ANDRIĀSHEV, ANATOLY P.** Obzor roda *Kruzenshterniella* iz sem. bel'dūgovykh. *Kruzenshterniella* Schmidt (Pisces, Zoarcidae), s opisaniem novogo vida iz Āponskogo morā. (Akademiā nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1938. no. 32 (5), p. 117-21). **Title tr.:** A revision of the genus *Kruzenshterniella* of the eelpout family. *Kruzenshterniella* Schmidt (Pisces, Zoarcidae), with a description of a new species from the Japanese Sea.

**Contains** a critical revision of the genus *Kruzenshterniella* (Pisces, Zoarcidae) with a key to the species and description of three species, including *K. multispinosa*, type species from the Okhotsk Sea.

**Copy seen:** MH-A.

**20223. ANDRIĀSHEV, ANATOLY P.** On a new fish of family Lycodapodidae from the northeast coast of Kamchatka. (Akademiā nauk SSSR. Comptes rendus (Doklady), 1935. nouv. ser., v. 3 (8), no. 9 (69), p. 422-24, illus.).

**Copy seen:** DLC.

**ANDRIĀSHEV, ANATOLY P., see also** Lindberg, G. U., & A. P. Andriāshev. Obzor roda *Sarritor*. 1950. No. 23857.

**ANDRIĀSHEV, ANATOLY P., see also** Taranets, A. Ā., & A. P. Andriāshev. O novoi rybe sem. Zoarcidae. 1935. No. 26627.

**ANDRIĀSHEV, ANATOLY P., see also** Taranets, A. Ā., & A. P. Andriāshev. O novom rode i vide *Petroschmidia albonotata*. 1934. No. 26628.

**20224. ANGERVO, J. M.** Lumen omīnaisuuksista; havaintoja talvelta 1949-50. (Teknillinen aikakauslehti, 1950. v. 40, no. 21, p. 397-400.) **Title tr.:** The nature of snow; observations from the winter of 1949-50.

**"Measurements** were made of the thickness, hardness and density of snow cover during the winter of 1949-50 in Finland. Drift formations were observed throughout Finland. Depth measurements were made with a wooden pole calibrated in cm. Special scales were used to determine density and hardness of snow cover. Snow was classified into small, medium and big grains, each being either light, soft, hard or very hard. Maximum snow depth in southern and middle Finland ranged from 2-34 cm. and from 25-53 cm. in northern Finland. Minimum values in southern and middle

Finland were 1-7 cm. and in northern Finland 2-15 cm. Maximum density in southern and middle Finland ranged from 0.29-0.60 and in northern Finland from 0.23-0.63. Minimum density in southern and middle Finland ranged from 0.10-0.28 and in northern Finland from 0.05-0.23. The hardness of snow cover ranged from 11-656 gr./cm.<sup>2</sup> depending on location and on type of snow. Snow has a higher hardness value in southern and middle Finland than in northern Finland."—SIPRE.

Similar observations were made (1) during 1948-49 and reported in this journal v. 39, p. 369-72, 1949, where description of method and instrumentation is given; (2) during 1950-51 and reported in this journal v. 41, p. 406-409, 1951.

**Copy seen:** DLC.

**20225. ANGERVO, J. M.** Über die Bewegung der Luft in einem Hochdruckgebiet. Helsinki, 1947. 20 p., diags., map. (Finland. Meteorologinen keskuslaitos. Toimituksia (Meteorologische Zentralanstalt. Mitteilungen) no. 29). **Title tr.:** Air motion in an anticyclone.

"Hasselberg's solution of the trajectory of a particle of air in a moving system is extended to the case of a moving anticyclone and the unique theoretical equation applied to a case (January 2, 1947) when a vast anticyclone moved across the Baltic (central pressure 1049 mb.) to northwest Russia. The equation is applicable to either the cyclonic or anticyclonic circulation fields."—*Meteorological abstracts and bibliography*, Oct. 1950. v. 1, no. 10, p. 637.

**Copy seen:** DLC.

**ANGERVO, J. M.,** see also Finland. Meteorologinen Keskuslaitos. Sade- ja lumihavaintoja Suomesta vuonna 1939. 1950. No. 21798.

**20226. ANGOT, ALFRED, 1848-1924.** The aurora borealis. London, K. Paul, Trench, Trübner & Co., Ltd., 1896. xii, 264 p., front., illus., 12 plates. (International Scientific Series, v. 81) illustration assigned to p. 71 on p. 133.

**Contains** chapters on history; forms, physical properties, frequency, position, etc., of auroras; relation to meteorological, magnetic and telluric forces; theories of the aurora.

**Copy seen:** DLC.

**20227. ANISIMOV, A. F.** Predstavleniia évenkov o dushe i problema proiskhozhdeniia animizma. (Akademii

nauk SSSR. Institut étnografii im. N. N. Miklukho-Maklaia. Trudy, Novaiia seriia, 1951. t. 14, p. 109-118, illus.) **Title tr.:** The Évenki concept of the soul and the origin of animism.

**Contains** discussion of the Tungus (Évenki) conception of the soul as twofold: every man having an "external" and a "bodily" soul, soul and shadow being synonymous. The Tungus believe that the soul can leave the body and wander far; native sketch (p. 113) shows a shaman leading a dead kinsman's soul to the world of the dead. The "external" soul can transform itself into a bird or animal. Phantasies of the "bodily" soul contain trends even older than animism.

**Copy seen:** DLC.

**20228. ANISIMOV, A. F.** Predstavleniia évenkov o shingken'akh i problema proiskhozhdeniia pervobytnoi religii. (Akademii nauk SSSR. Muzei antropologii i étnografii. Sbornik, 1949. t. 12, p. 160-94, fold. plate) **Title tr.:** The imagination of the Tungus about the shingken and the problem of the origin of primitive religions.

**Contains** a study of the Tungus' conception of shingken which can mean: (1) protective spirit of animals and hunting places, (2) hunting luck, or (3) the object bringing the hunting luck (fetish), according to the author's experience while living (from 1929 to 1931 and 1937) among the Tungus of the Balkitsk and Chumsk regions on the Podkamennaya Tunguska River. The comparative part of the study is based on literature, with many references to similar beliefs among the Yakuts, Dolgans, and Kamchadals.

**Copy seen:** DLC.

**20229. ANISIMOV, A. F.** Rodovoe obshchestvo évenkov (Tunguzov). Leningrad, 1936. 194 p. illus., fold. map. (Leningrad. Institut narodov Severa im. P. G. Smidovicha. Nauchno-isledovatel'skaiia assotsiatsiia. Trudy po étnografii, t. 1.) **Title tr.:** The tribal society of Évenki (Tungus).

**Contains** five essays (p. 5-160) on (1) the so-called group marriage, and problem of rise of the Tungus family; (2) survivals of matriarchal family; (3) the patriarchal family; (4) phratries and tribes; and (5) the disintegration of family among the Tungus. These studies are presented from the viewpoint of their offering evidence of the Marx-Engels theory of primitive communism.

**Appendixes** (p. 162-90) give ten narra-

tives in Tungus and Russian with a vocabulary of Tungus words introduced in the paper; bibliography (119 items).

**Copy seen:** DLC.

**20230. ANISIMOV, A. F.** Shamanskii dukhi po vozzreniiam évenkov i totémicheskie istoki ideologii shamanstva. (Akademiia nauk SSSR. Muzei antropologii i étnografii. Sbornik, 1951. t. 13, p. 187-215, 7 illus.) **Title tr.:** Shamanistic spirits from the Tungus' viewpoint and the totemistic source of shamanistic ideology.

**Contains** theoretical speculations based on literature and on some observations made by author himself during his stay among Tungus of the Podkamennaya Tunguska basin in 1929-31 and 1937. The helpful spirits are often imagined in the shape of some animal, therefore, the author came to the conclusion that totemism must be the original source of the shamanistic ideology. Bear, elk and wild reindeer are the most common objects of cult and myth among the Siberian primitives, and thus, he claims "the mother of animals" easily can become a shaman. **Copy seen:** DLC.

**20231. ANISIMOV, A. F.** Shamanskii chum u évenkov i problema proiskhozhdeniia shamanskogo obráda. Akademiia nauk SSSR. Institut étnografii. Trudy, 1952. Novaiia seriia, t. 18, *Sibirskii étnograficheskii sbornik*, p. 199-238, 11 illus.) **Title tr.:** The shaman's tent among the Évenki (Tungus) and problem of the origin of shamanistic ceremonies.

**Contains** criticism of the theories of N. I. A. Marr and tribute to Stalin as a great ethnologist, in discussion of the reactionary role of shamans as opponents of bolshevism and collectivization, etc. Shamanistic tents are described and figured, also the implements used to attain the support of helpful spirits, etc. The different phases of the process of shamanistic healing of a sick person are represented in an elaborate drawing (on p. 221) made by a shaman.

**Copy seen:** DLC.

**20232. ANNENKOVA, NADEZHDA PAVLOVNA.** Beiträge zur Kenntnis der Polychaeten-Fauna der U.S.S.R., I. Fam. Pectinariidae Quatrefages (Amphitetidae Malmgren) und Ampharetidae Malmgren. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1929. t. 30, vyp. 3, p. 477-502, plate 37-39) **Title tr.:** Contributions to the knowledge of

the polychaete fauna of the U.S.S.R., I. Fam. Pectinariidae Quatrefages (Amphitetidae Malmgren) and Ampharetidae Malmgren.

**Contains** a study of the families Pectinariidae and Ampharetidae of polychaetous marine worms of Russia with a systematic list of 25 species, including descriptions of six new species, critical notes and data on distribution in the waters along the northern coast of European and Asiatic Russia, in Bering and Okhotsk Sea, with lists of localities.

**Copy seen:** DLC; MH-Z.

**20233. ANNENKOVA, NADEZHDA PAVLOVNA.** Gel'mintologicheskie zamietki, I-III. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1923. t. 24, p. 32-43, illus.) **Title tr.:** Helminthological notes, 1-3.

**Contains** descriptive notes on three species of tapeworms, including *Ichthyotaenia longicollis*, found in the intestine of *Coregonus lavaretus*, a whitefish caught in the White Sea.

**Copy seen:** MH-Z.

**20234. ANNENKOVA, NADEZHDA PAVLOVNA.** Eine neue Brackwasser-Polychaete, *Oridia rivularis* n. sp., von den Schantar-Inseln (Ochotskisches Meer). (Akademiia nauk SSSR. Doklady, 1929. Seriia A, no. 5, p. 119-22, illus.) **Title tr.:** A new brackish-water polychaete, *Oridia rivularis* n. sp. from the Shantar Islands (Okhotsk Sea).

**Copy seen:** DLC.

**ANNENKOVA-KHLOPINA NADEZHDA PAVLOVNA,** see Annenkova, Nadezhda Pavlovna.

**20235. ANNING, S. T.** Calciferol in the treatment of chilblains. (Lancet, Nov. 29, 1947. v. 253, p. 794).

**Contains** report on a study made on 103 patients with 159 controls. No statistically significant difference between the test and control group was observed, either in preventing or in curing chilblains. Since calciferol in high doses is not without danger, author suggests that its use for this purpose be discontinued.

**Copy seen:** DLC.

**20236. ANSTEINSSON, JOHN, 1893-** Det kongelige Norske videnskabers selskab forhandling og skrifter 1926-1936. Acta et scripta regiae Societatis scientiarum norvegicae 1926-1936. Tabula aetorum et index rerum. (Norske videnskabers selskab, Trondhjem. Skrifter,

1936, pub. 1937. Suppl. p. 1-52.) *Title tr.*: The *Forhandlinger and Skrifter* of the Royal Norwegian Scientific Society 1926-1936. List of the authors and subject index.

Contains a bibliography of works published in *Forhandlinger and Skrifter* series of the Royal Norwegian Scientific Society of Trondhjem for ten years (1926-36) arranged alphabetically with a subject index (p. 33-51) based on the decimal system of classification. Includes many papers with arctic material. *Copy seen*: MH.

**20237. ANTEVS, ERNST, 1888-** . Correlation of Wisconsin glacial maxima. (American journal of science, 1945, v. 243A, p. 1-39.) "A study of fluctuations of North American ice-sheets due to interaction with tracks of depressions. Glaciation started on mountains of west Canada and spread over plains to east, fed by depressions crossing Rocky Mountains (depressed 2,000-3,000 feet) between 54° N. and St. Elias Range. This and Scandinavian ice displaced Icelandic low southwards and NE winds caused glaciation of Labrador. Southward shifting tracks and permanent Aleutian low caused glaciation and pluvial period in western U.S.A., but starved northern ice-sheets causing regression followed by regeneration." — *Meteorological abstracts and bibliography*, July 1950, v. 1, no. 7, p. 463. *Copy seen*: DLC.

**20238. ANTIPIN, V. M.** K voprosu o migratsii lastonogikh po sushe. (Priroda, 1949; no. 9, p. 77-78.) *Title tr.*: On migration of marine mammals on dry land.

Contains literature data and observations of the author on the ability of some marine mammals (seals, walruses, sea-lions, etc.) to migrate on the dry land; all data refer to Novaya Zemlya, Kolguyev Island and Kamchatka.

*Copy seen*: MH.

**20239. ANTONOV, V. S.** O roli rek v rezhime Arkticheskikh morei. (In: Vsesoŭŭznyiĭ geografičeskiiĭ s"ezd. 2d, Leningrad, 1947. Trudy, t. 2, pub. 1948, p. 307-314, incl. tables, maps)

"The drainage of the Asiatic continent into arctic seas amounts to approximately 2,509 cu. km. The fresh-water flow is highest into the Kara Sea area and least into the Chukchi Sea. About 80 per cent of the fresh water flows into the Arctic Ocean during the spring and sum-

mer months, reaching a maximum in July. The action of the fresh water on the régime of arctic seas is four-fold: it accelerates ice melting during spring and summer; it facilitates the removal of ice from areas adjacent to river outlets; it leads to the accumulation of heat and subsequent delay in fall and winter freezing; and it accelerates the freezing later due to decreased salinity in surface waters."—SIPRE. *Copy seen*: DLC.

**20240. ANTROPOVA, V. V.** K istorii arkhéologicheskogo izučeniia Kamchatki. (Akademiia nauk SSSR. Muzei antropologii i étnografii. Sbornik, 1949. t. 11, p. 380-94, illus., map) *Title tr.*: To the history of the archeological exploration of Kamchatka.

Contains description of archeological objects (stone axes, arrowheads, etc.) from Kamchatka, preserved in the State Museum for Ethnography in Leningrad and the Ethnographical Museum of the Academy of Sciences U.S.S.R. Notes are added on the archeological excavations made by V. I. Jochelson in 1910-11 (while on the Riâbushinskii expedition), by Sten Bergman's Swedish botanical expedition in 1920-22, and by the Japanese scholars Yamada Sigekura and Nakayama in 1923-28 and 1932-33 respectively. *Copy seen*: DLC.

**20241. ANTROPOVA, V. V.** Rasselenie itel'menov v pervoi polovine XVIII v. (Vsesoŭŭznoe geografičeskoe obščhestvo. Izvestiia, 1949. t. 81, no. 4, p. 414-19, map, tables) *Title tr.*: Settlements of the Kamchadals in the first half of the 18th century.

Contains introductory sketch and tables based on the work of Krashenninnikov (see *Arctic Bibliography* No. 9265 and No. 9267), a participant in Bering's Great Northern Expedition. The tables give the location and official names of the settlements and their Russian, native and other equivalents. *Copy seen*: DLC;

**20242. ANTROPOVA, V. V.** Starinnye kamchadal'skie sani. (Akademiia nauk SSSR. Muzei antropologii i étnografii. Sbornik, 1949. t. 10, p. 47-92, 22 illus., fold. plate) *Title tr.*: The old Kamchadal sledge.

Contains an ethnographical study on the traditional dog sledge: its construction and use, technique of harnessing, measurements, ornamentation, etc. This type of sledge is no longer in use among the

Kamchadals. The paper is based on museum specimens and the literature.

**Copy seen:** DLC.

**20243. ANUCHIN, DMITRIĬ NIKOLAEVICH, 1843-1923.** Giliaki. (*In: Ėnsiklopedicheskii slovar'*, 1890-1904. v. 8a, p. 686-88) **Title tr.:** The Gilyaks.

Brief article on this isolated group (about 7000) scattered along lower Amur basin and estuary, in the Okhotsk coastal region and northern Sakhalin Island; their origin and racial affiliation with Tungus and Ainu; etymology of their name; racial types; peculiar language characteristics; fishing, trapping, hunting and sealing; produce of grain and potatoes, nuts and berries; their plank dwellings and storehouses; communal way of life; clothing and ornamentation; weapons and implements; boats, skis, sledges and transport dogs; their domestic life, and welfare; attitude to children; marriage and divorce; laws and social organizations; religious beliefs, ceremonials and festivals; their relatively undeveloped culture; shamanism, primitive music, folklore, etc.

**Copy seen:** DLC.

**20244. ANUCHIN, DMITRIĬ NIKOLAEVICH, 1843-1923.** Samoyedy. (*In: Ėnsiklopedicheskii slovar'*, 1890-1904. v. 28a, p. 244) **Title tr.:** The Samoyeds.

Contains brief account of this Ural-Altaic people (about 2000) distinct from the Finns racially and linguistically, and living in Arkhangel'sk Province and Siberia in the lower Ob' and Yenisey River basins and the Khatanga estuary; etymology of their name "Saami"; their origin and relationship to Tatars and other tribes; their wars and migrations; racial types and dialects; their nomadic way of life, fishing, sealing, hunting and reindeer-breeding; their huts, clothing and food; their psychological characteristics, religion and shamanism; their low economic standard. **Copy seen:** DLC.

**20245. ANUCHIN, V. I.** Ocherk shamanstva u eniseiskikh ost'akov; s risunkami v tekste, ispolnennymi khudozhnikom S. M. Dudinyam. 90 p., 115 illus. (Akademiia nauk SSSR. Muzei antropologii i etnografii. Sbornik, 1914. t. 2, vyp. 2) **Title tr.:** Essay on shamanism among the Yenisey-Ostyaks, with drawings in the text by the artist S. M. Dudin.

Contains a monographic study on the Yeniseian beliefs (gods and spirits, origin of man, soul and life, death, life after

death, the universe, heavenly bodies, animals and plants); and on the shaman and shamanistic ritual, with description of shamanistic garments, ornaments and utensils, his drum, crown, weather-cock flag, etc., with text illus. The author was sent by the Russian committee for investigation of Central and Eastern Asia to the Turukhansk region and worked there in 1905-1908. He explored the Yeniseian ethnology, anthropology and language, and made collections for the Museum of Anthropology and Ethnography. He met all the Yeniseian shamans (three of high rank, having all the shamanistic paraphernalia, and eleven of lower rank), attended 22 performances, therefore, was able to present first-hand material.

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**20246. APPALACHIA.** An expedition to Baffin Island. (Appalachia, June 1950. v. 28, p. 98)

Brief note announcing the Baffin Island Expedition of the Arctic Institute of North America in the summer of 1950, under the leadership of P. D. Baird.

**Copy seen:** DGS.

**20247. APPALACHIA.** French expedition to Greenland. (Appalachia, Dec. 1948, June 1949, June 1950. v. 27, p. 232-33, 359; v. 28, p. 98-99). News notes on the Paul-Émile Victor expeditions of 1948 and 1949.

**Copy seen:** DGS.

**20248. APPELLÖF, JACOB JOHAN ADOLF, 1857-1921.** Teuthologische Beiträge, III-IV. (Bergen, Norway. Museum. Aarbok, 1892, pub. 1893, no. 1, p. 1-13, plate) **Title tr.:** Reports on cephalopods.

Contains (in pt. III) critical notes on eight species of cephalopods collected during Norwegian North Atlantic Expedition, 1876-78, including seven native to northern Norway, Jan Mayen and Svalbard waters; parts I, II and IV of this work do not contain Arctic material.

**Copy seen:** MH-Z.

**20249. APPLETON, LE ROY H.** Indian art of the Americas. New York, Scribners, 1950. 279 p., incl. col. plates.

Contains in section 3, "The forest and the sea," a brief characterization of the culture of Indians and Eskimos of north-west Canada (including Quebec) and Alaska, a few traditional tales of (among others) Tlingits and Eskimos, and (on plates 21-31) designs in color reproduced

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(not photographically) from utensils and clothing of these and other tribes native in that region. *Copy seen:* DLC.

**20250. APPLETON, V. B.** Observations on deficiency diseases in Labrador. (American journal of public health, July 1921. v. 11, p. 617-21).

*Contains* notes (based on a survey in 1919-20) on the diet of Eskimos living along the Labrador coast of the Strait of Belle Isle, occurrence of deficiency diseases among these people, and their susceptibility to infection.

*Copy seen:* DLC.

**20251. APPLEWHITE, K. H., and C. N. SMITH.** Field tests with mosquito and sand fly repellents in Alaska. (Journal of economic entomology, June 1950. v. 43, p. 353-57).

*Contains* results of tests made in 1948 in several Alaskan localities, with "ten repellents used as 25 percent solutions on the skin . . . with thirty-five materials applied to fabrics," ten of which were found effective against mosquitoes after four rinsings and sixteen hours of wear. The work was conducted under funds allotted by the National Military Establishment to the Bureau of Entomology and Plant Quarantine.

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**20252. APPLEWHITE, K. H., and H. F. CROSS.** Further studies of repellents in Alaska. (Journal of economic entomology, Feb. 1951. v. 44, p. 19-22).

*Contains* results on effectiveness of several repellents against mosquitoes and sand flies, applied to the skin and to fabric of uniforms in 1949. Against mosquitoes, a mixture containing dimethyl carbate was most effective for skin; against sand flies, dimethyl phthalate.

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**APPLEWHITE, K. H.,** *see also* Gjullin, C. M., & others. Tests with DDT control black fly larvae. 1950. No. 22128.

**APPLEWHITE, K. H.,** *see also* Travis, B. V., & others. Control of mosquito larvae in Alaska with DDT. 1950. No. 26793.

**20253. ARCHITECTURAL RECORD.** T.B. hospital for Alaska designed for conversion. (Architectural record, July 1950. v. 108, no. 1, p. 160, 162).

*Contains* technical details of a new structure at Anchorage designed for the

Alaska Native Service, U. S. Bureau of Indian Affairs. *Copy seen:* DLC.

**20254. ARCTIC.** The Alaskan Science Conference. (Arctic, May 1951. v. 4, p. 57-61).

*Contains* the general recommendations, those pertaining to international cooperation, specific recommendations, and final resolutions, resulting from a conference sponsored by the National Academy of Sciences and National Research Council, held in Washington, D. C., Nov. 9-11, 1950. *Copy seen:* CaMAI; DLC.

**20255. ARCTIC.** Discovery of Russian hydrographic bottles and barges off West Greenland. (Arctic, July 1952. v. 5, no. 2, p. 129-30).

*Contains* information supplied by Dr. Trevor Lloyd regarding: two Russian hydrographic bottles found off West Greenland in 1951, and presumably released in 1946; also two wooden barges with Russian names found in Davis Strait; these were presumably Siberian river barges, frozen and carried by the outgoing ice into the sea. Driftwood of Siberian origin is quite common on the Greenland coast according to the informant.

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**20256. ARCTIC.** Geographical names in the Canadian North. (Arctic, July 1952. v. 5, no. 2, p. 132).

*Contains* a list of 25 names and name changes adopted by the Canadian Board of Geographical Names for official use, and referring to 8 mi. to 1 in. map sheets: Amundsen Gulf, 97° N. W. and 97° N. E.; Melville North, 47° S. W. and 47° N. E. Approximate geographical position of the places listed, are given. *See also* No. 21091-21092.

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**20257. ARCTIC.** Hydrographic expedition to the Beaufort Sea. (Arctic, Sept. 1951. v. 4, no. 2, p. 138).

*Contains* news note on the voyage of Canadian Defence Research Board's vessel C. G. M. V. *Canolm II* to the Canadian Western Arctic in summer 1951. Personnel of the expedition led by T. H. Manning, its program (oceanographic, fisheries, zoological and geodetic work), data on the vessel, etc., are given.

*Copy seen:* CaMAI; DLC.

**20258. ARCTIC.** Hydrographic work carried out by the *Canolm* expedition. (Arctic, Mar. 1952, v. 5, no. 1, p. 58).

*Contains* a note on the work of a nine-

man party led by T. H. Manning on the *Cancolim* 11 July–Sept. 1951; this included hydrographic and oceanographic investigations in the coastal waters of Beaufort Sea; collection of marine specimens, birds and mammals; establishment of astronomical control points, etc.

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**20259. ARCTIC.** Lincoln Ellsworth, 1880–1951 [with] an appreciation by Sir Hubert Wilkins. (Arctic, Sept. 1951. v. 4, no. 2, p. 142–43).

*Contains* outline of Ellsworth's life and expeditions (including north polar flights), with a tribute to his character and achievements, by an associate in his Antarctic exploration.

*Copy seen:* CaMAI; DLC.

**20260. ARCTIC.** 1951 projects of the Arctic Research Laboratory, Point Barrow. (Arctic, Mar. 1952. v. 5, no. 1, p. 60–61).

*Contains* note on 18 projects with the names of participants of each project, the institution they represent and the problems studied. The latter include zoology, botany, ecology, plant geography, vitamin research, geology, permafrost, etc.

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**20261. ARCTIC.** The Stefansson Library. (Arctic, Mar. 1952. v. 5, no. 1, p. 61).

Note on establishment at Dartmouth College, Hanover, N. H., of the Vilhjalmur Stefansson collection of polar and permafrost materials formerly in New York.

*Copy seen:* CaMAI; DLC.

**20262. ARCTIC.** Trichinosis from polar bear meat. (Arctic, 1948. v. 1, p. 144)

*Contains* an account of an outbreak that occurred in 1944 in a group of Germans who had established a weather station in Franz Josef Land. The attacks followed the eating of polar bear meat infected with trichinae. This led to the examination at the Norwegian Veterinary Institute of specimens of seven polar bears obtained at Svalbard. All of them contained trichinae. *Copy seen:* DLC.

**20263. ARCTIC CIRCULAR.** Arctic dog disease, and Reports of arctic dog disease. (Arctic circular, Mar. 1951. v. 4., p. 47–49).

*Contains* directions for shipping specimens and precautions recommended in dealing with rabies or the distemper-type sickness occurring in northern dogs; with

reports on outbreaks of disease in Hebron and Nain, Labrador, 1949–50.

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**20264. ARCTIC CIRCULAR.** Arctic mail. (Arctic circular, Feb. 1951. v. 4, p. 33–35).

*Contains* practical, detailed information on distribution points, and postage rates for all classes of mail to the Canadian Arctic.

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**20265. ARCTIC CIRCULAR.** The beluga fishery at Churchill. (Arctic circular, Oct. 1952. v. 5, no. 5, p. 53–56)

*Contains* account (based on notes of Dr. K. H. Doan, Central Fisheries Research Station) of the white whale (*Delphinapterus leucas*), numerous though transient at the influx of the Churchill River into Hudson Bay. Its use for oil, food and dog food; attempts at commercial fishery 1929–30, and since 1949–; methods of taking and processing; tabulation of catch and products 1949–51; efforts to control hunting and protect the beluga.

*Copy seen:* CaMAI; DLC.

**20266. ARCTIC CIRCULAR.** The coming of representative government to the Northwest Territories. (Arctic circular, Dec. 1951. v. 4., no. 6, p. 78–83)

*Contains* review of administration of the territorial government from 1905 to the amendment of Northwest Territories Act June 15, 1951; expansion of the council and provision for three elected members; economic development resultant from oil and mineral discoveries and the fishing industry; Yellowknife and its local government.

*Copy seen:* CaMAI; DLC.

**20267. ARCTIC CIRCULAR.** Conference on Eskimo affairs. (Arctic circular, Apr.–May 1952, v. 5, no. 4, p. 41–43; reprinted in Arctic, Oct. 1952, v. 5, no. 3, p. 193–95)

*Contains* a brief report on a conference of government, church and Hudson's Bay Co. representatives held in Ottawa May 19–20, 1951, Major-General H. A. Young, Commissioner of the Northwest Territories, presiding. The economic plight of the Eskimos, fur trade and other employment conditions, effects of government social assistance, health (especially the spread of tuberculosis), education, and crime were discussed and suggestions made. A continuing committee, under H. A. Young, was appointed to study the problems. *Copy seen:* CaMAI; DLC.

**20268. ARCTIC CIRCULAR.** Exercise "Eager Beaver." (Arctic circular, Feb. 1952. v. 5, no. 2, p. 22)

*Contains* news note on a combined exercise of U. S. and Canadian Army Engineers, based near Kluane Lake, Yukon Territory, Jan.-July 1952; with object: to test equipment and personnel while carrying out airfield construction program, snow compaction studies, field defenses, etc.

*Copy seen:* CaMAI; DLC.

**20269. ARCTIC CIRCULAR.** Exercise Firestep. (Arctic circular, Apr.-May, 1951. v. 4, no. 4, p. 63)

Note on this U. S. Armed Forces maneuver in Apr. 1951 "to test the mobility of airborne troops to move to the defense of Alaska."

*Copy seen:* CaMAI; DLC.

**20270. ARCTIC CIRCULAR.** Exercise Sweetbriar and Exercise Sun Dog I. (Arctic circular, Sept. 1950. v. 3, p. 32-35).

*Contains* brief notes on (1) Exercise Sun Dog I, carried out by a Canadian infantry company in the Fort Churchill area; and (2) a larger exercise of combined Canadian and United States forces on the Yukon-Alaskan boundary, both held in Feb. 1950, to test clothing, food, aircraft, vehicles, weapons, also other equipment and material. A more detailed account of the second exercise was given by O. M. Solandt, Mar. 30, 1950, to the Empire Club, Toronto, and published as "Exercise Sweetbriar" in the club's *Addresses, 1949-50*, p. 276-93 (copy in CaTU)

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**20271. ARCTIC CIRCULAR.** Exercises Sun Dog II and Sun Dog III. (Arctic circular, Mar. 1952. v. 3, no. 3, p. 34).

*Contains* brief note on continuation (II) of Exercise Sun Dog I (see item above), with the object of testing the effect of arctic conditions on men and equipment, and of training service staff to meet problems of airborne winter operations. Personnel from two Canadian regiments carried out this exercise in the barrens north of Churchill in Feb.-Mar. 1951. A further exercise (III) was carried out in the Labrador-Ungava area in Feb. 1952 by Canadian Army and Air Force units.

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**20272. ARCTIC CIRCULAR.** Films of the Eastern Arctic to be produced by the National Film Board. (Arctic circular Nov. 1950. v. 3, p. 56-57).

Plans for a Canadian party of three to spend the period July 1950-Sept. 1951 at Chesterfield and Navy Board Inlets making outlined sequences on 16 mm. Kodachrome film on six subjects: The Eskimo, Eskimo child, Natural economy of the Arctic, Arctic weather station, Birds in the Arctic, and Arctic settlement.

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**20273. ARCTIC CIRCULAR.** Geodetic Survey work during the summer of 1949. (Arctic circular, Feb.-Mar. 1950. v. 3, p. 18-20)

Review of localities, work groups, number of astronomical control points established, and miles covered by Canadian parties in the North, including a Geographical Bureau assignment in the Foxe Basin region.

*Copy seen:* CaMAI; DLC.

**20274. ARCTIC CIRCULAR.** The ice wagon. (Arctic circular, Feb.-Mar. 1950. v. 3, p. 22-23)

Notice of "a new R.C.A.F. North Star aircraft, specially modified for experimental studies of aircraft icing and prevention . . . known as the *Rockcliffe Ice Wagon*", and brief résumé of program, personnel and modifications of the plane. See also *Polar record*, Jan. 1952, v. 6, no. 43, p. 394.

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**20275. ARCTIC CIRCULAR.** Maps of the Northwest Territories. (Arctic circular, Apr.-May 1952. v. 5, no. 4, p. 44)

*Contains* a note on the maps (GB 52-04 & 05) "Settlements and trading posts" and "Transportation and communications" (scale about 1 in.:150 mi.) covering all northern Canada excepting Labrador. The maps were drawn and compiled by the Geographical Branch of the Dept. of Mines and Technical Surveys for the Northern Administration and Lands Branch of the Dept. of Resources and Development. The maps were also distributed with this number of *Arctic circular*.

*Copy seen:* CaMAI; DLC.

**20276. ARCTIC CIRCULAR.** Microfilm records of M'Clintock expeditions. (Arctic circular, Apr.-May 1951. v. 4, no. 4, p. 62)

*Contains* note that microfilms of the following ms. journals have been received at the Canadian Dept. of Resources and Development, Northern Administration and Lands Branch, Ot-

tawa: (1) Arctic Journal kept by Dr. Scott, R. N. while serving in H. M. S. *Intrepid* under Cdr. F. L. M'Clintock, R. N., 1852-4. (2) Journal kept on sledge journey by Lieut. F. L. M'Clintock, H. M. S. *Assistance*, 1850-1; (3) Arctic journals of Admiral Sir F. L. M'Clintock in (i) H. M. S. *Enterprise* 1848-9, (ii) H. M. S. *Assistance* 1850-1, (iii) H. M. S. *Intrepid* 1852-4, (iv) Yacht *Fox* 1857-9, with reports by Lieut. Hobson of journey in 1859 and findings of the Franklin Record, and by Capt. Allen Young of journey in 1859 to Prince of Wales Land.

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**20277. ARCTIC CIRCULAR.** Pribilof fur sealing operations, 1950. (Arctic circular, Nov. 1950. v. 3, p. 58-59)

Notice of two fires, one on the tender *Penguin* before sailing north and another which destroyed curing and barrelling buildings on St. George Island; remarks on the *Lt. Raymond Zussman*, replacement vessel which will become the permanent supply tender for the U. S. Fish and Wildlife Service to the Pribilof Islands; and on the sealskin take for 1950 which fell below average.

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**20278. ARCTIC CIRCULAR.** Protection of wildlife in northeast Greenland. (Arctic circular, Feb. 1951. v. 4, p. 32)

Notice from the London *Times* on a new game act effective on June 1, 1951, protecting all species of geese, Sabine gull, musk oxen, fox, polar bear, and walrus in the area between and north of Scoresby Sound, 70°28' N. 21°58' W. and Petermanns Glacier, 80°37' N. 60°50' W., i. e. most of northern and eastern Greenland.

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**20279. ARCTIC CIRCULAR.** Reindeer breeding experiment in Scotland. (Arctic circular, Apr.-May 1952. v. 5, no. 4, p. 45)

*Contains* a note on a limited breeding experiment proposed by the Reindeer Council of the United Kingdom, q. v.

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**20280. ARCTIC CIRCULAR.** Reorganization of Hudson's Bay Company posts. (Arctic circular, Nov. 1951. v. 4, no. 5, p. 74-77)

Note of (1) formation of a new Central Arctic Section comprising seven posts (not new); also (2) personnel of posts of the Ungava, Central Arctic and Western Arctic posts (29 in all), and other administrative changes.

**Copy seen:** CaMAI; DLC.

**20281. ARCTIC CIRCULAR.** Royal Naval survival experiments. (Arctic circular, Jan. 1950. v. 3, p. 11)

Note on H. M. S. *Truelove* cruise to arctic waters for tests of equipment and rations in Jan. 1950. Daily food allotment is listed.

**Copy seen:** CaMAI; DLC.

**20282. ARCTIC CIRCULAR.** The second Bishop of the Arctic. (Arctic circular, Sept. 1950. v. 3, p. 35)

Notice of consecration of Donald B. Marsh as the Church of England in Canada's Bishop of the Arctic, June 1950.

**Copy seen:** CaMAI; DLC.

**20283. ARCTIC CIRCULAR.** Spring air-lift supply of far northern weather stations. (Arctic circular, Apr.-May 1952. v. 5, no. 4, p. 45)

*Contains* note on resupply operations (food, equipment and mail) by U. S. and Canadian aircraft to the joint weather stations at Mould Bay, Isachsen, Alert and Eureka, in the Canadian Arctic.

**Copy seen:** CaMAI; DLC.

**20284. ARCTIC CIRCULAR.** Starvation near Piling, Foxe Basin, N. W. T. (Arctic circular, Sept. 1950. v. 3, p. 31-32)

Report of starvation of family of five Eskimos unable to locate their food cache on west coast of Baffin Island in Feb. 1948; death of three, rescue and recovery of two of the party; reference to two earlier similar episodes in the same region.

**Copy seen:** CaMAI; DLC.

**20285. ARCTIC CIRCULAR.** The Stefansson Library. (Arctic circular, Feb. 1952. v. 5, no. 2, p. 22)

*Contains* news note on removal of Dr. Vilhjalmur Stefansson to Hanover, N. H. and his collection of some 25,000 volumes and 20,000 pamphlets dealing with arctic, antarctic and permafrost regions, to Baker Library, Dartmouth College.

**Copy seen:** CaMAI; DLC.

**20286. ARCTIC CIRCULAR.** Tuberculosis survey: James and Hudson Bays. 1950. (Arctic circular, Mar. 1951. v. 4, p. 45-47, tables)

Report on x-ray survey of natives of the west and east coasts of James Bay and the eastern coast of Hudson Bay north to Povungnituk. In this survey, carried out by the Indian Health Services of the Dept. of National Health and Welfare of Canada, over two thousand Eskimos, 850 Indians and 205 whites were x-rayed. General health conditions (only) are men-

tioned, with figures for percentage active disease (TB). Figures are also given from the *C. D. Howe* survey at Fort Chimo and on Baffin Island.

**Copy seen:** CaMAI; DLC.

**20287. ARCTIC CIRCULAR.** Two northern murder trials. (Arctic circular, Nov. 1951. v. 4, no. 5, p. 72-73)

Report of trials of a weather station officer at Resolution Island and of an Eskimo at Eskimo Point (West Hudson Bay coast) in July 1951.

**Copy seen:** CaMAI; DLC.

**20288. ARCTIC CIRCULAR.** U. S. Navy icebreaker. (Arctic circular, Feb. 1952. v. 5, no. 2, p. 21)

Contains news note on construction of the first post-World War II U. S. Navy ice-breaker (310 ft. long 74 ft. beam, 8,300 ton displacement).

**Copy seen:** CaMAI; DLC.

**20289. ARCTIC CIRCULAR.** The voyage of the C. G. M. V. "Nauja" to Foxe Basin in 1949. (Arctic circular, Sept. 1950. v. 3, p. 27-31, map)

Brief account of an expedition (the maiden voyage of this Canadian Government motor vessel, a Peterhead boat, specially built in Canada for arctic service) under T. H. Manning for the Canadian Geographical Bureau, July 8-Oct. 5, 1949; the run northward from Moosonee to Foxe Basin, around the Basin, reconnaissance of three islands "discovered" in 1948 by Royal Canadian Air Force personnel, and the return to Churchill. Includes notes on fauna, flora, surface features, geographic location, and previous history of these islands (67°-68° N. 73°-75° W.), named Prince Charles, Air Force, and Foley Islands.

**Copy seen:** CaMAI; DLC.

**20290. ARCTIC CIRCULAR.** Wildlife work in the Northwest Territories. (Arctic circular, Nov. 1951. v. 4, no. 5, p. 71-72)

Contains brief account of the eight officers of Canadian Wildlife Service carrying out research in the Territories, their respective investigations and areas.

**Copy seen:** CaMAI; DLC.

**20291. ARCTIC CIRCULAR.** Wind-chill. (Arctic circular, Mar. 1952, v. 5, no. 3, p. 32-34, diagr., table)

Contains notes on term "wind-chill": that in low temperature, cold is more keenly felt with wind than in calm; and outline of the "wind-chill scale" origi-

nated by Dr. Paul A. Siple (*Arctic Bibliography*, No. 16133), a formula to express rate of heat loss for a given combination of wind speed and temperature; finally, remarks on the wind-chill factor, as a measure of human comfort, and indicator of rate of cooling of mechanical equipment. **Copy seen:** DLC.

**20292. ARCTIC CIRCULAR.** Yellowknife broadcasting station, CFYK. (Arctic circular, Feb.-Mar. 1950. v. 3, p. 23-24)

Notice of the opening at Yellowknife in Mackenzie District on Feb. 18, 1950, of a non-commercial station, financed by donations, staffed by townspeople, and working on a cooperative system with the Royal Canadian Corps of Signals.

**Copy seen:** CaMAI; DLC.

**ARCTIC HEALTH RESEARCH CENTER, Anchorage, Alaska, see** Schiller, E. L. Studies helminth fauna Alaska V, Adak rats. 1952. No. 25951.

**ARCTIC HEALTH RESEARCH CENTER, Anchorage, Alaska, see also** U. S. Public Health Service. Arctic Health Research Center. Activities report. 1951. No. 26970.

**ARCTIC HEALTH RESEARCH CENTER, Anchorage, Alaska, see also** U. S. Public Health Service. Arctic Health Research Center. Weekly accessions Library. 1950- in progress No. 26971.

**ARCTIC INSTITUTE OF NORTH AMERICA, see** Alcan ingot. For arctic living. 1952. No. 20125.

**ARCTIC INSTITUTE OF NORTH AMERICA, see also** Alaskan Science Conference, Nov. 1950. Proceedings. 1951. No. 20117.

**ARCTIC INSTITUTE OF NORTH AMERICA see also** Alaskan Science Conference, Nov. 1950. Selected papers. 1952. No. 20118.

**ARCTIC INSTITUTE OF NORTH AMERICA, see also** Glaciological Conference 1st, N. Y. 1949. Report. 1950. No. 22129.

**ARCTIC INSTITUTE OF NORTH AMERICA, see also** Glaciological Conference 2d, N. Y. 1951. Proceedings. 1951. No. 22130.

**20293. ARCTIC RESEARCH LABORATORY, Point Barrow, Alaska. Hand-**

book. Pt. Barrow, Sept. 1951. 10+8 l. mimeographed.

Contains introductory statement on the establishment of this laboratory in the U. S. Naval Petroleum Reserve no. 4, the physical, climatic and faunal conditions of the area; research facilities and administration of the laboratory; information and blank forms (appendices A-E) for prospective contractors' submission of research proposals. A previous issue (revised Nov. 1950) had title: *Information handbook for contractors and prospective contractors for research projects at the Arctic Research Laboratory. . .*

**Copy seen:** CaMAI.

**20294. ARCTIC RESEARCH LABORATORY, Point Barrow, Alaska.** Progress report, 1949-52.

Issued monthly (mimeographed 5-10 l. each issue) from Aug. 31, 1949. Notes on each research project currently carried on, the sponsoring institution, personnel, and work done during the month.

**File seen:** CaMAI  
(Aug. 1949-Feb. 1952).

**20295. ARCTIC RESEARCH LABORATORY NEWSLETTER, Point Barrow, Alaska, 1949-**

Issued monthly (no. 1, July 1949, mimeographed, 5-10 l. each no.) to acquaint [those] ". . . interested in arctic research with problems peculiar to research investigations in remote arctic regions in general and the Arctic Research Laboratory, in particular." Lists personnel currently at the Laboratory and gives day-to-day notes on their activities and on happenings locally.

**File seen:** CaMAI.  
(no. 1-27, July 1949-Sept. 1951)

**20296. ARCTOWSKI, HENRYK, 1871-**

Volcanic dust veils and climatic variations. (New York Academy of Sciences. Annals, 1915. v. 26, p. 149-74, 7 figs., 3 tables)

"The hypothesis attributing most climatic variations to volcanic dust veils is presented as a matter of theoretical interest. Numerous references to violent eruptions and subsequent atmospheric dust observations, particularly those affecting radiation, are given and briefly discussed. References to 1883 eruptions of Krakatoa and Aleutian volcanoes; to 1901-1904 eruptions of Mt. Colima, Mexico, Pelée, and others; and 1912, Katmai. Brief discussion and references to atmospheric circulation of hemispheres.

Pike's Peak temperature records for years 1874-1887 are given; compared to temperature records at Port Darwin, Australia, Batavia, Singapore, India, and Aden. 1900-1911, 1909-1913 temperatures also noted. Relation between sunspots and temperatures investigated. Graph shows relation between temperature and volcanic activity, 1821-1900."—*Meteorological abstracts and bibliography*, June 1950, v. 1, no. 6, p. 367.

**Copy seen:** DLC.

**20297. ARENBERG, DAVID LEWIS, 1915-**

Meteorological factors affecting the icing of aircraft. Massachusetts Institute of Technology, Oct. 1942. 96 p. illus., tables. Master's thesis. Manuscript copy.

"Physical conditions and meteorological conditions for icing are reviewed, as well as variations of icing with air masses and relative frequency of icing with different frontal situations. A discussion of physics of clouds and conditions in them necessary for icing follows, and then a discussion of icing factors at selected mountain stations: Mount Washington, N. H.; Sonnblick Observatory, Austria; Nordenskiöld, Spitsbergen."—*Meteorological abstracts and bibliography*, Sept. 1950. v. 1, no. 9, p. 603.

**Copy seen:** MH-BH.

**20298. AR'EV, T. IĀ.** K voprosu o patologii i klinike obschego i mestnogo okhlazhdeniĭa. (Klinicheskaiā meditsina, 1950. t. 28, no. 3, p. 15-24) **Title tr.:** On the problem of the pathology and clinical aspects of general and local hypothermia.

Contains a general account and review of the problem with sections on: the effect of cold on the life of warm-blooded animals and on their tissues in culture; on their physiology, especially heart function, blood circulation and on the nervous system; physiology and pathology of general and local hypothermia (frostbite); therapy in its general and practical aspects; various views and methods of therapy. Bibliography (9 items).

**Copy seen:** DLC.

**20299. AR'EV, T. IĀ.** Klinika i lechenie otmorozheniĭ. (Vestnik khirurgii, Feb. 1941. t. 61, kn. 2, p. 223-36, 7 illus.)

**Title tr.:** Clinical aspects and treatment of frostbite.

Contains report to the Pirogov Surgical Society on Apr. 8, 1940, on a five-year study of the problem, with sections on

the clinical aspects of the four degrees of frostbite and in various regions of the body, first aid, therapy in general and of the various degrees in particular. The discussion following the lecture is published in this journal, t. 60, p. 228-30.

**Copy seen:** DLC.

**20300. AR'EV, T. IĀ.** O medlennom i bystrom sogrevanii otomrozhennykh konechnostei. (Vestnik khirurgii, May 1939, t. 57, kn. 5, p. 527-35, 6 illus.) **Title tr.:** On the slow and rapid warming of frozen limbs.

Contains a critical analysis of earlier studies and a report of author's experiments with rabbits. Methods of freezing and therapy, course and extent of injuries as well as histological findings are given. Though not yet rejecting the old methods of first aid in frostbite, the author recommends an extensive study of the problem. The study was made at the S. M. Kirov memorial clinic of surgery of the Academy of War Medicine RKKA.

**Copy seen:** DLC.

**20301. AR'EV, T. IĀ., and others.** Otmorozheniia. (In: Opyt sovetskoi meditsiny v Velikoi Otechestvennoi Voine 1941-1945 gg. Moskva, Medgiz, 1951. t. 1, p. 191-331, illus. plates, diagrs., tables) **Other authors:** V. S. Gamov, S. S. Girgolav and D. G. Rokhlin. **Title tr.:** Frost injuries. (In: Practice of Soviet medicine during the Great Patriotic War 1941-1945).

Contains an extensive monograph on frostbite written by leading Russian authorities, with the following chapters: 1. Historical data (p. 194-95), dealing with frostbite losses in wars since Napoleon's Russian campaign. 2. Statistical data (p. 196-210) on localization, extent, degree of damage; wound and frost damage combined, freezing to death. 3. Etiology and pathogenesis of frost injury (p. 211-37), dealing with kinds of frost damage; theory of pathogenesis; disseminative necrosis; conditions creating and assisting frostbite: mechanical impediments to circulation, local and general loss of resistance, effect of the tactical position. 4. Some data on tissue changes due to frostbite (p. 238-39). 5. Diagnosis (p. 241-51), presenting general and x-ray diagnosis. 6. Classification and symptomatology of frostbite (p. 252-59), discussing four degrees of frostbite, symptoms, x-ray pictures, etc. 7. Complications (p. 260-80), deal-

ing with local complications of soft tissues, joints and bones; general complications; late complications and sequelae. 8. Therapy (p. 281-321), including first aid; conservative therapy; surgical therapy; post-operative treatment; therapy according to the degree of frostbite. 9. Prophylaxis (p. 322-23), collective and general. 10. Results and conclusions (p. 326-31), stressing the value of instructing the soldier about frostbite and its prophylaxis; the importance of proper clothing and shoe gear; the great success of therapy by quick re-warming, and the preference for early necrotomy and necrectomy.

**Copy seen:** DLC.

**20302. AR'EV, T. IĀ.** Profilaktika otomrozheniĭ. (Voenno-meditsinskii zhurnal, Dec. 1946, no. 12, p. 3-8) **Title tr.:** The prophylaxis of frostbite.

Contains a review article based on the experience of World Wars I and II, and dealing with the causes of frost injury: low temperature, moisture, mechanical slowing of circulation (e. g. through tight clothing, footwear), general and local decrease of resistance. This is followed by a discussion and presentation of preventive measures of three kinds: (1) group prophylaxis (organization of hygienic field covers and quarters; proper food supply, etc.); (2) proper and hygienic clothing and footwear; (3) personal hygiene. The problem of foot-wear and -care is discussed in detail.

**Copy seen:** DLC.

**20303. AR'EV, T. IĀ.** Zamerzanie. (In: Ėnsiklopedicheskii slovar' voennoi meditsiny, ed. E. T. Smirnov. Moskva, 1947. t. 2, col. 751-53) **Title tr.:** Freezing. (In *Encyclopedic dictionary of war medicine*)

Contains a definition of the term as applied to human beings and information on the critical temperature of hypothermic death, symptoms at various lowered body temperatures, mass occurrences of freezing in peace and war. Successive symptoms during freezing, therapy, and prophylaxis are discussed. Bibliography is given under the heading: "Otmorozhenie" (Frostbite). **Copy seen:** DSG.

**20304. ARGAMAKOVA, V. F.** Nekotorye ofiury vostochnogo Sakhalina. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1934, nouv. ser., v. 4, no. 5-6, p. 348-52) **Title tr.:**

Certain brittle-stars (Ophiuroidea) of eastern Sakhalin.

Contains description of three species of fossil Ophiura, two of them new. Translation in German, p. 350-52.

**Copy seen:** DLC.

**20305. ARKHANGEL'SKAIĀ, N. A., and others.** K fiziologii kholodovogo staza; predvaritel'noe soobshchenie. (Büileten' éksperimental'noi biologii i meditsiny, 1943. t. 15, no. 3, p. 17-19, 3 fig.) *Other authors:* A. B. Drobinseva, I. T. Kurfsin, A. T. Pshonik, and V. N. Chernigovskii. **Title tr.:** On the physiology of cold stasis; preliminary report.

Contains a study on blood gases of anesthetized dogs, whose extremity was frozen with a salt-ice mixture. The basic damage to tissues due to deep, long, cold-exposure was found to be caused by oxygen hunger of these tissues which has an ischemic-anemic course. Previously listed as *Arctic Bibliography*, No. 669. **Copy seen:** DLC.

**20306. ARKHANGEL'SKII, ANDREĬ DMITRIEVICH, 1879-1940.** Geologicheskoe stroenie i geologicheskaiâ istoriâ SSSR v dvukh tomakh, izdanie chetvertoe. Tom pervyi; Geologicheskoe stroenie SSSR i ego otnoshenie k stroeniû ostal'noi poverkhnosti zemli. Tom vtoroi: Dokembrii i paleozoi. Moskva—Leningrad, Gosudarstvennoe izd-vo geologicheskoi literatury ministerstva geologii SSSR, 1947-1948. v. 1: 414 p., illus., maps (22 fold.); v. 2: 372 p., diagrs., maps (2 fold.). **Title tr.:** Geological structure and geological history of the U.S.S.R. in two volumes, fourth edition. Vol. 1: Geological formation of the U.S.S.R. and its relation to the surface structure of the rest of the world. Vol. 2: The pre-Cambrian and Paleozoic.

**Contents:** v. 1, pt. 1. The territory of the U.S.S.R. and Eurasia as a whole. (1) areas of pre-Cambrian and Paleozoic foldings; (2) main lines of structure of the upper Paleozoic folds; (3) main outlines of the structure of Mesozoic foldings; (4) main lines of structure of Tertiary foldings. Pt. 2. Africa, Australia, America, Antarctic and the oceans. (1) Africa; (2) Indian Ocean; (3) Australia, Melanesia and Micronesia; (4) North America; (5) Central America; (6) South America and the Antarctic continent; (7) Pacific ocean; (8) Atlantic and Arctic oceans. Part 3. Some general conclusions. The

following arctic areas are dealt with: Lena-Yenisey area (p. 124-27); Kanin, Spitsbergen, Rybachiy Peninsula and Bear Island (p. 137-40); Taymyr, Severnaya Zemlya and Yenisey area (p. 205-210); Upper Kolyma and Chukhotsk areas (p. 241-46); Kamchatka (p. 276-79); Arctic Ocean (p. 353).

Vol. 2. (1) Pre-Cambrian group; (2) the Cambrian system; (3) the Silurian system; (4) the Devonian system; (5) the Carboniferous; (6) The Permian. The following arctic areas are discussed in nearly all chapters: Kanin, Taymyr, Severnaya Zemlya, Yenisey area, Kola. Bibliography 580, 986 items).

**Copy seen:** DLC.

**20307. ARKHANGEL'SKII, ANDREĬ DMITRIEVICH, 1879-1940.** The principal features of the tectonics of the northern part of the Atlantic Ocean and Arctic. (Akademiâ nauk SSSR. Comptes rendus (Doklady), 1938. nouv. ser., v. 19, no. 8, p. 611-13)

Contains circumpolar survey based on literature (9 items cited).

**Copy seen:** DLC.

**ARKTICHESKIE NAVIGATSIĬ. SBORNIK Pervyi.** Moskva, izd-vo Glavsevmorputi, 1941. (268 p. illus., ports, maps. **Copy seen:** DLC). See Zubov, N. N., & others. *Arkticheskie navigatsii*, in *Arctic Bibliography* No. 19970.

**ARKTICHESKII INSTITUT, Leningrad,** see Leningrad. Vsesoiûznyĭ arkticheskii institut.

**20308. ARMSTRONG, EDWARD A.** Discharge of oily fluid by young fulmars. A supplementary note to "Field studies on the fulmar" by Eric Duffey. (Ibis, 1951. v. 93, no. 2, p. 237-51)

"It is suggested that the squirting of oily fluid by the young fulmar is a defence mechanism primarily against winged predators and that it has played an important part in enabling this species to extend its range from the Antarctic to the north Atlantic." Summary, p. 250.

**Copy seen:** MH-Z

**20309. ARMSTRONG, TERENCE E.** The cold pole of the world. (Weather, Dec. 1952. v. 7, no. 12, p. 368-69, diagr.)

Contains a note on the replacement of Verkhoyansk by Oymyakon (63°16' N. 143°15' E., altitude 800 m.) as the cold pole of the world. Author draws atten-

tion to the fact that this claim is based on four years' observations only (1930-33), he also points out the contradictions, or possible errors, in the claims to the lowest absolute air temperature observed. Bibliography (9 items).

**Copy seen:** DWB.

**20310. ARMSTRONG, TERENCE E.** The Northern Sea Route; Soviet exploitation of the North East Passage. Cambridge, University Press, 1952. xiii, 162 p., 6 plates, 9 maps incl. 1 fold. (Scott Polar Research Institute. Special pub. no. 1)

Exhaustive study, based largely on Russian sources, providing an historical survey of the Route prior to 1933 (p. 1-36); data on its physical characteristics, traffic, administration, equipment and scientific investigation 1933-49 (p. 37-103); analysis of its economic and strategic usefulness, and appraisal of results achieved by its development (p. 103-119). *Appendices* (9) present data on traffic and freight turnover, lend-lease shipping 1942-45, Soviet ice-navigating vessels, polar stations, coal analyses, and text of the decree of Jan. 25, 1941 on Glavsevmorput'. An extensive bibliography of about 400 publications is included. The Northern Sea Route is treated in its entirety from Murmansk to Vladivostok, as well as in its parts: the Kara Route, the Pacific-Kolyma and Lena, and the Yenisey-Lena sectors. River shipping, arctic sources of ships' fuel, types of vessels and ports along the Route are discussed in considerable detail. Scientific and other institutions and individuals contributing to the Route's development are signalized. Author concludes the Route is not yet justified economically but has benefited the U.S.S.R. strategically, also in socialization of the native population, for communistic propaganda, and in science. Future scientific and technical developments may increase its economic importance, on the other hand climatic deterioration, reversing the recent favorable trend, may jeopardize the very existence of the Route. Reviewed by J. C. Webster in *Arctic*, Dec. 1952, v. 5, no. 4, p. 241-49.

**Copy seen:** CaMAI; DLC.

**20311. ARMSTRONG, TERENCE E.** Place-names in the Soviet Arctic. (Polar record, Jan. 1950. v. 5, no. 39, p. 408-426) *Contains* remarks on non-Russians' confusion resulting from use of variant names (often simply translations) for

places in the Soviet Arctic. General use of local official, i. e. Russian, names is recommended, particularly as most features in the Soviet Arctic bear Russian names, and those (few) of foreign origin have been russianized. Russian place names are analyzed as to origin and structure. The principal British and American map- and chart-making agencies are noted and their policies discussed as to (1) system of transliteration, treatment of (2) Russian place names of Western European origin, (3) generic parts and "map information", (4) English names, and (5) variant Russian forms. Then follows author's recommendations on these five problems; also a glossary of some 150 generic terms and general words from Soviet Arctic maps given in transliteration and Cyrillic alphabet with meaning in English. This paper is discussed in J. F. Gellert *Die geographischen Namen in der Sowjetarktis*, 1951, q. v.

**Copy seen:** CaMAI; DLC.

**20312. ARMSTRONG, TERENCE E.** "Zemlya Sannikova." (Polar record, Jan.-July 1948. v. 5, no. 35-36, p. 214-15)

*Contains* summary of this geographical puzzle based on Russian sources: the supposed sightings of the island (from Kotel'ny Island to the northwest, about 1805-1811 by the trader Sannikov, and subsequently by Toll and others), traverse of its supposed locality by ship and aircraft till 1944, and conclusion that it does not exist.

**Copy seen:** DLC.

**ARNBORG, ANDERS TORE JULIUS,** *see* Arnborg, Tore, 1912-

**20313. ARNBORG, TORE, 1912-** Der Vallsjö-Wald, ein nordschwedischer Urwald. (Acta phytogeographica suecica, 1940. t. 13, *Växtgeografiska studier tillägnade C. Skottsberg*, p. 128-54, plates 11-19) **Title tr.:** Vallsjö forest, a virgin forest of northern Sweden.

*Contains* a general survey of the investigated region in southern Swedish Lapland and its woody vegetation, a study of various forest types and plant associations for each type with list of typical plants, also description of some other plant formations around this virgin forest; and a bibliography (26 items).

**Copy seen:** DA; MH-A.

**20314. ARNDT, WALTHER, 1891-** Die Süßwasserschwammfauna Schwedens, Finnlands und Danemarks, 2. Beitrag zur Kenntnis der skandinavischen Spongillidenfauna. (Arkiv för zoologi,

1932. Bd. 24 A, no. 3, p. 1-33, illus.) **Title tr.:** Fresh-water sponge fauna of Sweden, Finland and Denmark, 2. Contributions to the knowledge of Scandinavian Spongillidae.

**Contains** a critical revision of fresh-water spongillids of Sweden, Finland and Denmark, including *Spongilla lacustris* and *Ephydatia mulleri*, native to Swedish Lapland, with list of localities and notes on habitat and ecology; a table for the determination of fossil and recent spongillids (genera, species and varieties) of Europe; bibliographies for each country. (23, 22, 15 items.) This is a continuation of the author's *Die Süßwasserschwammfauna Norwegens* (see *Arctic Bibliography* No. 691).

**Copy seen:** MH-Z.

**20315. ARNELL, SIGFRID VILHELM, 1895-** . Comments on some Swedish species of *Cephaloziella*. (Botaniska notiser, 1950, häfte 1, p. 83-90)

**Contains** critical notes on eleven species of the liverwort genus *Cephaloziella* growing in Sweden, including *C. arctica* and related forms extending to Torne Lappmark, in northern Sweden.

**Copy seen:** MH-A.

**20316. ARNELL, SIGFRID VILHELM, 1895-** . *Leiocolea arctica* nov. spec. (Svensk botanisk tidskrift, 1950. Bd. 44, häfte 2, p. 374-78, illus.)

**Contains** Latin descriptions, and critical notes (in English) on *Leiocolea arctica*, n. sp., native to Novaya Zemlya, and Torne and Lule Lappmark in northern Sweden; with a comparison between *L. arctica* and four related species of the same genus.

**Copy seen:** MH-A.

**20317. ARNELL, SIGFRID VILHELM, 1895-** . Tre nya storcelliga levermossvarieteter. (Svensk botanisk tidskrift, 1950. Bd. 44, p. 81-85, illus.) **Title tr.:** Three new large-celled varieties of liverworts.

**Contains** descriptions in Swedish of three new large-celled varieties of liverworts, *Lophosia wenzellii* var. *lapponica* n. var. and *L. silvicola* var. *grandiretis*, native to Swedish Lapland and *Titomaria quinqueidentata* var. *grandiretis* n. var. from Torne Lappmark, northern Sweden, and Novaya Zemlya (72°20' N.).

**Copy seen:** MH-A.

**20318. ARNESEN, EMILY.** Brutknospenbildung bei *Polymastia mammillaris* (O. F. Müll.) Bow. (*Rinalda arctica* Meref.) (Norske videnskabers selskab,

Trondhjem. Skrifter, 1917, pub. 1918, nr. 1, p. 1-24, plates 1-6) **Title tr.:** Budding of *Polymastia mammillaris* (O. F. Müll.) Bow. (*Rinalda arctica* Meref.)

**Contains** a study of asexual reproduction of a sponge, *Polymastia mammillaris*, by budding, with a description of the process; genesis of the budding material, histological differentiation and anatomic characteristics of the buds, a comparison of the development of buds, gemmulae and eggs, and a bibliography (32 items); based on material from Tromsø and Vadsø regions of northern Norway.

**Copy seen:** DLC; MH.

**20319. ARNESEN, EMILY.** Spongien von der norwegischen Küste, II. Monaxonida: Halichondrina. (Bergen, Norway. Museum Aarbok, 1903. No. 1, p. 1-30, plates 1-7) **Title tr.:** Sponges of the Norwegian coast, II. Monaxonida: Halichondrina.

**Contains** a critical study of marine sponges along the coast of Norway with a systematic list of 31 halichondroid species, synonymy, critical notes, data on habitat and localities in Norwegian waters; includes descriptions of nine new species of which *Yvesia mammillata* is native to Bodø in Tromsø and three other species recorded from northern regions (Tromsø, Lofoten Islands); a continuation of the author's *Spongier*, I. 1901, q. v.

**Copy seen:** MH-Z.

**20320. ARNESEN, EMILY.** Spongier fra den norske kyst, I. Calcarea. Systematisk katalog med bemerkninger og bestemmelsestabel. (Bergen, Norway. Museum. Aarbok, 1900, pub. 1901. no. 5, p. 1-46, plate) **Title tr.:** Sponges from the Norwegian coast, I. Calcarea. A systematic catalog with notes and a table for determination.

**Contains** a survey of the study of the calcareous sponges of Norwegian coast; a systematic catalog of 26 species and six varieties of sponges, including *Ebnerella nitida* n. sp. from Tromsø and at least ten other species native to northern waters of Norway; a table of vertical and horizontal distribution; a key to the species (in German) and a bibliography (81 items); part II of this work was published as *Spongien von der norwegischen Küste II*, 1903, q. v.

**Copy seen:** MH-Z.

**ARNESEN, ODD,** see Bathen, F. Hvordan Norsk Polarklubb. 1949. No. 20500.

**20321. ARNOLD, CHESTER A.** A paleobotanical excursion in northern Alaska. (Asa Gray bulletin, July 1952. New ser. v. 1, no. 3, p. 269-82, illus. map)

Contains informal account of the trip of a three-man party during July-Aug. 1951, in U. S. Naval Petroleum Reserve no. 4, the area between the Colville River and the arctic coast; remarks on its geography, permafrost substratum, climate and light conditions and their effect on man and animals; the Arctic Research Laboratory and life at Point Barrow; flight to Umiat and search for fossils; trip by boat down the Colville River; first fossil plants encountered (*Sequoia*); further finds of *Ginkgo* and *Podozamites*; arrival at the mouth of Killik River; return (by plane).

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**20322. ARNOLD, CHESTER A.** Paleobotanical investigations in Naval Petroleum Reserve no. 4, Alaska. (Science, July 18, 1952. v. 116, no. 3003, p. 61-62)

Contains an account of a collecting trip made by a three-man party from the University of Michigan during the summer of 1951, mostly along the Colville River (69° N., 154° W.) bordering the southern edge of the Reserve. Fossil remnants were collected of plants representing conifers, cycadophytes, ginkgoes, ferns, but few dicotyledons. The study was made in order to determine the age of the rock formations of the area, specifically whether they belong to the Upper or Lower Cretaceous. Copy seen: DLC.

**ARNOLDI, L. V.,** see Luk'fanovich, F. K., & L. V. Arnoldi. Oprod. dolgonosikov-trukhljakov. 1951. No. 24003.

**20323. ARO, PAAVO ROBERT, 1899-** Tutkimuksia rinnankorkeus- ja katkaisu-läpimitan vaikutuksesta käyttöpuun ja hakkuu-tähteiden määrään. Helsinki, 1935. 188 p., tables, diagr. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 20:4) Title tr.: Studies on the relationship between breast-height and cutting-height diameter on useable timber and the amount of felling.

Contains data on the residual timber from pine and spruce of northern, in comparison with that of southern, Finland. Bibliography (100 items). Summary in German, p. 161-88. Copy seen: DLC.

**20324. ARONSON, JOSEPH DAVIS, 1889-** The history of disease among

the natives of Alaska (Alaska health, 1947. v. 5, no. 3, p. 1-2; no. 4, p. 3-4; no. 5, p. 5-6; no. 6, p. 4-5; no. 7, p. 3-4)

Reports and records of early explorers lead to the conclusion that diseases due to food deficiency existed among Alaskan natives prior to the coming of the white man, but smallpox, tuberculosis and syphilis were most probably introduced by him. The Russian missions kept records of death among natives and the author, aided by such records, concludes that smallpox caused more havoc than all of the other diseases; tuberculosis while not epidemic, took a great toll of human life and syphilis became widespread.

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**ARONSON, JOSEPH DAVIS, 1889-** see also Townsend, J. G., & others. Tuberculosis control Indians. 1941. No. 26789.

**20325. ARSEN'EV, V. A.** Nekotorye dannye o belukhe (*Delphinapterus leucas* Pall.) i ee promysle na Sakhaline. (Rybnoe khoz'fajstvo Dal'nego Vostoka, 1935, vyp. 13, kv. 1, p. 89-99, tables) Title tr.: Some data on the white whale *Delphinapterus leucas* Pall.) and its industry in Sakhalin.

Contains observations concerned largely with bigger herds of the beluga: times and localities of appearance, number of head in the herds; direction of their movements; percentage of kills; composition of catches as regards trade varieties, sex and individual and average weights.

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**20326. ARSEN'EV, V. K.** Komandorskie ostrova v 1923 godu. (In: Dal'ne-Vostochnyy kray. Upravlenie rybolovstva i okhoty na morskogo zverfa. Rybnye i pushnye bogatstva Dal'nego Vostoka, 1923. p. 420-64, illus., tables, maps) Title tr.: The Komandorskiye Islands in 1923.

Contains sections on the geography, history and conditions on the islands in the early 1920's; the population; school; radio station; sealing, hunting and their control; protection of the seal-breeding grounds; supplying the island with food, etc.

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**20327. ARTEM'EV, B. N.** Kassiterit iz raiona mysa Chaplina (Chukotskiy poluostrov). (Akademika nauk SSSR. Doklady, seriia A, 1933, no. 6, p. 88-93, illus.) Title tr.: The cassiterite of the Cape Chaplina region (Chukotsk Peninsula).

Contains preliminary outline of the

components of the ore in the region once known as Indian Point (64°24' N. 172°14' W.); results of its macro- and microscopic examination. **Copy seen:** DLC.

**20328. ARTEM'EV, VIACHESLAV P.** Poprannaiä tsennost' Iakutii. (Svobodnyi Kavkaz, Jan.-Feb. 1952. no. 1-2 (4-5), p. 29-34) **Title tr.:** The plundered treasures of Yakutia.

Contains an account of the geography and natural resources; the inhabitants and their occupation: hunting; the exploitation of the hunters by the Soviet régime; the labor camps; the relation of the Yakuts to the "bad Russians" of the present as compared with that to the "good Russians" of the czarist régime.

**Copy seen:** DLC.

**20329. ARTHUR, ERIC ROSS, 1898-**, and others. Moose Factory 1673 to 1947. I History. II Men in charge. III Architecture. IV Plates. Toronto, printed for the authors at the University of Toronto Press, 1949. 16 p. (incl. double-page map), 21 illus. on [14] p. **Other authors:** Howard Chapman, Hart Massey.

Result of a visit in summer 1947 to Moose Factory and subsequent research by the authors (from the School of Architecture, University of Toronto). Account of the Hudson's Bay Co. and its trading post established on Hayes Island twelve miles up Moose River from the southern end of James Bay in 1674; list of men in charge of the post 1730-1948, and district managers 1912-1948; discussion of main older buildings from the architectural viewpoint, their functional character, historic interest, etc. Illustrations show site, buildings, furniture, etc.

**Copy seen:** CaMAI.

**20330. ARTIMO, ATSO.** Suomen limnologian eli sisävesitutkimuksen viimeaikaiset saavutukset. (Terra, 1946. 58:2, p. 33-51) **Title tr.:** The latest results of Finnish limnological research work.

Contains survey of notable investigations during the previous decade in hydrography, physics, chemistry, biology, plankton, shore and bottom fauna, fish, brackish water, ponds, lake development and types; with list of about 80 publications.

**Copy seen:** DLC.

**20331. ARWIDSSON, IVAR, 1873-**. Studien über die Familien Glyceridae und Goniadidae. (Bergen, Norway. Museum. Aarbok, 1898, pub. 1899. no. 11,

p. 1-69, 4 plates) **Title tr.:** Studies on the families Glyceridae and Goniadidae.

Contains a monographic treatment of 11 species of marine worms of the family Glyceridae (one genus and three species described as new), and ten of the fam. Goniadidae (four species are new), with analyses, synonymy, critical notes and data on geographic distribution; based on the study of Annelida of Scandinavian and European museums (Hamburg, London, Paris). Includes *Clycera capitata* found in Finnmark, Lofoten and East Greenland waters, and *Glycinde wireni* caught near St. Lawrence Island in Bering Sea.

**Copy seen:** MH-Z.

**20332. ARWIDSSON, THORSTEN, 1904-**. Studien über die Gefässpflanzen in den Hochgebirgen der Pite Lappmark. Uppsala, Almqvist & Wiksell, 1943. 274 p., illus., 16 plates, text maps. (Acta phytogeographica suecica, 17) **Title tr.:** Studies of vascular plants in the high mountains of Pite Lappmark.

Contains data on the physical geography and history of botanical exploration of Pite Lappmark in northern Sweden, influence of reindeer on the vegetation, observations on vertical limits of various woody and vascular plants, general distribution of some characteristic plants in Scandinavia, southern element in the flora of Pite Lappmark, influence of the ice age, the problem of *Empetrum hermaphroditum*, the vegetation of the Peskehaure delta, observations on weed flora, a systematic enumeration of about five hundred vascular plants, including Latin diagnosis of *Tarazacum sulitelma* n. sp., and a bibliography (about 500 items).

**Copy seen:** DA; MH-A.

**20333. ASCHOFF, JÜRGEN.** Der Anstieg der Rectaltemperatur bei umschriebener Abkühlung der Körperoberfläche. (Pflügers Archiv für die gesamte Physiologie, 1944. Bd. 248, p. 149-57) **Title tr.:** The rise in the rectal temperature due to local cooling of the body surface.

Contains a study of heat loss through the hands in air and water of 13° C., and its effect on the total heat loss of the body. Under the above conditions an actual decrease of total heat loss by 120 cal./min. was observed. This fact is explained by the vasoconstriction taking place in the hand which reduces heat loss. The saved heat is sufficient to raise the rectal temperature. All this holds true only if the cold stimulus affects a not too extensive area which normally partic-

pates strongly in the total heat loss (*lit.*: release). Bibliography (13 items).

**Copy seen:** DLC.

**20334. ASCHOFF, JÜRGEN.** Einige allgemeine Gesetzmässigkeiten physikalischer Temperaturregulation. (Pflügers Archiv für die gesamte Physiologie, 1947. Bd. 249, p. 125-36, 4 fig.) **Title tr.:** Some general regularities of physical temperature regulation.

*Contains* an introductory, fundamental study made at the Physiological Institute of the University of Göttingen, resulting in the establishment of: a reliable method for measuring heat loss; the effect of food and diurnal period on "heat passage"; a 24-hour rhythm in physical temperature regulation and the effect of sleep on the latter. Bibliography (about 25 items).

**Copy seen:** DLC.

**20335. ASCHOFF, JÜRGEN.** Grundversuche zur Temperaturregulation. Über vergleichende Messwerte zur Beurteilung der Wärmeabgabe an Wasser. (Pflügers Archiv für die gesamte Physiologie, 1944. Bd. 247, p. 469-79, 5 fig.) **Title tr.:** Basic experiments in temperature regulation. Comparative values in the estimation of heat loss in water.

*Contains* a study centered primarily on whether it is possible to reduce heat loss in the hand, by changing the heat conductivity of its surface and the upper layers of the skin. A method is described which produces fundamental data on heat loss to water, data which enables one numerically to compare various conditions of heat passage. Bibliography (7 items).

**Copy seen:** DLC.

**20336. ASCHOFF, JÜRGEN.** Grundversuche zur Temperaturregulation. Vergleich unterschiedlicher Wärmedurchgangsbedingungen am Modellkörper und an der Hand. (Pflügers Archiv für die gesamte Physiologie, 1944. Bd. 247, p. 480-96, 8 fig.) **Title tr.:** Basic experiments in temperature regulation. Comparison of various conditions of heat passage in a dummy and in the hand.

*Contains* a study of heat loss in dummies made of glass; in hands with full and cut-off circulation and of the differences in heat loss between the left and right hand. The effect of coating hands and dummies with vaseline, etc., is also studied. Bibliography (about 25 items).

**Copy seen:** DLC.

**20337. ASCHOFF, JÜRGEN.** Kreislauf-regulatorische Wirkungen der Kälte-dilatation einer Extremität als Folge extremer, umschriebener Abkühlung. (Pflügers Archiv für die gesamte Physiologie, 1944. Bd. 248, p. 436-42, 3 fig.) **Title tr.:** Regulation of circulation by cold-dilatation of an extremity, as a result of localized deep-cooling.

*Contains* a study on the effect cooling a circumscribed area of the hand to below 8° C., has on the circulation of the arm, and indirectly on the total blood circulation. The mechanism of this indirect long-distance effect is discussed and similar phenomena caused by application compression cuffs brought forward. Bibliography (8 items).

**Copy seen:** DLC.

**ASCHOFF, JÜRGEN.**

Mitteilungen zur physikalischen Temperaturregulation 1-3, *see* his:

- (1) Einige allgemeine Gesetzmässigkeiten...
- (2) Zur Regulationsbreite...
- (3) Die obere Extremität....

**20338. ASCHOFF, JÜRGEN.** Die obere Extremität im Dienst der physikalischen Temperaturregulation. (Pflügers Archiv für die gesamte Physiologie, 1947. Bd. 249, p. 148-66, 7 fig.) **Title tr.:** The upper extremity in the service of physical temperature regulation.

*Contains* a detailed study of conditions in various parts of the upper extremity of man with regard to their role in temperature regulation. The underlying blood circulatory mechanism seated in the arterio-venous anastomoses is discussed, and its efficiency in various areas touched upon. Bibliography (about 50 items).

**Copy seen:** DLC.

**20339. ASCHOFF, JÜRGEN, and F. KAEMPFFER.** Über den Wärmedurchgang durch die Haut und seine Änderung bei Vasokonstriktion. (Pflügers Archiv für die gesamte Physiologie, 1947. Bd. 249, p. 112-24, diags., tables) **Title tr.:** On heat passage through the skin and its alteration during vasoconstriction.

*Contains* a report on calorimetric measurements of cooling of the hand in water of 12.5° C. The difference between its behavior and that of a model (dummy) under same circumstances, is traced to vasoconstrictory processes; the latter reduce progressively the heat passage, ten minutes after the cold stimulus has been applied. This observation enables

an agreement between theoretical and observed data and between intact and isolated tissues. Bibliography (6 items).

**Copy seen:** DLC.

**20340. ASCHOFF, JÜRGEN.** Über die Interferenz temperaturregulatorischer und kreislaufregulatorischer Vorgänge in den Extremitäten des Menschen. (Pflügers Archiv für die gesamte Physiologie, 1944. Bd. 248, p. 197-207, 7 fig.) **Title tr.:** On the interference of temperature-regulatory and circulation-regulatory processes in the extremities of man.

*Contains* a study of the phenomenon consisting in a rise of temperature in various areas of the body surface, when a consistent cold stimulus affects the hand. The cause of it was found to be the reduction of heat-loss in the cooled hand effected by vasoconstriction and accompanied by a rise of blood pressure. The same effect can be brought about by cutting of the circulation in one or more extremities with a pneumatic cuff. These phenomena show the role circulation plays in temperature regulation of the body. Bibliography (14 items).

**Copy seen:** DLC.

**20341. ASCHOFF, JÜRGEN.** Über die Kälte-dilatation der Extremität des Menschen in Eiswasser. (Pflügers Archiv für die gesamte Physiologie, 1944. Bd. 248, p. 183-96, 7 fig.) **Title tr.:** On the dilatation by cold of the human extremity in ice water.

*Contains* a detailed study of the circulation of the hand when held in ice water and when taken out of it. The strong vasodilatations taking place at 30 min. intervals at temperatures below 8-10° C. correspond, in their origin at the fingertips, to the vasodilatations during heating of the body. The special significance of the arterio-venous anastomoses in the process is discussed, as well as the special position of the extremities in the framework of physical temperature regulation. Bibliography (25 items).

**Copy seen:** DLC.

**20342. ASCHOFF, JÜRGEN.** Die Vasodilatation einer Extremität bei örtlicher Kälteeinwirkung. (Pflügers Archiv für die gesamte Physiologie, 1944. Bd. 248, p. 178-82) **Title tr.:** The vasodilatation of an extremity on local cold effect.

*Contains* a report on experiments by immersing the hands in cold water. At 10-13° C. of the water a local vaso-

constriction was observed, lasting through the period of the cold stimulus, and resulting in a maximal reduction of heat loss. Below 8-10° C. of the water vasoconstriction is followed by strong dilatations taking place at 30 min. intervals, which almost doubles the heat loss. This represents a regular reaction of considerable importance to the best economy and to the regulation of peripheral circulation. Bibliography (10 items).

**Copy seen:** DLC.

**20343. ASCHOFF, JÜRGEN.** Zur Regulationsbreite der physikalischen Temperaturregulation. (Pflügers Archiv für die gesamte Physiologie, 1947. Bd. 249, p. 137-47, 6 fig.) **Title tr.:** On the range of the physical temperature regulation.

*Contains* a study of the circulation in hands and fingers as a physical regulator of temperature. The dependence of this mechanism on food intake, time of the day, ambient temperature, etc., are discussed. The problem of comfortable temperature is also analyzed, and the question of overcompensation considered. Bibliography (13 items).

**Copy seen:** DLC.

**ASHWORTH, C. T.,** see Muirhead, E. E., & others. Experimental freezing shock changes body fluids & tissues. 1942. No. 24534.

**20344. ASKWITH, C. H. E.** Arctic Test Branch. (Canadian army journal, Dec. 1950. v. 4, no. 7, p. 43-47, illus.)

*Contains* account of the Arctic Test Branch of U. S. Army Field Forces at Big Delta, Alaska, in the Tanana valley 105 miles southeast of Fairbanks, near the junction of Alcan and Richardson Highways. Local climatic conditions are noted, the organization (in detail) and work (in brief) are described. The Branch conducts tests on equipment and develops data on environmental effects on equipment and personnel.

**Copy seen:** DLC.

**20345. ASPELIN, JOHAN REINHOLD, 1842-1915.** Pirkka; t:ri A. H. Reinholm vainajan muistoonpanojen mukaan esittänyt J. R. Aspelin. (Suomalais-ugrilainen seura. Aikakauskirja, 1888. 3, p. 128-32) **Title tr.:** Tally; from the notes of the late Dr. A. H. Reinholm presented by J. R. Aspelin.

*Contains* short description of the counting device used by the Finns,

Karelians, Estonians, Lapps, and Zyryans. It is noted that Russians and Poles have the same word "birka" for tally.  
**Copy seen:** DLC; InU.

**20346. ASTAF'EV, A.** Grelka. (In: *Ėnsiklopedicheskiĭ slovar' voennoi meditsiny*, ed. E. I. Smirnov, Moskva 1947. t. 2, col. 248-49) **Title tr.:** The warmer. (In *Encyclopedic dictionary of war medicine*)

Contains a description of, and instruction for use of chemical warmers (one a pocket type); these by addition of small amounts of water, produce heat for several hours and are used in extreme cold. Some other types are also mentioned. Bibliography (3 items).

**Copy seen:** DSG.

**20347. ASTAPOVICH, I. S.** Bol'shoĭ Tunguskii meteorit, 2. Rezul'taty issledovaniĭ. (Priroda, Mar. 1951. t. 40, no. 3, p. 13-23, 6 fig.) **Title tr.:** The great Tungus meteorite, 2. Results of investigations.

"This article contains a description of the meteorological conditions that prevailed when the great Tungus meteor fell on June 30, 1908, of the accompanying sound waves and their effects and of the atmospheric waves."—*Meteorological abstracts and bibliography*, Nov. 1952. v. 3, no. 11, p. 1179. Bibliography (58 items).

**Copy seen:** DLC.

**ASTASHENKO, K. I.**, see Kuznetsov, E. A., & K. I. Astashenko. Geol. stroenie khrebtā Pal-khof. 1938. No. 23557.

**ASTWOOD, E. B.**, see Tyslowitz, R., & E. B. Astwood. Influence pituitary & adrenal cortex resistance low temp. 1942. No. 26870.

**20348. ATLANTIC GUARDIAN**, a magazine of Newfoundland, St. John's, Nfld. 1944?—current.

Monthly about 50 p. each issue, fully illus., with brief popular articles on life and interests of Newfoundlanders, including frequently, accounts of sealing, and other activities in northern waters and on the Labrador coast.

**File seen:** CaMAI.

**ATWOOD, Mrs. ROBERT B.**, see Anchorage Daily Times. Alaska's struggle for self government. 1950. No. 20186.

**20349. AUBEY, M. H.** Pet-4 Logistics. (U.S. Navy Civil Engineer Corps bulletin, Jan. 1951. v. 5, no. 50, p. 14-15 incl. illus.)

"The transportation of well-drilling equipment from Point Barrow to remote sites of the Naval Petroleum Reserve No. 4 under difficult winter conditions is described. Surface transportation by four tractor trains proved inadequate for 1,300,000 ton-mi. of freighting. A backlog of 750 t. of supplies were transported in 14 days by five multiple-engine planes. Temperatures dropped as low as  $-20^{\circ}$  F. during operations. Airlifting of large quantities of material proved more economical than tractor training at overland distances over 100 mi."—SIPRE.

**Copy seen:** DLC.

**20350. AUER, J.** Fingerprints in Eskimos of the Northwest Territories. (American journal of physical anthropology, 1950. new ser. v. 8, p. 485-88, tables, diagr.)

Contains analysis of fingerprints of full-blooded Eskimos mainly from Baffin Island with some from Ellesmere Island and Keewatin, giving frequencies of fingerprint pattern types; total frequencies of the principal pattern types; sexual distinctions; dactylodiagram, etc. Bibliography (8 items).

**Copy seen:** DLC; NNM.

**20351. AUER, VÄINÖ, 1895-** "Aavikkopaholainen." (Terra, 1935. 47:1, p. 8-21, illus.) **Title tr.:** "The desert demon."

Contains discussion of aridity phenomena: the drying processes in hot-dry and cold-dry climates, known in the literature as "the desert demon." Author discusses effects of hot-dry climate in various parts of the world on vegetation, human cultures; effects of cold-dry climate in Canada and Finland on swamps and vegetation, remarks on "palsa" (jättiläismättäät) or frozen peat mounds, as relatively young and occurring in sedge swamps; steppe and tundra regions; relation of migration of races to drying-up process in former habitats. Summary in German.

**Copy seen:** DLC.

**20352. AUER, VÄINÖ, 1895-** Enontekiön suurmättäistä (palsoista). (Terra, 1924. 36:2-3, p. 149-54) **Title tr.:** The large frozen peat mounds (palsa) in Enontekis.

Contains data on the vegetative cover of permanently frozen peat mounds (palsa) in this district in Finnish Lapland; results of pollen studies; previous work on palsa, their locations, origin and development.

**Copy seen:** DLC.

**20353. AUER, VÄINÖ, 1895-** . Eräistä tärkeimmistä turvegeologisista tutkimustehtävistä. (Terra, 1923. 35:3-4, p. 168-71) *Title tr.:* The most important studies to be made in peat geology.

Author suggests problems and localities for investigation: pollen and swamp studies in the far North and determination of the time of arrival of certain tree species in their present far northern habitats. *Copy seen:* DLC.

**20354. AUER, VÄINÖ, 1895-** . Eräitä vastaisia tehtäviä suotutkimuksen alalla Suomessa. Helsinki, 1924. 55 p. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, v. 8, no. 2) *Title tr.:* Some future problems of peat bog study in Finland.

Contains an outline of research problems facing the students of Finnish peat bogs, preceded by an historical account of past research in the area. Discussion of types and regions of peat formations; possibilities of afforestation in these areas; drainage; experimental and climatological research; effects of freezing and thawing on peat formations; development of peat bogs, their expansion and contraction; ecology of peat bogs, their formation, stratigraphy and geology; pollen studies, especially in connection with the problem of the spreading of pine forests; the disappearance of lakes during recent geological times; coastal peat bogs and shore lines; importance of archeological finds for dating peat deposits; economic problems. Translation into German, p. 29-55. *Copy seen:* DLC.

**20355. AUER, VÄINÖ, 1895-** . Investigations of the ancient flora of Häme (Tavastland). Helsinki, 1925. 128 p., fold. map, tables, diags. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 9:8)

Results of an investigation of the Diatomaceae of this region (ca. 61° N.) included *Caloneis latiuscula* and *Epithemia hyndmannii*, stated (by Cleve) to be characteristic of the Arctic Ocean. Results of the study of a thousand megascopical specimens taken with a swamp drill are given. *Copy seen:* DLC.

**20356. AUER, VÄINÖ, 1895-** . Kasvistollisia havaintoja Pohjois-Suomesta II. (Societas pro fauna et flora fennica. Memoranda, 1937-38, pub. 1938. v. 14, p. 110-23) *Title tr.:* Floristic observations in northern Finland II.

Contains critical notes on about 125

flowering plants and vascular cryptogams collected by the author mostly in Kuusamo, northern Ostrobothnia (Rovaniemi) and Kemi region, Finnish Lapland; for the first part of this paper, see *Arctic Bibliography* No. 786.

*Copy seen:* DLC; MH-Z.

**20357. AUER, VÄINÖ, 1895-** . Maantieteellisten tekijäin merkityksestä maamme soiden esiintymisessä. (Terra, 1922. 34:4, p. 201-204) *Title tr.:* The influence of geographical factors on the development of the soil in Finland.

As swamps are the most important factor in the building and development of (peat) soil in Finland, the author describes natural factors affecting their development. On the same basis he suggests that biological and geological study of swamp development, growth, and opportunities for spreading, is the most important geographical problem in the country. Among other phenomena suggested for investigation is "palsa" or frozen peat mounds. He includes general data on swamps and swamp phenomena in northern Finland.

*Copy seen:* DLC.

**20358. AUER, VÄINÖ, 1895-** . *Phragmites communis* (L.) auf den Mooren von Kuusamo und Kuolajärvi. (Suomalainen eläin- ja kasvitieteellinen seura Vanamo. Julkaisuja, 1921. 1:9, p. 305-320, illus., diags.) *Title tr.:* *Phragmites communis* (L.) on the moors of Kuusamo and Kuolajärvi.

Contains descriptive notes on 12 localities where the ditch-reed occurs in moors (peat bogs); with discussion. Summary in Finnish.

*Copy seen:* DLC.

**20359. AUER, VÄINÖ, 1895-** . Piirteitä Keski-Pohjanmaan soistumistavoista. Helsinki, 1921. 71 p., illus., plate, sketch maps. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 3:4) *Title tr.:* Characteristics of swamp formation in central northern Finland.

Following a sketch of the land forms and swamps of this region (66° N. to 67° N. lat.), author discusses the spread and growth of marshes primarily in its forested sections: the geological factors involved; outflow of water from the swamp and its effect on enlargement of the areal; the spread of swamp over surrounding forested lands as its peat formations build up; declivity and composition of the swamp edges; vegetation and its role as indicator of swamp spreading;

the filling in by natural means (vegetation, etc.) of drainage outlets from marsh-lakes. In appendices (p. 60-71) occurrence of plant species in the various swamp areas studied is tabulated. Bibliography (10 items). Summary in German, p. 48-56. **Copy seen:** DLC.

**20360. AUER, VÄINÖ, 1895-** . Suomalaisen tutkijain kuolassa itäkarjalassa ja inkerissä suorittaman tutkimustyön merkityksestä. (Terra, 1942. 54:1-2, p. 15-20) **Title tr.:** The significance of the work by Finnish scientists in Kola, Eastern Karelia, and Ingermanland.

In his remarks on studies in the Kola area, author notes resemblance of problems encountered there (in geology, botany, biology, meteorology, and forestry) to those in Fennoscandia; notes also need for corresponding studies on the Russian side to further Fennoscandian investigations.

German version of this paper was published as *Über die Bedeutung der Forschungstätigkeit der finnischen Forschungen in Fennia*, 1942. 67:3, p. 131-36.

**Copy seen:** DLC.

**20361. AUER, VÄINÖ, 1895-** . Suomen asutuskususten talousalueista. (Terra, 1936. 48:3, p. 163-68) **Title tr.:** The economic areas of Finland's population centers.

**Contains** economic-geographic study of Finland including the northern part, with discussion of climate and natural features as controlling factors in economic development. Summary in German.

**Copy seen:** DLC.

**20362. AUER, VÄINÖ, 1895-** . Suotutkimuksia Kuusamon ja Kuolajärven vaara alueilta. Helsinki, 1922. 368, ii p., 83 text illus., 5 plates, 4 fold. Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 6) **Title tr.:** Studies of swamps in the "vaara" areas of Kuusamo and Kuolajärvi.

**Contains** survey of the forestation, other vegetation, geomorphology, and geology of the "vaara" (glaciated arctic hill) and fjeld areas in northern Finland, 66°-67° N. lat.; descriptions and profiles of the swamps in eight areas of special study; swamp vegetation, its dependence and effect on the peat; swamp complexes; types of swamp sod, their stratigraphy and methods of formation; stages in rotting of peat; classification of swamps on the basis of geological formation and peat types. Characterization of the main

swamp types; their vegetation and occurrence in the area under study. Morphological characteristics of the surface of swamps; declivity characteristics; forms that indicate a change of moisture content; spread of swamp in forest ground in the light of stratigraphy and present-day research. The gradual filling in (by vegetation, etc.) of drainage outlets from swamp-lakes; build-up of peat; effects of freezing. Development of swamps evolved from ancient lakes; development history as shown by pollen studies; general pattern of swamp development. Bibliography (129 items). Summary in German, p. 261-368.

**Copy seen:** DLC.

**20363. AUER, VÄINÖ, 1895-** . Tutkimuksia Lapin tulvamailta. Helsinki, 1921. 72, 6 p., tables, diagrs. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 4:4) **Title tr.:** Studies on the flood areas in Lapland.

**Contains** a geomorphological sketch of Kittilä parish in southern Finnish Lapland, the flood areas of Parva River, the Ounas-Aakenus River junction and Ounas River; discussion of the river's activity and its effect on the vegetation and soil, on the banks, channels and lakes, and on the hummocks; formation of swamps near flood areas; frozen peat mounds ("palsa"). Summary in German.

**Copy seen:** DLC.

**20364. AUER, VÄINÖ, 1895-** . Über die Einwanderung der Fichte in Finnland. Helsinki, 1928. 24 p., map, diagrs. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 13:3) **Title tr.:** On the immigration of spruce into Finland.

On the basis of data from 10 experimental areas, including Kuolajärvi (66°30' N.) and Enontekiö (68°30' N.), the time of the appearance of spruce in various areas of Finland is determined. Bibliography (20 items). Summary in Finnish.

**Copy seen:** DLC.

**20365. AUER, VÄINÖ, 1895-** . Über die Entstehung der Stränge auf den Torfmooren. Helsinki, 1920. vi, 145 p., illus., 7 plates, fold. map. (Acta forestalia fennica, 12:2) **Title tr.:** On the formation of strands on the peat bogs.

**Contains** an account of geographical distribution and kinds of peat bogs characterized by ground raised in folds, stripes or strands; ideas on the genesis of the strands; the role of drying, wetting and floods in their formation; the role

of regelation, floods of melted snow, gravitation, etc. **Copy seen:** DLC.

**20366. AUER, VÄINÖ, 1895-** . Untersuchungen über die Waldgrenzen und Torfböden in Lappland. Helsinki, 1927. 52 p., illus., 7 plates, maps (1 fold.), diags. (2 fold.). (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 12:4) **Title tr.:** Investigations on the forest limits and peat soils in Lapland.

**Contains** a summary of previous phytogeographic and related studies of Lapland. Data on the climatic, topographic, and soil factors involved in the occurrence of bogs or marshes; the forests on the basis of geological observations of peat and moraine; pollen studies of soils under water bodies and in general; "palsa" (p. 33-41, illus.). Paleogeographic survey outlining three distinct stages in the natural development of Lapland: (1) the period after the rapid melting of the inland ice 6-7000 years ago; (2) the ascendancy of pine forest; (3) the coming of spruce and accompanying regression of climate. Bibliographical footnotes. Fold. map and diagrams at end show northernmost limits of pine, spruce and of forests; the swamp areas investigated and their composition; the pine pollen count. Summary in Finnish, p. 47-52. **Copy seen:** DLC.

**20367. AUERBAKH, NIKOLAI KONSTANTINOVICH, 1892-1930.** Doistoricheskoe proshloe Prieniseiskogo kraia, 1. Kamennyi period. Krasnoyarsk, izd-vo Sredne-Sibirskogo gos. geographicheskogo ob-va, 1929. 17 p. (Biblioteka Prieniseiskogo kraevedä, no. 10) **Title tr.:** The prehistoric past of the Yenisey region, 1. The stone age.

**Contains** a detailed account of earlier studies in the area; an outline of the past climatic conditions and fauna. Then follow sections on the paleolithic and neolithic epochs in the Yenisey valley, with information on the size and course of the river; climate, flora and fauna; man, his occupation, tools, clothes, weapons, pottery, etc. Some far northern places like Dudinka are referred to. Bibliography (30 items).

**Copy seen:** DLC.

**20368. AULAMO, OSMO I.** Eräiden harjumaiden merkityksestä talouselämälle. (Terra, 1926. 38:4, p. 188-207, illus.) **Title tr.:** The effect of eskers on the economy of the areas where they occur.

**Contains** data on eskers from Kärkölä to the Kauka River in Lapland; their effect on agriculture and forestry, on road building; military topography.

**Copy seen:** DLC.

**20369. AURIVILLIUS, PER OLOF CHRISTOPHER, 1853-1928.** Anmärningar rörande några svenska Anthomyider. (Entomologisk tidskrift, 1900, pub. 1901. Årg. 21, häft. 3-4, p. 255-56) **Title tr.:** Notes on some Swedish Anthomyidea.

**Contains** taxonomic notes on 14 species of Anthomyidea, including *Aricia marmorata*, *A. steini* and *A. setigera*, flies native to Swedish Lapland.

**Copy seen:** MH-Z.

**20370. AURIVILLIUS, PER OLOF CHRISTOPHER, 1853-1928.** Anmärningar rörande några svenska gräfsteklar. (Entomologisk tidskrift, 1886. Årg. 7, häft. 3-4, p. 161-69, 203 illus.) **Title tr.:** Remarks on some burrowing hymenopters of Sweden.

**Contains** Latin diagnoses of six hymenopters of the families Sapygidae and Pompilidae, including *Sapyga similis* and *Pompilus concinnus*, sapygids and spider wasps native to Swedish Lapland. Summary in French. **Copy seen:** MH-Z.

**20371. AURIVILLIUS, PER OLOF CHRISTOPHER, 1853-1928.** Cerambycider från Kamtschatka (Entom. Ergeb. der schwedischen Kamtschatka-Exped. 1920-1922, no. 17a) insamlade av R. Malaise. (Entomologisk tidskrift, 1928. Årg. 49, häft. 1, p. 41-44, illus.) **Title tr.:** Cerambycidae from Kamchatka (Entomological results of Swedish Kamchatka Expedition of 1920-1922, no. 17a) collected by R. Malaise.

**Contains** the Latin diagnosis of the beetle *Leiopus malaisei* n. sp., a comparison with some related species and descriptive notes on eight other species of Cerambycidae collected by R. Malaise in the Petropavlovsk region of Kamchatka Peninsula, during the Swedish Kamchatka Expedition, 1920-22.

**Copy seen:** MH-Z.

**20372. AURIVILLIUS, PER OLOF CHRISTOPHER, 1853-1928.** Svensk insektfauna, 2. Rätvingar. (Entomologisk tidskrift, 1900, pub. 1901. Årg. 21, häft. 3-4, p. 233-54) **Title tr.:** Swedish insect fauna, 2. Orthoptera.

**Contains** a taxonomic study of five families of the order Orthoptera with

synopses of the families, genera and species, critical notes and descriptions of 41 species, including at least 13 native to Swedish Lapland.

**Copy seen:** MH-Z.

**20373. AURIVILLIUS, PER OLOF CHRISTOPHER, 1853-1928.** Svensk insektfauna, 13. Steklar, I. Gaddsteklar: Fam. 1. Bin; 2. Rofsteklar; 3-6, Getingar-Planktsteklar; 7, Vågsteklar; 8, Myror. (Entomologisk tidskrift, 1903, Årg. 24, häft. 2-3, p. 129-218, illus., (2) 1904, Årg. 25, häft. 4, p. 241-300, illus.; (3-6) 1905, Årg. 26, häft. 4, p. 209-240, illus.; (7) 1907, Årg. 28, häft 1, p. 1-30, illus., (8) 1908, Årg. 29, häft 1, p. 1-36, illus.) **Title tr.:** Swedish insect fauna, 13. Hymenoptera, I. Aculeata: Fam. 1. Apiidae; 2, Sphegidae; 3-6, Vespidae-Sapygidae; 7, Pompilidae; 8, Formicidae.

**Contains** a taxonomic treatment of the order Hymenoptera, suborder Aculeata, families 1-8, with the keys to the families, subfamilies, genera and species, synopses, and descriptions of all known species (male and female), dimensions and data on distribution. Includes many species native to the northern regions of Sweden. Apparently a preliminary reprint from *Svensk insektfauna* compiled by various specialists.

**Copy seen:** MH-Z.

**AUS, M. C., see Kark, R. M., & others.** Observ. mobile arctic force. Health. 1948. No. 23138.

**20374. AUSTEN, M.** Polarnoje. (Geographischer Anzeiger, Jan.-Feb. 1944. Jahrg. 45, p. 8-10) **Title tr.:** Polyarnny. Analysis of the strategic significance for the Soviet Union and adjacent countries, of the locality in Yekaterinskaya Gavan' on the west side of Kola Inlet on the Murman coast, now called Polyarnny. The plan for using it as a naval base is discussed.

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**20375. AUSTIN, OLIVER LUTHER, 1903- , and F. WILKE.** Japanese fur sealing. Washington, 1950. 91 [i. e. 89] p. (incl. front cover), illus., incl. 3 maps. (U. S. Fish and Wildlife Service. Special scientific report: Wildlife. No. 6) mimeographed.

"This report is a republication of Report no. 129 issued by the Natural Resources Section, General Headquarters, Supreme Commander for the Allied Powers, Tokyo, July 1950." Based on field investigations in 1948-49, it con-

cerns mainly the distribution, abundance, and ecology of the fur seal in Japanese waters where the Japanese since 1941 have not observed the 1911 treaty for the protection of fur seals, now threatened by poaching. Included in the history of Japanese sealing 1860-1941 are data and remarks on the Commander and Pribilof Islands sealing. Bibliography (301 items annotated).

**Copy seen:** DI.

**20376. AVERINTSEV, S. O** *Pleuronectes platessa* L. Barentsova moria. Murmansk, 1929. 7 p. (Leningradskoe obshchestvo estestvoispytatelei. Murmanskaja biologicheskaja stantsiia. Raboty, t. 3, no. 6) **Title tr.:** On *Pleuronectes platessa* L. of Barents Sea.

**Contains** a morphometric study of plaice collected in 1927 and 1928 by the schooner *Poliarnnâ Zvezda* from various localities of Barents Sea (Kola, Ura, and Teriberka Bays). Males and females are analysed separately.

**Copy seen:** DLC.

**20377. AVERINTSEV, S.** Paltus i ego promysel. (Büfleten' rybnogo khozâistva, 1940, no. 5, p. 21-23) **Title tr.:** Halibut and its fishery.

**Contains** a general account of the catches of this fish in the circumpolar countries of both the eastern and western hemisphere. Data on types of boats and fishing gear, as well as some of a biological nature, are supplied.

**Copy seen:** DLC.

**AVOTIN, P. G., see Gorânskiĭ, Iŭ. V., & P. G. Avotin.** Teoriia i ustroĭstvo morskikh sudov. 1948. No. 22173.

**AVRORIN, NIKOLAI ALEKSANDROVICH, 1906- , see Akademiia nauk SSSR.** Khibinskaja gornaja stantsiia. Khibinskaja gornaja stantsiia. 1934. No. 20100.

**20378. AVRORIN, V. A., and I. I. KOZ'-MINSKIĬ.** Predstavleniia orochel o vsennoi, o pereselenii dush i puteshestviakh shamanov, izobrazhennye na "karte". (Akademiia nauk SSSR. Muzel antropologii i etnografii. Sbornik, 1949. t. 11, p. 324-34, 2 fold. plates) **Title tr.:** Orochis' ideas on the universe, transmigration of the soul, and travels of shamans, pictured on a "map."

**Contains** a "map" drawn by the Orochi shaman, Savelii Khutunk, and his two helpers (all from Chepsarov Island)

depicting the journey of a dead man's soul to the other world, his route and his encounters by the way. Authors remark on the belief that formerly there existed shamans powerful enough to go to the other world and return. An introductory note is given on the Orochian Ethnographical Expedition in 1929 (organized by the Muzel antropologii i étnografii and led by L. Ä. Shternberg) which investigated the Orochis, (numbering in all only 500) on the Rivers Khadi and Tumnin. The "map" was one of the results of this expedition.

**Copy seen:** DLC.

**20379. \*AXELSON, WALTER MIKAEL, 1876-** . Beiträge zur Kenntniss der Collembolen-Fauna Sibiriens. Helsingfors, 1903. 13 p. illus. plate. (Finska vetenskaps-societeten. Oversigt af förhandlingar, 1902-1903. Bd. 45, no. 20)

**Title tr.:** Contributions to the knowledge of the Collembola fauna of Siberia.

Contains a description of 17 species of these primitive insects (springtails and others). They were collected along the Lena, on Cajander and Poppius' natural history trip in the Lena valley in 1901.

**Copy seen:** DLC.

\*Later known as Walter Mikael Linnanemi, q. v.

**20380. AXELSON, WALTER MIKAEL, 1876-** . Einige neue Collembolen aus Finnland. (Zoologischer Anzeiger, 1905. Bd. 28, no. 24-25, p. 788-94)

Contains diagnoses of seven new species and 17 new varieties of springtails (Collembola) of Finland including *Aehorutes frigidus* and *Isotoma borealis* n. spp. native to Finnish Lapland and at least two new varieties from the same region; some species are described as from "north Finland".

**Copy seen:** MH-Z.

**AYTON, MAUREE W.,** see Shea, J. E., & M. W. Ayton. Cold weather operation Diesel. 1952. No. 26095.

**20381. B., E.** Vtoroi besposadochnyi perelet Moskva-Severnii polius - Soedinennye Shtaty Severnoi Ameriki na samolete "PS-25". (Problemy Arktiki, 1937, no. 4, p. 54-55, port.) **Title tr.:** Second non-stop flight Moscow-North Pole-United States of America on the airplane "P-25".

Contains a short account of the flight, July 12-14, 1937, of Gromov, Ūmashev, and Danilin on the plane NO-25-I, landing near Los Angeles. Summary in English.

**Copy seen:** DLC.

**20382. BABERO, BERT B., and R. L. RAUSCH.** Notes on some trematodes parasitic in Alaskan Canidae. (Helminthological Society of Washington. Proceedings, Jan. 1952. v. 19, no. 1, p. 15-17, illus.)

Contains a note on investigations made for the past two years in which 520 canids were autopsied. Four species of trematode worms were recorded, one of them *Plagiorchis? massino*, Petrov and Tikhonov, 1927, for the first time in North America. Bibliography (8 items).

**Copy seen:** DA.

**BABINEAU, LOUIS-MARIE,** see Pagé, E., & L.-M. Babineau. Effects high fat diets & cold ascorbic acid content. 1950. No. 24935.

**20383. BABKOV, V. F., and others.** Gruntovedenie i mekhanika gruntov. Dopushcheno v kachestve uchebnika dlia spetsial'nostei "Avtomagistrali i gorodskie dorogi" i "Mosty i tonneli" avtomobil'no-dorozhnykh vuzov i fakul'tetov. Izd. 2. Pod obshchei red. A. V. Gerburta-Gelbovicha. Moskva, Izd-vo dorozhno-tekh. lit-ry, 1950. 334 p., illus., ports., fold. map. **Other authors:** I. I. Bykovskii, A. V. Gerburta-Gelbovich, and A. Ä. Tulaev. **Title tr.:** Ground management and ground mechanics. Authorized by the University of Higher Education of the U.S.S.R. as a textbook for the specialization in "Highway and Street" and "Bridges and tunnels" in automobile and road colleges and faculties. Second edition under the editorship of A. V. Gerburta-Gelbovich.

Contains (in this scientific engineering treatise) sections on the origin of ground, its physical nature; ground works (excavations, etc.) in engineering construction; description of the soils of U.S.S.R. and methods used in their field and laboratory investigation; artificial change of the properties of the ground. In addition to scattered references as to conditions of extreme cold, the monograph contains the following sections relevant to arctic studies: the effect of hydrological and thermal régimes on the stability of earth road-(rail)-ways (p. 208-223); structural properties of frozen ground (p. 227-35); soil types of the U.S.S.R. (p. 237-59); regulating the moisture and thermal régime of soils) p. 323-29). Bibliography (11 items).

**Copy seen:** DLC.

**20384. BACHMANN, ELIZABETH.** Little white terror. (Frontiers, April 1951. v. 15, no. 4, p. 103-104, 182, illus.)

*Contains a note on weasels, including the arctic weasel, and their color and color changes in the winter. Food, killing habits, sexual differences, related fur-bearers, fur value, etc., are discussed.*

**Copy seen:** DLC.

**20385. BACK, E. H.** Medical aspects of a wartime Antarctic expedition 1944-1946, Operation Tabarin. (Royal naval medical service journal, 1947. v. 33, p. 193-97)

*Contains account of the voyage and location of bases, etc.; medical equipment, food, sanitation, general health. Conclusions: "taking all factors into consideration it is apparent that two years is the maximum that any man should spend in the Antarctic at one time."*

**Copy seen:** DSG.

**BACK, Sir GEORGE, 1796-1878, see King, R.** Temperature des animaux. 1836. No. 23255.

**20386. BACKBERG, ADOLF.** Rautatierakennussuunnitelmat ja ratasuuntien rautatietaloudellinen kannattavuus. (Teknillinen aikakauslehti, 1925. 15:10, p. 469-87, tables, map) **Title tr.:** Possible future railroads and the ability of the areas concerned to support them financially.

*Contains data on the railroads in Finland including the line to Kemijärvi, 66°44' N. 27°25' E. and (mainly) the economy of the areas served.*

**Copy seen:** DLC.

**20387. BACKER, DERMOT O'S.** Cracked ice. (Forest and outdoors, Mar. 1948. v. 44, no. 3, p. 32-33)

*Contains an account of the ice-breaker N. B. McLean, built of steel and cement (3,300 tons); its working area (Hudson Bay in summer season, St. Lawrence River in winter); its crew.*

**Copy seen:** DA.

**20388. BACKLUND, HELGE O.** Oligochaeta, Lumbricida. (In: Brinck, P. S. V., and K. G. Wingstrand, *Mountain fauna of Virihaure*, 1949-51, pt. 2, p. 161)

*Contains descriptions of two earthworms, *Dendrobaena octaedra* and *D. subrubicunda* collected in the Virihaure area of Lule Lappmark, northern Sweden, with data on habitat and total distribution.*

**Copy seen:** MH-Z.

**20389. BACKLUND, HELGE O.** Wrack fauna of Sweden and Finland; ecology and chorology. Lund, 1945. 236 p.,

illus., text map. (Opuscula entomologica. Supplementum 5)

*Contains the results of the study of insect population of wrack beds on the seacoast of Sweden and Finland and ecological factors influencing the population and formation of certain insect communities; with data on wrack beds and their zoocoenoses, qualities of biotopes, classification of the wrack animals according to their food requirements, spreading ecology, the influence of regional factors, sociological character of the wrack bed population, finding places and short ecological notes on each species, p. 187-226, and a bibliography (153 items); partly based on material from the Petsamo region, northern Finland.*

**Copy seen:** MH-Z.

**20390. BACKLUND, OSKAR, 1846-1916.** Anteckningar från tvenne resor i norra Ryssland, verkställda åren 1889 och 1890 för astronomiska ortsbestämmingar. Helsingfors, 1892. 34 p., 2 fold. maps. (Fennia 5:6) **Title tr.:** Notes from two trips to northern Russia, made in 1889 and 1890 for astronomical determination of positions.

*The trips and work were done as part of a five-man expedition headed by the geologist F. N. Chernyshev to make geological studies of Timanskiy Kryazh, Backlund participating to make determinations of points. The area (between the Mezen, northern Pechora Rivers and Barents Sea) is described in pt. 1-2 following the itinerary; pt. 3 (p. 26-34) contains an account of Backlund's own work methods and determination of 32 points.*

**Copy seen:** DLC.

**20391. BACKMAN, HAROLD.** Vanhoja ja uusia maantiesiltoja Pohjanmaalla. (Teknillinen aikakauslehti, 1929. v. 19, no. 12, p. 772-79, illus.) **Title tr.:** Old and new bridges in northern Finland.

*Contains brief descriptive data on repair and upkeep of various kinds of bridges in an area which extends into the far North.*

**Copy seen:** DLC.

**20392. BADER, HENRI, 1907- , and others.** Preliminary investigations of some physical properties of snow: final report. Minneapolis, Minn., June 1951. 62 p. incl. illus., tables, graphs, diagraphs. (SIPRE Report no. 7, Minnesota University, Engineering Experiment Station. Contract nos. DA-21-081-ENG-200 and DA-21-018-ENG-

201) *Other authors:* B. Lyle Hansen, Jerome A. Davis, and Marvin A. Sandgren.

"The triaxial behavior of snow is discussed on the basis of an analysis of the velocities of deformation and stresses. Special cases are presented and the shear strength-normal stress diagram is calculated from triaxial data. High speed compactor data are interpreted as a function of height and time. An equation for the determination of tensile strength of snow by a centripetal force apparatus is given. Calorimeter theory and X-ray density scanning of snow are discussed. Preliminary experimental results of the determination of the cross-section number, specific velocities of uniaxial compression, tensile and shear strength, and use of cone and disk penetrometers are presented. A description of instruments used, with specifications and part numbers, is given. Included are hydraulic press, triaxial apparatus, disaggregator, penetrometer, and high speed compactor. Assembly drawings and wiring diagrams are appended."—SIPRE.

*Copy seen:* CaMAI; DLC.

**20393. BADER, HENRI, 1907-** . The significance of air bubbles in glacier ice. (*Journal of glaciology*, Oct. 1950. v. 1, p. 443-51, diags.)

On the basis of research with Project Snow Cornice in 1949, at a camp on the old, coarse-grained ice near the foot of Malaspina Glacier, Alaska (about 59°43' N. 140°25' W.), description is given of shapes of cavities containing water and air bubbles, which were "found to reflect the anisotropism of ice crystals and reveal that the main crystallographic axis is polar." Such a study "can give valuable information on the evolution of the ice."

"Analyses of the air pressure in the bubble and of the volumetric relation of the air and the water in the bubble indicate the possibility of determining the maximum depth from which the ice has emerged. The air bubbles examined were in the range of 0.1 to 1.0 mm. diameter. Water bags containing the air bubbles are never spherical. They were predominantly rotational bodies showing the anisotropic nature of the ice crystals. It is suggested that air bubbles remain indefinitely in the glacier ice unless they are eliminated from the névé."—SIPRE.

*Copy seen:* DGS; DSI-M.

**BADER, HENRI, 1907-** , see also Minnesota. University. Institute of Technol-

ogy. Review properties snow & ice. 1951. No. 24376.

**20394. BADER, MORTIMER E., and J. MEAD.** Individual differences in vascular responses and their relationship to cold tolerance. (*Journal of applied physiology*, May 1950. v. 2, p. 608-618, diags.)

Work of the U. S. Dept. of the Army, Quartermaster Climatic Research Laboratory and the Medical Dept. U. S. Army, carried out "with the technical assistance of M. E. Pillion" at Fort Churchill, Manitoba, 1948-49, on 24 men. "Correlation between digital vascular response and cold tolerance was demonstrated" . . . but "cannot be regarded as a specific indication of [a man's] performance under cold stress. None of the remaining physiological indices in which consistent variation among individuals was demonstrated showed any marked relationship with cold tolerance. Men studied before and after a field bivouac under cold stress experienced less pain and had smaller blood pressure rises during immersion of the feet in ice water after bivouac."

*Copy seen:* DLC.

**20395. BADER, RICHARD ARTHUR, 1922-** , and others. Hormonal alterations in men exposed to heat and cold stress. (*American journal of physiology*, Dec. 1948. v. 155, p. 425) *Other authors:* H. J. Stein, J. W. Eliot, and D. E. Bass.

Contains a brief report of a study of three men subjected to intermittent exposures to heat and cold (-20° F.). The number of circulating eosinophils was reduced by a combination of cold and exercise. Heat and cold stresses apparently did not deplete the adrenal cortical reserve as measured by ACTH. No significant changes were found during any of the stress periods in urinary uric acid-creatinine ratio, urinary 17-ketosteroid excretion, absolute lymphocyte counts, and basal metabolism.

*Copy seen:* DLC.

**20396. BADER, RICHARD ARTHUR, 1922-** , and others. Hormonal and renal mechanisms of cold diuresis. Lawrence, Mass., May 1950. iv, 17 p., diags. (U. S. Quartermaster Climatic Research Laboratory; Environmental Protection Section, Report no. 166) *Other authors:* Johan W. Eliot and David E. Bass.

Contains report on experiments made on nude, reclining men alternately ex-

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posed to warm (80°-85° F.) and cool (60° F.) ambient temperatures, with their urine collected at regular intervals. The effects of erect posture, exercise, and an extract of pitressin on urine flow, were also studied. Measurements of kidney function, and rate of chloride excretion were made during the alternate exposures. The results indicate that cold diuresis is accomplished by diminished reabsorption of water in the kidney tubulus, and that this may be the result of a reduced secretion of the anti-diuretic hormone of the posterior lobe of the pituitary. Other aspects and similarities with water diuresis are also discussed. Bibliography (30 items). **Copy seen:** DSG.

**20397. BADER, RICHARD ARTHUR, 1922-**, and others. Hormonal and renal mechanisms of cold diuresis. (Journal of applied physiology, 1952. v. 4, no. 8, p. 649-58, 6 fig.) Other authors: Johan W. Eliot, and David E. Bass.

Contains a study on nine nude, recumbent males, exposed to an environmental temperature of 60°F. A fall in urine specific gravity, an increase in urinary chloride excretion, diminution of renal tubular reabsorption of water, inhibition by erect posture, exercise, and by extremely small doses of pitressin, were observed. The similarity with water diuresis and the possible function of the pituitary are discussed. Bibliography (28 items). **Copy seen:** DLC.

**20398. BADER, RICHARD ARTHUR, 1922-**, and others. Renal and hormonal mechanisms of cold diuresis. (Federation proceedings, Mar. 1949. v. 8, p. 7) Other authors: J. W. Eliot and D. E. Bass.

Contains an abstract of a study with unclothed men exposed to air temperature of 15° C., and compared with such covered by blankets and kept at 24°-27° C. Degree of cold diuresis, specific gravity, chloride concentrate and volume of urine, chloride and water reabsorption, the effects of pitressin, etc., were studied. **Copy seen:** DLC.

**BADER, RICHARD ARTHUR, 1922-**, see also Eliot, J. W., & others. Cross-acclimatization to heat & cold. 1948. No. 21639.

**BADER, RICHARD ARTHUR, 1922-**, see also Stein, H. J., & others. Hormonal alterations in men heat & cold stress. 1949. No. 26415.

**BADER, RICHARD ARTHUR, 1922-**, see also Stein, H. J., & others. Physiological reactions to cold. 1949. No. 26416.

**20399. BADIGIN, KONSTANTIN SERGEEVICH.** Put' na Grumant. (Vokrug sveta, Jan. 1952, p. 54-59; Feb. 1952, p. 53-58, illus. map) **Title tr.:** Voyage to Grumant.

Contains a chapter from an historical novel on the early Russian life on West Spitsbergen (Russian: Grumant). A voyage in August 1468, from the Russian mainland to Grumant, headed by the Starostin brothers, who at that time owned much of the sealing industry, is described. **Copy seen:** DLC.

**20400. BADIGIN, KONSTANTIN SERGEEVICH.** Tri zimovki vo l'dakh Arktiki; zapiski kapitana o 27-mesachnom dreffe ledokol'nogo parokhoda "Georgii Sedov" v Severnom Ledovitom okeane (1937-1940 gg.) Nauchnaya redaktsiya prof. N. N. Zubova. Moskva "Molodaya gvardiya," 1950. 544 p., illus., plates, diagrs., maps. **Title tr.:** Three winterings in the ice of the Arctic; captain's notes of the 27-month drift of the icebreaker *Georgii Sedov* in the Arctic Ocean (1937-1940.) N. N. Zubov scientific editor.

A considerably shortened, simplified and popularized edition of author's "Na korable Georgii Sedov" (see *Arctic Bibliography* No. 903). Most photographs, scientific records, illustrations and maps have been omitted, but a glossary of technical or uncommon words has been added.

**Copy seen:** DLC; MH.

**BADIGIN, KONSTANTIN SERGEEVICH,** see also Zubov, N. N., & K. S. Badigin. Razgadka tajny Zemli Andreeva. 1952. No. 27624.

**20401. BÄNNINGER, M.** Die Gattung *Pelophila* Dej. (Col. Carab.) (Notulae entomologicae, 1930, v. 10, no. 3, p. 95-102) **Title tr.:** The genus *Pelophila* Dej. (Col. Carab.).

Contains a critical revision of these ground beetles, with a key to some species and critical notes on 15 species, including at least nine occurring in Labrador, Hudson Bay region, Alaska, Aleutian Islands, Kamchatka and Taymyr Peninsula (Krasnoyarskiy Kray).

**Copy seen:** MH-Z.

**20402. BÄNNINGER, M.** Versuch einer Bestimmungstabelle der zentral- und

ostasiatischen *Nebria*-Arten ohne gelbe Flügeldecken-Zeichnung, nebst Bemerkungen über einige andere Formen (6. Beitrag zur Kenntnis der Carabinae). (Koleopterologische Rundschau, 1922-23, pub. 1923. Bd. 10, nr. 4, 129-42) **Title tr:** A tentative table for the determination of Central and East Asiatic *Nebria* species without yellow marks on the forewings, with notes on some other forms (6th contribution to knowledge of Carabinae).

Contains a key to the species of coleopterous genus *Nebria* native to Central and Eastern Asia, including at least eight species, occurring in northern Siberia, Kamchatka, northern Scandinavia and Alaska. **Copy seen:** MH-Z.

**BAGADKINA, Z. G.,** see Poslavskii, E. V., & A. G. Bagadkina. Ostryi giper-vitaminoz A. 1948. No. 25261.

**20403. BAGARIĀTSKIĬ, B. A.** Polĭarnye siĭaniĭa. (Nauka i zhizn', Apr. 1952. 19 god, no. 4, p. 47-48, illus.) **Title tr:** Polar lights.

Contains a popular account of auroras, their distribution; connection with earth magnetism and solar activity, specifically the solar emission of hydrogen and calcium ions, and the assumed way of light effects.

**Copy seen:** DLC.

**20404. BAGARIĀTSKIĬ, B. A., and M. I. MORDUKHOVICH.** Spektry polĭarnykh siĭaniĭ v infrakrasnoi oblasti. (Akademiĭa nauk SSSR. Doklady, 1952. t. 82, no. 1, p. 45-47, diagr.) **Title tr:** Spectra of auroras in the infrared range.

Contains an analysis of several spectra of auroras within the infrared range. The photograms and observations were made "in the North" during March 1951. Bibliography (7 items).

**Copy seen:** DLC.

**20405. BAGARIĀTSKIĬ, V. I., and others.** K voprosu ob infrakrasnom izluchenii nochnogo neba i polĭarnykh siĭaniĭ. (Akademiĭa nauk SSSR. Doklady, 1952. t. 82, no. 4, p. 579-80, table) **Other authors:** V. I. Krasovskii and M. I. Mordukhovich. **Title tr:** On the problem of infrared radiation of the night sky and auroras.

"During March, 1951, four spectra were obtained of the aurora in the 8000-11,000 Å (near infrared bands) and one of the night sky light in the absence of an aurora. Results of line intensity

measurements of the spectrophotographs are tabulated (for 7800, 8400, 8700, 9200 and 10,100 Å). It was noted that, although little regional or time variation was found, there was a marked diminution of intensity in the infrared of the night sky during auroral displays. Later (mid-August, 1950) it was found there was an almost total absence of night sky radiation (8-1.1 μ) at Simeiz (Crimea) during a period of extreme auroral activity (Aug. 18-20), 195 auroras observed all over the Northern Hemisphere)."—*Meteorological abstracts and bibliography*, Oct. 1952. v. 3, no. 10, p. 1038.

**Copy seen:** DLC.

**20406. BAGROV, L.** The Vitus Bering first voyage maps. (Geografisk tidskrift, 1948-49, pub. 1950. Bd. 49, p. 32-40, port.)

"Russian manuscript translated into English by Chr. Hellstern-Nielsen," giving a brief account of events leading to Peter the Great's choice of Bering as leader of the Great Northern Expedition, loss of the expedition's two qualified geodesists; discussion of the maps for the area from Tobolsk to Kamchatka and their subsequent history; with bibliographic footnotes (14 items).

**Copy seen:** DGS.

**20407. BAILEY, ALFRED MARSHALL, 1894-** An unusual migration of the spotted and ribbon seals. (Journal of mammalogy, Aug. 1928. v. 9, p. 250-51)

An Eskimo of Cape Prince of Wales on Bering Strait reported to the author a migration southward and overland, of *Phoca richardii pribolofensis*, the common spotted seal, and *P. fasciata*, the rare ribbon seal, which had been frozen into lagoons and were trying to cross Potato Mts. to reach the sea.

**Copy seen:** DSI-M.

**20408. BAILEY, BASIL E., and others.** Marine oils with particular reference to those of Canada. Ottawa, Kings Printer, 1952. xiii, 413 p. (Canada. Fisheries Research Board. Bulletin 89) Revised from Bulletin 59 with editorial assistance of N. M. Carter and L. A. Swain.

Basic work on composition, chemical and physical properties, production, refining and processing, commercial utilization, significance of analytical values, specifications of various countries. Chap. 10 (p. 312-58) deals with properties of some Canadian marine oils including

those from cod, shark, whales, seals. Bibliographies at ends of chapters.

**Copy seen:** CaMAI.

**20409. BAILEY, S. J.** Health patrol in the Eastern Arctic. (Canada's health and welfare, 1949. v. 4, no. 4, p. 4-5, 8 illus.)

Contains an outline of the disposition and itineraries of the Eastern Arctic Patrol following the loss in 1947 of the *Nascopie*. A detailed itinerary of the author's trip in 1948 on the *Regina Polaris* into Hudson Bay is given, with notes on the Eskimos' general health, infant mortality, food, etc.

**Copy seen:** DSG.

**20410. BAILEY, S. J.** Sam Ford. (Arctic circular, Sept. 1950. v. 3, p. 36-37)

Obituary of "Canada's most outstanding Eskimo linguist", who drowned following a helicopter crash near Fort Chimo, Aug. 5, 1950.

**Copy seen:** CaMAI.

**20411. BAIRD, PATRICK D.** Baffin Expedition 1950. (Canadian geographical journal, May 1951. v. 42, p. 212-23, illus., double map)

Narrative of the Baffin Island Expedition to the Clyde Inlet region (roughly the area  $69^{\circ}30'-70^{\circ}45'$  N.  $68^{\circ}-74^{\circ}$  W.); notes on preparation, the twenty members, air transportation, the camps, and the kind of research carried out during May-Aug., 1950. Map, scale 1:1,000,000, shows camps and position of the Barnes Ice Cap. **Copy seen:** DGS; DLC.

**20412. BAIRD, PATRICK D.** The Baffin Island Expedition, 1950. (Geographical journal, Sept. 1952. v. 118, p. 267-79, 2 plates, sketch map)

Contains a paper read before the Royal Geographical Society, Feb. 25, 1952, in which the expedition's leader describes its organization, program and general activities, mentioning some results of the biological, geologic and glaciological work; also discusses some problems in present-day expeditionary planning. Includes discussion, p. 277-79.

**Copy seen:** DGS.

**20413. BAIRD, PATRICK D., and others.** Baffin Island Expedition, 1950: a preliminary report. (Arctic, Dec. 1950. v. 3, p. 131-49, illus., double map)

Brief résumé by the leader, of the personnel, itinerary, camps, transportation and program of an expedition sponsored

by Arctic Institute of North America, Royal Canadian Air Force, Geological Survey of Canada, Swiss Foundation for Alpine Research and the Canadian Geographical Society, to the east coast of Baffin Island at Clyde settlement, May-Aug. 1950; with short "initial reports on progress" of the scientific studies:

Eade, K. E., and G. C. Riley. Geological reconnaissance.

KRANCK, E. H. Bedrock geology.

GOLDTHWAITE, R. P. Geomorphology.

WARD, W. H. Glaciology.

Orvig, S. Meteorology.

MONTGOMERY, M. R. Climate.

Dansereau, P. Ecological study of the vegetation.

Hale, M. E. Lichens.

New names (13) adopted by the Canadian Board on Geographical Names, shown on map, p. 132-33.

The reports by Kranck, Goldthwaite, Ward and Montgomery appear in this Bibliography under their respective author's names.

**Copy seen:** CaMAI; DLC.

**20414. BAIRD, PATRICK D.** Canadian expedition to Baffin Island, 1950. (Polar record, Jan. 1952. v. 6, no. 43, p. 372-75, illus., map)

Contains a brief report on the expedition May-Aug. 1950, composed of eight Canadian, three British, three Swiss, four American, one Norwegian and one Finnish member, led by P. D. Baird, glaciologist, and sponsored by the Arctic Institute of North America, Canadian institutions and the Swiss Foundation for Alpine Research. The expedition centered at Clyde (ca.  $70^{\circ}25'$  N.,  $68^{\circ}40'$  W.) and established glaciological, biological and mountaineer camps, interconnected by radio. Investigations included: glaciology of the Barnes Ice Cap (located at the center of the island); weather observations; biological survey of Clyde Inlet and surroundings; plant collecting; breeding of passerine birds; collecting of small mammals, birds, insects, and fresh-water organisms; mountaineering.

**Copy seen:** DLC.

**20415. BAIRD, PATRICK D.** The glaciological studies of the Baffin Island Expedition, 1950, part I. Method of nourishment of the Barnes Ice Cap. (Journal of glaciology, Mar. 1952. v. 2, no. 11, p. 2-9, illus., sketch maps)

Contains paper read at a meeting of the International Commission on Snow and

Ice, Brussels, 1951: an account of the methods and results of measurements made on accumulation and ablation of the Barnes Ice Cap  $69^{\circ}35'-70^{\circ}30' \text{ N. } 71^{\circ}50'-74^{\circ}30' \text{ W.}$  on Baffin Island in the summer of 1950; results indicate a balanced budget, without the occurrence of firn. "It is postulated that its nourishment is by superimposed ice due to immediate refreezing of much of the melt water of summer. It is further inferred that a similar process nourishes many arctic glaciers and ice caps where elevation, precipitation and temperature are all low. The name 'Baffin type' is proposed for these in the classification of glaciers."—Author's abstract. **Copy seen:** DLC.

**20416. BAIRD, PATRICK D., and D. J. SALT.** Report on expedition Snow Cornice. (National Research Council of Canada. Associate Committee on Soil and Snow Mechanics. Technical memorandum, no. 14. (Canadian papers presented at the Oslo meetings of the International Union of Geodesy and Geophysics, Aug. 1948, *pub.* Ottawa 1949) p. 1-13, incl. graphs, diagr.)

"The organization of the expedition is briefly outlined. General studies on the accumulation area of the Seward Glacier (approx.  $60^{\circ}16' \text{ N. } 140^{\circ}18' \text{ W.}$ ) included thermal borings to a depth of 204 ft. and firn density and meltwater observations to depths below 50 ft. Glacier thickness was measured by seismic, acoustical and radar soundings. No results were obtained after two weeks' work in the glacier outlet, due to the inadequacy of the equipment in penetrating the deep firn. Experiments were continued at the airstrip camp and dynamite charges released in the adjacent crevasses. Results obtained are discussed and time-distance curves presented. Ice and snow depth at the airstrip camp was  $1600 \pm 100 \text{ ft.}$  Recommendations for future work on ice fields are presented."—SIPRE.

**Copy seen:** CaMAI.

**BAIRD, PATRICK D.,** *see also* Field, W. O. Report NA. glaciers. 1951. No. 21786.

**20417. BAJKOV, ALEXANDER.** A preliminary report on the fishes of the Hudson Bay drainage system. (Canadian field-naturalist, Apr. 1928. v. 42, p. 96-99)

*Contains* notes characterizing the huge region covered by this drainage system, and remarking on the distinctly southern

element represented in the author's collection (made in 1926-27) of about one hundred species and sub-species of fish, here shown with Latin and common name. Bibliography (20 items).

**Copy seen:** DA.

**20418. BAKER, ALFRED.** Keeping qualities of frozen meat. (Alaska's health, 1949, v. 7, no. 9-10, p. 2)

*Contains* instructions as to: draining and aging; cutting, packing and freezing of meat of domestic and wild animals and birds.

**Copy seen:** DSG.

**20419. BAKER, B. H., and others.** Fossiliferous strata at Kapp Scania, Daudmannsøyra, Vest Spitsbergen. (Geological magazine, Sept.-Oct. 1952. v. 89, p. 303-304) *Other authors:* C. L. Forbes and M. F. W. Holland.

*Contains* a report on corals, brachiopods and fusulinids from Kapp Scania ( $78^{\circ}10' \text{ N. } 13^{\circ} \text{ E.}$ ) collected by the Birmingham University Expedition, 1948, and the Oxford and Cambridge Spitsbergen Expedition, 1951. The fauna indicates an upper middle or lower upper Carboniferous age for the beds. The terrain has heretofore been referred to the pre-Devonian Hecla Hook system.

**Copy seen:** DGS.

**20420. BAKER, DAVID.** Northwest deliveries. (Aviation, July 1943. v. 42, no. 7, p. 225-27, 374-78, illus.)

On the ferrying of military planes to Alaska and special training given pilots for flying into cold weather regions.

**Copy seen:** DLC.

**20421. BAKER, GEORGE H.** Arctic training at Camp Hale. (Military engineer, May-June 1950. v. 42, p. 204-205, illus.)

*Contains* brief report on training of Seabee reserves (U. S. Marine Corps construction battalions) in skiing and camping, Jan.-Mar., 1950, with note on clothing. "The utilization of the U. S. Army's Camp Hale by regular and reserve Seabee units of the Navy during the winter of 1949-50 is described. Some 650 reserves were given training in cold weather living, while the contingent of regulars tested equipment, structures and techniques, such as snow compactors, motor starting apparatus, lubricants and fuels."—SIPRE.

**Copy seen:** DGS; DLC.

**20422. BAKER, RALPH CURTIS, 1912-**  
Byproducts of the government-

operated Alaska fur-seal industry. Washington, 1950. 5 p. (U. S. Fish and Wildlife Service. Fishery leaflet 380) Mimeographed.

Contains detailed description of the reduction plant operation on St. Paul Island (Pribilof Islands) and its history during the period 1918-1949; with statistical data on production of meal (used in poultry feed) and blubber and carcass oil, with chemical analyses.

**Copied seen:** DI.

**20423. BAKER, ROLLIN HAROLD, 1916-** . Mammals taken along the Alaska Highway. (Kansas University, Lawrence. Museum of Natural History. Publications, 1951. v. 5, no. 9, p. 87-117, text map)

Contains a list of 57 species and subspecies of mammals obtained along Alaska Highway (Alaska, Yukon Territory, British Columbia and Alberta) in the summers of 1947 and 1948 by Mr. J. R. Alcorn, field representative of the University of Kansas Museum of Natural History, with a map (p. 90), a list of localities (p. 91), and an account of the species (p. 92-116) containing synonymy, lists of species examined, remarks and data on distribution. Includes diagnoses of *Microtus pennsylvanicus alcorni* and *M. p. tananaensis* new subspecies of voles.

**Copied seen:** DLC; MH-Z.

**20424. BAKER, THOMAS W.** Histamine in the treatment of cold allergy. (American Medical Association. Journal. Mar. 23, 1940. v. 114, p. 1059-61, 3 fig.)

Contains a report of two cases of cold allergy or hypersensitiveness to cold. A combined treatment by oral use of histamine and systemic desensitization proved successful. The use of histamine for allied conditions is suggested.

**Copied seen:** DLC.

**20425. BAKHRUSHIN, S. V.** Ostfâtskie i vogul'skie knâzhestva v XVI-XVII vekakh. Leningrad, 1935. 86, [3] p. illus., facsim., map. (Leningrad. Institut narodov Severa im. P. G. Smidovicha. Nauchno-issledovatel'skâi assotsiatsiâ. Izvestiâ, vyp. 3) **Title tr.:** Ostyak and Vogul principalities in XVI-XVIIth centuries.

Contains information (based on 16-17th century ms. records) on: the areas then occupied by these peoples (Ostyaks in the Ob' basin, Voguls in the Ural Mts.); their economic life: occupations, trade,

etc.; political, social and family structure; religion and idols; the principalities, their organization and history; relations with Moscow and the Muskovite tax levy (âsak), Russian penetration into the area. Bibliographical footnotes.

**Copied seen:** DLC.

**20426. BALANDIN, A.** Rybozagotovki na Sos've (iz dnevnika èkspeditsii). (Sovetskii sever, 1934, no. 5, p. 93-96) **Title tr.:** Fish processing on the Sos'va (from the diaries of the expedition).

Contains data on conditions prevailing in the native fishing industry in the Sos'va River region, Berezov district, Omsk province, and discussion of the prospect for the industry's development.

**Copied seen:** MH-P.

**20427. BALANDIN, D. A.** Biokhimiçeskâi kharakteristika naibolee perspektivnykh dlâ Primor'â sortov kartofelâ. (Akademiâ nauk SSSR. Dal'nevostochnyi filial. Vladivostok. Gornotaezhnâi stantsiâ. Trudy, 1946, t. 5, p. 159-67, illus., tables) **Title tr.:** Biochemical characteristics of potato-strains most promising in the Primorye.

Contains a report on selective work at the Mountain-Taiga Station (near Vladivostok) on potatoes most suitable for its climatic conditions, studies of importance for development of arctic and subarctic agriculture. The best strains are listed in order of their properties, nitrogen and starch content, dry residue, etc.; starch and water loss during winter storage, etc. Bibliography (10 items).

**Copied seen:** DLC.

**20428. BALCHEN, BERNT, 1899-** . Engineering problems in the Arctic. (Military engineer, Nov.-Dec. 1952. v. 44, p. 426-28, incl. illus.)

"Flights across polar regions involve no special problems except the need for ground installations. Arctic regions are defined as the areas in which the mean temperature of the warmest month is below 50° F. Engineering problems common to arctic construction projects are briefly described. Late summer and early fall are considered the best time for site surveys."—SIPRE.

**Copied seen:** DLC.

**BALCHIN, W. G. V.,** see Feyling-Hanssen, R. W. Changes of sea-level W. Spitsbergen. 1950. No. 21776.

**20429. BALDWIN, W. K. W.** Biological investigation on the 1949 Foxe Basin ex-

pedition. (Canada. National Museum. Bulletin 123, its Annual report for 1949-50, pub. 1951, p. 162-65)

*Contains* summary of biological work of the Geographical Bureau expedition under T. H. Manning in the *Nauja* in summer 1949, of which detailed accounts are in preparation. The itinerary is given: from Moosonee to islands in James Bay, by the east coast of Hudson Bay, Foxe Channel to Prince Charles Island, Air Force Island, thence to Baffin Island, other islands in Foxe Basin, Melville Peninsula, Wager Bay, Marble Island and Churchill—about 4000 miles. Observational work and collections are noted: about 240 specimens of mammals, 356 of birds, ectoparasites, and vascular plants representing 370 species.

*Copy seen:* DLC.

**20430. BALDWIN, W. K. W.** Botanical investigations on the east coast of Hudson and James Bays. (Canada. National Museum. Bulletin no. 113, its Annual report for 1947-48, pub. 1949, p. 31-32)

*Contains* brief summary of organization, purpose, itinerary and work carried out in the area between Rupert House and Port Harrison, by a botanical field party in the summer of 1947 under joint sponsorship of the National Museum of Canada and the Arctic Institute of North America.

*Copy seen:* DGS.

**20431. BALK, NORMAN, 1894-** Die Medizin der Lappen. Greifswald, Universitätsverlag Ratsbuchhandlung L. Bamberg, 1934. 64 p., map. (Deutsch-nordische Gesellschaft für Geschichte der Medizin, der Zahnheilkunde und der Naturwissenschaften, 11) *Title tr.:* Lappish medicine.

This study differs from Qvigstad's basic work (see *Arctic Bibliography*, No. 14041) in the interpretation and arrangement of the data, Balk finding aboriginal Mongol characteristics only in the oldest magic-cure methods, Qvigstad assuming a foreign origin for Lappish medicine as a whole. Balk treats the subject from viewpoint of the remedies and cure methods, rather than from that of the ailments and diseases. He deals with plant remedies, use of metals and animals in therapy and its magic aspects, manual or surgical treatment (to extract source of the ailment from the body), blood-letting, moxibustion (cauterization by means of moxa); Lappish theory of disease as sent by an enemy in the earth, water or air; necessity of using exorcism especially for diseases

originating in the earth (the dead); Lappish belief that each disease has a "spirit," its appearance in hallucinations. Author concludes that the older type of cures has northern Siberian associations, the more recent Finnish and German. Bibliography.

*Copy seen:* DSG; InU.

**20432. BALOGH, BENEDIKT BARÁ-TOSI.** Forschungsreisen. (Finnisch-ugrische Forschungen. Anzeiger, 1911. Bd. 11, no. 1-3, p. 30-31) *Title tr.:* Expeditions.

*Contains* account of trip to the Zyryans living on the Rivers Mezen' and Vashka, also a few Samoyed families at the mouth of the Rivers Nysh, Shanda, and Ki, in July-Aug. 1911. Linguistic material was collected (about 4000 words of Zyryan dialect from Izhma (65° N. 54° E.), and a list of Samoyed words) and ethnographic objects purchased at Ust'sysolsk. The work was sponsored by the Hungarian Committee of the International Middle and East Asiatic Society.

*Copy seen:* DLC; InU.

**20433. BALSS, HEINRICH, 1886-** Notiz über einige Pennatuliden des Zoologischen Museums der Kaiserlichen Akademie der Wissenschaften zu St. Petersburg. (Akademiiā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1911. t. 16, no. 1, p. 158-59) *Title tr.:* Notes on some pennatulids of the Zoological Museum of the Imperial Academy of Sciences of St. Petersburg.

*Contains* data on some interesting finds of four species of pennatulid polyps or sea-pens (Pennatulida), including *Umbellula eucrinus* collected in 1899 by the icebreaker *Ermak* in Greenland Sea (80°35' N. 7°19' E.) from a depth of 24 meters.

*Copy seen:* DLC; MH-Z.

**20434. BALTZO, CHARLES HOWARD, 1913-**, and D. W. ERICKSON. Fishery industries of Alaska and their administration. Washington, 1948. 8 p. (U. S. Fish and Wildlife Service. Fishery leaflet 322) Mimeographed.

*Contains* brief résumé of the types of fishing and notes on biology and industrial development of each species, including five species of salmon, halibut, herring, sablefish, two kinds of clams, shrimp, crab and fur seals; mention of latent fisheries, and a history of government administration.

*Copy seen:* DI.

**20435. BALYS, JONAS, 1909-** Finno-Ugric peoples. (In: Funk & Wagnall's

Standard dictionary of folklore, mythology and legend, 1949, v. 1, p. 387)

*Contains* a general description of these peoples, their names, historical relationship and later dissemination.

*Copy seen:* DLC; InU.

**20436. BALYS, JONAS, 1909-** . Lapp mythology. (*In:* Funk & Wagnall's Standard dictionary of folklore, mythology and legend, 1950, v. 2, p. 604)

*Contains* account of the gods, sacrifices, shamanism and sagas.

*Copy seen:* DLC; InU.

**20437. BALYS, JONAS, 1909-** . Samoyeds. (*In:* Funk & Wagnall's Standard dictionary of folklore, mythology and legend, 1950, v. 2, p. 969)

*Contains* a popular description and short notes on the traditional poetry and religious beliefs.

*Copy seen:* DLC; InU.

**20438. BANDI, HANS GEORG.** Als Arheäologe in Nordostgrönland. (*Polarforschung*, 1948, pub. 1950. Bd. 2, Jahrg. 18, p. 38-39, i. e. p. 234-35) *Title tr.:* Archeologist in northeast Greenland.

*Contains* notes on the stone age culture of northeastern Greenland, and its evidences observed there; with brief remarks on Dead Mans Bay (Dødemandsbugten), Clavering Island.

*Copy seen:* DGS.

**20439. BANDI, HANS GEORG and JÖRGEN MELDGAARD.** Archaeological investigations on Clavering Ø, northeast Greenland . . . With an anthropological appendix by R. Ray and J. Balslev Jørgensen. København, C. A. Reitzel, 1952. 85 p. illus., sketch map. (*Meddelelser om Grønland*. Bd. 126, no. 4)

*Contains* an account of house ruins, artifacts, stone rings, play houses and graves studied in 1948 when the author participated in the Dansk Pearylandekspedition 1947-1950, under Eigil Knuth. The excavations were made at Dødemandsbugten, Cape Mary and Cape Arnakke, on Clavering Island, East Greenland; the materials represent the Earliest and the Mixed (northeast Greenland) Cultures. The appendix contains descriptions of human skeletal remains from the graves. Bibliography (23 items).

*Copy seen:* DGS.

**20440. BANFIELD, ALEXANDER WILLIAM FRANCIS, 1918-** . The barren-ground caribou. Ottawa, Dept. of Re-

sources and Development, 1951. vi, 52 p. 32 illus. incl. 8 maps, diagrs. Mimeographed.

*Contains* final report (for preliminary report, see *Arctic Bibliography*, No. 1024) on an investigation into the status and utilization of the barren-ground caribou between Hudson Bay and the Mackenzie River, recommended by the Eleventh Conference of Provincial and Dominion Wildlife officials (1947) and undertaken by the Canadian Wildlife Service. The animal plays an important role in the economy of 20,000 people, Eskimos, Indians and whites, by supplying them with meat, hides for clothing, etc., and fears that the species may be depleted, motivated the present investigation. This includes: environment, distribution, range and present status of the animal; migrations and human influence on them; description of the animal (body form, weight, pelage, antlers, etc.); food requirements; individual and group behavior of the animal; vital statistics, growth, pathology, accidents; ecological relations; wolf predation; human utilization; human population in caribou range; native game returns. The study led to the conclusion that the number of animals shrank from an estimated 1,750,000 in 1900 to 670,000 at the time of this study. Control of the number of animals killed, is therefore recommended. This report is summarized in *Polar record*, July, 1952, v. 6, no. 44, p. 532-34.

*Copy seen:* DI.

**20441. BANFIELD, ALEXANDER WILLIAM FRANCIS, 1918-** . Caribou investigation. (*Canadian geographical journal*, Jan. 1950. v. 40, p. 48-51, illus.) Brief account of the Canadian Wildlife Service field investigations and aerial surveys of caribou in the Prairie Provinces and Northwest Territories in 1948-49, particularly details of the surveys in the Yellowknife region in Apr. 1949.

*Copy seen:* DGS; DLC.

**20442. BANFIELD, ALEXANDER WILLIAM FRANCIS, 1918-** . Notes on the mammals of the Mackenzie District, Northwest Territories. (*Arctic*, Sept. 1951. v. 4, p. 113-21, illus., map)

*Contains* result of observations on distribution of mammals made in the course of other field investigations during 1946-49, for the Canadian Wildlife Service, by trapping, canoe trips and low-level flights. "Mackenzie district consists of two major biotic formations in which mammals

occur: the tundra and the taiga or boreal forest biomes. These observations deal with the fauna of both formations." 18 species are dealt with, their occurrence (observed or implied) is discussed together with their color, habitat, migration, abundance, etc. Bibliography (9 items).

**Copy seen:** DLC.

**20443. BANFIELD, ALEXANDER WILLIAM FRANCIS, 1918-** . Second report on the Barren-ground Caribou Investigation. (Arctic circular, Apr.-May 1952, v. 5, no. 4, p. 43-44)

*Contains* note on the final phase of this investigation initiated in 1947: the work of two parties in the summer of 1949. One party studied the caribou west of Hudson Bay near Beverly and Nuelin Lakes and at Churchill; the other studied vegetation on the winter range near Fort Reliance and the Lockhart River, the caribou breeding-grounds near Bathurst Inlet, and caribou concentrations near Arctic Sound and Perry River in Mackenzie District. Data were collected on Eskimo hunting techniques and utilization of caribou during summer migration. The final report of investigation (see above) is summarized in regard to vital statistics of the caribou. A permanent caribou mammalogist, John P. Kelsall of Canadian Wildlife Service has been appointed to continue the investigation with headquarters at Yellowknife.

**Copy seen:** DLC.

**20444. BANG-HAAS, ANDREAS.** Neue oder wenig bekannte palaearktische Macrolepidopteren. (Deutsche entomologische Zeitschrift Iris, 1910. Bd. 24, Heft 1, p. 28-51, plates 3-4) *Title tr.:* New or little known palaearctic Macrolepidoptera.

*Contains* descriptions of 50 new or little known palaearctic species and lower forms of Macrolepidoptera from various regions, including *Agrotis moeschleri* n. sp. and *A. westermanni polaris* n. var. native to Labrador Peninsula.

**Copy seen:** MH-Z.

**BANG-HAAS, ANDREAS,** see also Kennel, J. T. Neue Wicler d. palaearctischen Gebietes. 1901. No. 23188.

**20445. BANK, THEODORE P., II.** Botanical and ethnobotanical studies in the Aleutian Islands I. Aleutian vegetation and Aleut culture. (Michigan Academy of Science, Arts and Letters. Papers, 1951. v. 37, p. 13-30, illus., table, plates)

*Contains* sections on topography and climate of the Aleutian arc; characteristics of the five habitats and their plant-composition, viz: shoreline vegetation; lower grass-meadow vegetation; rock cliff habitat; wind slopes vegetation, and special habitats. The last section deals briefly with plants used for making fishlines, for food, weaving, poisons, etc. Bibliography (9 items). This paper is a result of the author's phyto-ecological observations during 1948-50 for University of Michigan studies. Another paper to be published elsewhere will present descriptions of the sites investigated.

**Copy seen:** CaMAI; DLC.

**20446. BANK, THEODORE P., II.** Experiences of scientific exploration in the Aleutian Islands. (Asa Gray bulletin, Jan. 1952. N. S., v. 1, p. 77-86, illus., map)

*Contains* an introductory sketch of earlier explorations of the Aleutians; their geography, fauna and flora; the University of Michigan Expeditions to the Aleutians begun in 1948 under the general direction of H. H. Bartlett, consisting of small summer field parties, making archeological explorations and plant collections with the aim of establishing a post-glacial chronology for the Aleutians generally in relation to vegetational and faunal succession as well as human occupation. Informal notes are given on parties' work: exploring in ancient burial caves at Kagamil (Islands of the Four Mountains), plant collecting on Great Sitkin, 40 miles east of Adak, etc.

**Copy seen:** CaMAI; DSI-M.

**20447. BANK, THEODORE P., II.** A preliminary account of the University of Michigan Aleutian Expeditions, 1950-51. (Asa Gray bulletin. July 1952. New ser. v. 1, no. 3, p. 211-18, illus. diag. table)

*Contains* note of the 1948 and 1949 field work (which was primarily concerned with botanical and anthropological surveys), followed by details of the 1950 expedition of a party of six, (with author as director for 1950 and 1951): its itinerary, botanical and archeological work; the 1951 expedition (seven members): its itinerary; archeological and ethnobotanical work. The botanical work of both years concerned the study of bryophytes, their habitats and ecology; also soil samples were collected from excavations, road cuts and other exposures, for pollen, spore, seed and microfauna ex-

aminations and for correlations of radiocarbon dating in the area. Archeological activity consisted in reconnaissance of old village sites and burial caves, and collecting ethnobotanical material for radio-carbon dating whilst excavations at Amaknak Island (Dutch Harbor) occupied the 1951 season. In ethnology, files of the Alaska Native Service and the Territorial Health Dept. were studied for economic and medical data and trends among the Aleuts; the use of plants for food, poison and healing was also investigated; ornithological and invertebrate studies were carried out incidentally to other duties.

**Copy seen:** CaMAI; DSI-M.

**20448. BANK, THEODORE P., II.** University of Michigan expeditions to the Aleutian Islands. (Arctic, Mar. 1952, v. 5, no. 1, p. 60)

*Contains* a brief report on the botanical and anthropological work conducted since 1948, under the supervision of H. H. Bartlett, the author acting as field director. More than 20 islands were visited for specialized studies; annotated lists of Aleut plant, animal and place names were prepared and plant lore as well as plant ecology of the past studied; economic and health surveys conducted, and preliminary archeological studies made.

**Copy seen:** DLC.

**BANK, THEODORE P., II, see also** Anderson, S. T., & T. P. Bank. Pollen & radiocarbon studies. 1952. No. 20210.

**20449. BANKERT, CHARLES W.** Frostbite. (Archives of physical therapy. Mar. 1944. v. 25, pl. 144-49)

*Contains* a general account of the significance of frostbite in some earlier military defeats; the causes, physiology and pathology of frostbite; its prevention, therapy; clothing. Bibliography (13 items).

**Copy seen:** DLC.

**20450. BANKS, W. J.** Bears that went to sea. (Forest and outdoors, 1942. v. 38, p. 197-98, 214, illus.)

*Contains* an account of the Steller sea lion, an eared seal which inhabits the North Pacific coast from Bering Sea to California. Offers information on the probable reason for the name "sea lion", and its actual relationship with bears; adaptation to water life; herd life; development; relation to men.

**Copy seen:** DA.

**20451. BARABASH-NIKIFOROV, I. I.** Materialy k metodike sistematicheskikh issledovanii melkikh kitoobraznykh. (Zoologicheskii zhurnal, 1938. t. 17, vyp. 6, p. 1091-1104, illus.) **Title tr.:** On the methods of taxonomic investigation of the Delphinidae.

*Contains* data on craniological study of 39 skulls of the white whales (beluga) from the Kara, White and Okhotsk Seas, with special reference to the methods of this study. Summary in English.

**Copy seen:** MH-Z.

**20452. BARANSKIĬ, NIKOLAI NIKOLAEVICH, 1881-** Èkonomicheskaiâ geografiâ SSSR. Obzor po oblastiam Gosplana. Tret'e stereotipnoe izd. Dopushcheno Nauchno-Politicheskoi Sektsei gosudarstvennogo uchebnogo soveta. Moskva - Leningrad, Gosudarstvennoe izd-vo, 1927. 335 p. maps, diags. (1 fold.) **Title tr.:** Economic geography of the U.S.S.R. Review by regions of the State Planning Commission. Third stereotype edition. Authorized by the Scientific Political Section of the State Board of Education.

*Contains* a general part on the State Planning Regions, their economics, development, etc. There follows a region-by-region survey dealing with area, population, natural resources, agriculture, forests and fisheries, industry, power production, communications, etc. The following arctic or partly arctic regions (oblast') are treated: Northwestern, including the Kola Peninsula (p. 43-53); Northeastern, including the White Sea and Barents Sea coasts (p. 59-68); Siberia, general account (p. 211-16); western Siberia: Ob' oblast' (p. 226-34); Yenisey oblast' (p. 245-51); Yakutsk oblast' (p. 259-62); Far-Eastern, including Kamchatka (p. 262-79). Bibliographical footnotes. **Copy seen:** DLC.

**20453. BARANSKIĬ, NIKOLAI NIKOLAEVICH, 1881-** Èkonomicheskaiâ geografiâ SSSR; uchebnik dlia 8 klassa srednei shkoly. Izd. deviatoe. Moskva, Gosudarstvennoe uchebno-pedagogicheskoe izd-vo ministerstva prosveshcheniâ RSFSR, 1948. 400 p. illus., maps. **Title tr.:** Economic geography of U.S.S.R., a textbook for the eighth grade of high schools. Ninth edition.

A frequently re-published (12th ed. 1951, 423 p.) handbook designed for schools on the college level. The ninth edition contains a general part dealing

with the geography and economy of agriculture, industry, transportation, etc. The second part is regional and includes the following northern areas: northwestern European Russia (p. 119-33); the northeastern European Russia (p. 133-43); Siberia and the Far East, a general outline (p. 219-27); western Siberia (p. 228-44); eastern Siberia (p. 244-58); the Far-East (p. 258-71), and the Karelo-Finnish SSR (p. 314-18). **Copy seen:** DLC (several eds. incl. 9th, 1948, 11th, 1950 (415 p.), 12th, 1951 (423 p.).

**20454. BARANSKIĬ, NIKOLAI NIKOLAEVICH, 1881-** . Kratkiĭ kurs ekonomicheskoi geografii, vyp. pervyi. Obshchie ponatiia, ocherk mirovogo khozaiſtva. Prilozhenie: L. D. Sinitskiĭ, Ocherk vazhnelshikh inostrannykh gosudarstv. Izd. piatoe s ispravleniiami i dopolneniiami. Dopushcheno uchebno-metodicheskim sektorom Narkomprosa. Moskva-Leningrad, Gosudarstvennoe izdvo, 1930. 237 [1] p. diagrs., maps. **Title tr.:** A short course in economic geography, pt. 1. General conceptions, outline of world economy. Supplement by L. D. Sinitskiĭ: Essay on the most significant foreign countries. Fifth edition with corrections and additions. Authorized by the school sector of the Peoples Commissar of Education.

A textbook on world economy. Problems of arctic regions are discussed in chapter 2 (p. 24-58), dealing with geographical surroundings and man's economy, particularly the following factors and their effects are discussed: geographical latitude, relief, distance and relation to the sea, climate, soil, rivers and lakes, flora, fauna and mineral resources. Arctic information is also contained in the chapter on Scandinavia and Finland (p. 188-91). **Copy seen:** DLC.

**20455. BARANSKIĬ, NIKOLAI NIKOLAEVICH, 1881-** . Kratkiĭ kurs ekonomicheskoi geografii, vyp. vtoroi. Obshchiĭ obzor SSSR v tselom. Izd. piatoe s ispravleniiami i dopolneniiami. Dopushcheno uchebno-metodicheskim sektorom Narkomprosa. Moskva-Leningrad, OGIZ—"Moskovskii rabochii", 1931. 301 p. illus., tables, maps. **Title tr.:** A short course in economic geography, pt. 2, General review of U.S.S.R. as a whole. Fifth edition with corrections and additions. Authorized by the school sector of the Peoples Commissar of Education.

A textbook on economic geography of

the Soviet Union. Arctic areas and conditions are dealt with in the section on physical geography (p. 12-31) specifically as to: relation to the sea, relief and climate, soils and vegetation, natural resources; also in the section on sea and river transport (p. 52-62) which includes arctic seas and large rivers emptying into them (Ob', Yenisey, Lena) and in the section dealing with forests, fisheries and hunting (p. 184-89). **Copy seen:** DLC.

**BARANSKIĬ, NIKOLAI NIKOLAEVICH, 1881-** see also Akademiia nauk SSSR. Institut geografii. Russkie geografii i puteshestvenniki. 1948. No. 20098.

**BARANSKIĬ, NIKOLAI NIKOLAEVICH, 1881-** , see also Amerikanskiĭ Sever, sbornik statei. 1950. No. 20180.

**20456. BARBEAU, CHARLES MARIUS, 1883-** . Asiatic survivals in Indian songs. (Scientific monthly, Apr. 1933. v. 54, (no. 319), p. 303-307)

Contains discussion of certain features of songs collected by the author in Yukon Territory and northern British Columbia, recognized to have similarity with those current among modern Chinese. Analysis of northwestern American and Siberian songs and rituals, the author believes would demonstrate their relationship. Study (in progress) of wax recordings (in American Museum of Natural History New York) made by the Jesup North Pacific Expedition reveals "unexpected relations of a semi-historical nature between peoples on both sides of Bering."

**Copy seen:** DLC.

**20457. BARBEAU, CHARLES MARIUS, 1883-** . Songs of the Northwest. (Musical quarterly, Jan. 1933. v. 19, no. 1, p. 101-111, plate)

Contains descriptive notes on several songs recorded by the author during travels among Indians of the Southeast Alaska - Yukon - British Columbia border region. Words and airs are transcribed here. Author stresses the social function of these songs, and suggests an Asiatic background to both singers and the songs.

**Copy seen:** DLC.

**20458. BARBEAU, CHARLES MARIUS, 1883-** . Totem poles . . . according to crests and topics. Ottawa [1950]. 2 v. xii, 880 p., col. front., 561 illus., maps on end papers. (Canada. National Museum. Bulletin, no. 119, v. 1-2)

Contains introductory discussion (p. 1-14) of the development of plastic art

among Indians of the Northwest coast in the 19th century by use of tools of European origin: the totem pole coming "into fashion through the rise of ambitions fostered mostly by the fur trade," the carved figures on the cedar poles being family crests, and representing historical events, legends, natural phenomena and animals of the country. "The legendary origin of most of these emblems is explained in traditional narratives . . . recited at the winter festivals or potlatches after totem poles had been erected." Author remarks on features of the northwest coastal tribes' social life, practical problems of raising totem poles, aesthetic character of the carvings, their themes' affinities with mythology of Asiatic peoples.

This work covers all the totem poles, house posts and frontals of British Columbia and Alaska (excepting those treated in the author's *Totem Poles of the Gitskan, Upper Skeena River, British Columbia*, 1929). In v. 1, 186 are shown in photographic illustrations accompanied by descriptions, measurements, location *in situ* and in museums. The material is arranged systematically according to crests (23) and topics, and the legends (a few hundred) symbolized by the carved figures, are narrated as they are known to (mainly) Tsimshian, Haida, and Tlingit tribes.

In v. 2 the material is arranged regionally: totem poles, etc. of the Tsimshians', Haidas', Tlingits' (p. 435-649) and other (more southerly) groups are presented with photographic illus., descriptions, historical and folkloristic notes. In a final chapter, the growth of totemism on the North Pacific coast in the past 175 years, is summarized, with stress on its bases in the white man's economy and the indigenous social organization; its manifestations of a Siberian social pattern persisting among northwest coastal peoples are noted. Systematic and chronological analyses are made by Dr. Barbeau of the principal literature, and a comprehensive bibliography (121 items) compiled by James H. Johnstone and Marcel Rioux. A summary of totem pole conservation and restoration is included.

**Copy seen:** DGS; DSI-M.

**20459. BARBIER, DANIEL, 1907-**, and **D. R. WILLIAMS**. Observations of the aurora borealis. (Journal of geophysical research, Dec. 1950. v. 55, p. 401-414, illus., diags.)

"From spectrograms obtained near Fairbanks, Alaska [Jan.-Feb. 1949], identifications of lines and bands in the spectral range from 3100Å to 5000Å are proposed. The presence of the heretofore debatable lines, NI 3467 and OI 4368, is confirmed. The observed intensity distribution in the Vegard-Kaplan system in the aurora is entirely different from that in the night sky. Several weak spectrograms in the region 6300 Å to 6900 Å are discussed. Visual observations of auroral phenomena are set forth and include a detailed description of a blue, sunlit aurora." —Authors' abstract. More detailed abstract is given in *Meteorological abstracts and bibliography*, May 1951. v. 2, no. 5, p. 372.

**Copy seen:** DGS.

**20460. BARBIER, DANIEL, 1907-**, and **H. PETTIT**. Photometric observations of the airglow and of the aurora borealis at College, Alaska. (*Annales de géophysique*, Apr./June 1952. t. 8, no. 2, p. 232-47)

Contains an account of studies made during Feb. 21-25, 1949 by an expedition organized by the Aerophysics Branch, U. S. Naval Ordnance Test Station, to the Geophysics Observatory of the University of Alaska, 64°53' N. 147°51' W. The Roach photometer was used with due corrections for scattered light. In airglow, the intensity of the green line was found to be about the same as in moderate latitudes; the D line and  $\lambda$  5210 were much weaker; as to the auroral, most observations of the green line indicated a height of 135 km. but a few gave 750 km.; the other two radiations seemed to be emitted at high altitude: some indications of the macroscopic structure of the aurorae are also included. Bibliography (12 items).

**Copy seen:** DGS.

**20461. BARBOUR, HENRY G., and others**. An approach to the use of drugs in hypothermia. (*Yale Journal of biology and medicine*, Jan. 1944. v. 16, p. 231-38) Other authors: E. A. McKay and W. P. Griffith.

Contains a report on experiments with a series of drugs, aimed at promoting recovery after hypothermia. Beta-tetrahydronaphthylamine, among the drugs used, best facilitated recovery in rats; it hastened resumption of righting reflexes and the disappearance of edema. Ephedrine reduced edema earlier in the rewarming period than beta-tetra, but

was inferior in other respects. Bibliography (4 items). **Copy seen:** DLC.

**20462. BARBOUR, HENRY G.** Reflex intracellular water increase in cold environments. (American journal of physiology, May 1940. v. 129, no. 2, p. P304-305)

*Contains* a brief report on experiments with cats, kept for 30 minutes at 25°, 35° and 45° F. In the experimental animals water was found to be 51-66 percent intracellular as against 41-56 percent in controls. Attraction into the interior of the cell is hence considered to be the main factor in the reflex shift of water, in response to cold environment.

**Copy seen:** DLC.

**20463. BARBOUR, HENRY G., and others.** Water shifts in deep hypothermia. (American journal of physiology, Oct. 1943. v. 140, no. 1, p. 9-19, 6 fig.) *Other authors:* E. A. McKay and W. P. Griffith.

*Contains* a study on monkeys and rats kept within a few degrees of 0° C. Includes account of previous studies and findings; procedure, total metabolism, blood changes, etc. Exposure to cold with retention of protective reflexes was found to lead to a gain in intracellular water. If, however, the central nervous system becomes so chilled as to cause general neuro-muscular depression, the effect on the hypothalamus is to abolish the reflex responses to cold, which includes a reversal in water shift, with increased extracellular fluid. Bibliography (13 items).

**Copy seen:** DLC.

**20464. BARCA, EMIL.** Drei verkannte Gelechiden, die aus Norwegen beschrieben sind. (Entomologisk tidskrift, 1932. Årg 53, häft 1, p. 31-35, illus.) **Title tr.:** Three neglected species of *Gelechia* described from Norway.

*Contains* critical description of three species of lepidopterous genus *Gelechia* incompletely or wrongly described by previous authors, including *G. norvegiae* from Nordland and Finnmark and *Xystophora saltanella*, first described as *G. saltanella*, native to Nordland.

**Copy seen:** MH-Z.

**20465. BARCA, EMIL.** Rettelser og tilføielser til "Fortegnelse over Norges Lepidoptera" (N. E. T. III s. 165). Norsk entomologisk tidskrift, 1935. Bd. 4, hefte 1-2, p. 84-86) **Title tr.:** Corrections and additions to "Fortegnelse

over Norges Lepidoptera" [List of Norwegian Lepidoptera] (N. E. T. III, p. 165).

*Contains* a list of 15 species of Lepidoptera added to Norwegian fauna since the publication of K. Haanshus, *Fortegnelse*, 1933, q. v., a list of new localities and a few corrections; includes two species occurring in Finnmark.

**Copy seen:** MH-Z.

**20466. BARCROFT, H., and O. G. EDHOLM.** The effect of temperature on blood flow and deep temperature in the human forearm. (Journal of physiology, 1943. v. 102, no. 10, p. 5-20, tables, diagrs.)

*Contains* a report on experiments by immersing the forearm for 2 hours in water of temperatures ranging from 13° to 45° C. The average blood-flow ranges, and flow-time relations at these temperatures are given, and the significance of these time relations discussed. The deep muscle temperature range at various temperatures is also presented. Bibliography (25 items).

**Copy seen:** DLC.

**BARK, RAYMOND STANLEY, see Carlson, L. D., & others.** Report studies acclimatization winter 1948-49. 1949. No. 21125.

**20467. BARKALOV, FREDERICK S., Jr.** Life history and ecologic observations on the tundra mouse (*Microtus oeconomus*) and lemmings (*Lemmus trimucronatus* and *Dicrostonyx groenlandicus*) at Barter Island, Alaska. (Elisha Mitchell Scientific Society. Journal, Dec. 1952. v. 68, p. 199-205, plate)

*Contains* an account of habitat, nests, food, and habits of lemmings and voles, during a low population cycle, summer 1951, on Barter Island, 70°07' N. 143°40' W., Northern Alaska. In addition to the three species studied, the arctic fox and some predatory and other birds made up the animal population of the island.

**Copy seen:** DGS.

**20468. BARKER, MAURICE EUGENE.** 1894-. Warm clothes. (Scientific American, Mar. 1951. v. 184, no. 3, p. 56-60, illus.)

*Contains* clear, simple description for the general reader, of the human physiology of temperature regulation and heat loss, the basic requirements of clothing, and tabulated results; discussion, of experiments on various fabrics and com-

binations of fabrics in still air and wind, on color effect of fabrics and moisture effect, all experiments having been made with an artificial body under controlled conditions. **Copy seen:** DGS; DLC.

**20469. BARKHATOVA, V. P.** New data on the stratigraphy of the Upper Paleozoic of the northern Timan. (Akademika nauk SSSR. Comptes rendus (Doklady), 1941. nouv. ser., v. 32, no. 9, p. 647-50)

"Describes Carboniferous and Permian formations from sections along the Volonga and Pesha Rivers, in the northern Timan region [66°-67° N. 48° E.] U.S.S.R."—Geological Society of America, *Bibliography and Index of geology*, 1941-42. v. 9, p. 16.

**Copy seen:** DGS; DLC.

**BARNES, CLIFFORD ADRIAN, 1905-**, see U. S. Coast Guard. International ice observ. & patrol 1941, 1948, pub. 1950. No. 26899.

**20470. BARNES, FARRELL FRANCIS, 1905-**, and others. Coal investigations in south-central Alaska, 1944-46... With a section on clay deposits on Healy Creek, by E. H. Cobb. Washington, D. C. U. S. Govt. Print. Off., 1951. v, 137-213 p. illus., 14 plates (incl. 4 maps). (U. S. Geological Survey. Bulletin 963-E) Mineral resources of Alaska, 1945-46, pt. E.

*Contents:* Wahrhaftig, C., C. A. Hickcox, and J. Freeman. Coal deposits on Healy and Lignite Creeks, Nenana coal fields, Alaska.

Wahrhaftig, C. Geology and coal deposits of the western part of the Nenana coal field.

Hopkins, D. M. Lignite deposits near Broad Pass station, Alaska.

Barnes, F. F. Mining and exploration in 1945 in the Wishbone Hill coal district, Matanuska valley, Alaska.

Barnes, F. F. Preliminary report on coal deposits near Homer, Alaska.

**Copy seen:** DGS.

**20471. BARNES, FARRELL FRANCIS, 1905-**, and D. M. FORD. Coal prospects and coal exploration and development in the lower Matanuska valley Alaska, in 1950. Washington, D. C., 1952. 1 p. l., 5 p. fold. map. (U. S. Geological Survey. Circular 154) Process printed.

*Contains* brief notes on the geologic setting of the lower Matanuska valley, Alaska and reports on operating coal

mines and a few isolated prospects (one on the Little Susitna River).

**Copy seen:** DGS.

**20472. BARNES, FARRELL FRANCIS, 1905-**. A review of the geology and coal resources of the Bering River coal field, Alaska. [Washington, D. C.] 1951. 11 p. maps. (U. S. Geological Survey. Circular 146) Process printed.

*Contains* a synopsis of published information concerning the stratigraphic and structural relations of the Tertiary coal-bearing beds of Alaska in the area 60°15'-30' N. 143°45'-144°20' W., north and northeast of the Bering River, with special reference to position, properties, and mining conditions of the coal. High quality coking and anthracite coal in large quantity is present, under such adverse conditions produced by disturbances, as to render successful mining complicated and uneconomical.

**Copy seen:** DGS.

**20473. BARNES, FREDERICK QUILLIAM, 1926-**. McLean Bay map-area District of Mackenzie, Northwest Territories (preliminary report). Ottawa, 1952. 25 p. map. (Canada. Geological Survey. Paper 52-5) Mimeographed.

*Contains* notes on the physical features and general geology of a region on the south side of the east arm of Great Slave Lake. Pleistocene and Recent material overlies Precambrian of the Etthen, Great Slave and Yellowknife groups. A number of uranium properties are described briefly, and indications of copper and hematite mineralization noted. A geologic map (scale 1:40,000) 62°15'-30' N. 110°00'-30' W. is included.

**Copy seen:** DGS.

**20474. BARNES, FREDERICK QUILLIAM, 1926-**. Snowdrift map-area, Northwest Territories (report and map). Ottawa, 1951. 30 p. fold. map in envelope. (Canada. Geological Survey. Paper 51-6)

*Contains* a preliminary geological map of an area on the eastern shore of Great Slave Lake, between 62°15' to 62°30' N., and 110°30'-111° W., scale 1:40,000. The descriptive text contains information about the topography, drainage, vegetation, etc., of the mapped area; its general, structural and economic geology.

**Copy seen:** CaMAI.

**BARNES, FREDERICK QUILLIAM, 1926-**, see also Lord, C. S., & F. Q.

Barnes. Second prelim. map Aylmer L. 1950. No. 23992.

**BAROVSKAĬ, T. I. S.,** see Shchegoleva-Barovskaĭ, T. I.

**20475. BAROVSKIĬ, VLADIMIR VLADIMIROVICH.** Cantharidides asiatiques nouveaux (Coleoptera), III. Espèces nouvelles ou peu connues du genre *Silis* Latr. (Russkoe entomologicheskoe obozrenie, 1928. t. 22, no. 3-4, p. 216-22, illus.) **Title tr.:** New Asiatic Cantharididae (Coleoptera), III. New or little known species of the genus *Silis* Latr.

Contains Latin diagnoses of five new or little known Asiatic beetles of coleopterous genus *Silis*, including *S. motshulskii* nom. nov. from Yakutia (Aldan River region) and *S. tolli* n. sp. occurring in the Verhoyansk and Yana River regions of Yakutia; part 3 only of this work contains arctic material.

**Copy seen:** MH-Z.

**20476. BAROVSKIĬ, VLADIMIR VLADIMIROVICH.** Obzor vidov roda *Saperda* L. fauny SSSR. (Coleoptera, Cerambycidae). Akademiĭa nauk SSSR. Zoologicheskii institut. Trudy, 1932, pub. 1933. T. 1, vyp. 2, p. 193-200) **Title tr.:** Study on species of the genus *Saperda* L. of the fauna of the U.S.S.R. (Coleoptera, Cerambycidae).

Contains a table for the determination of 15 species of the coleopterous genus *Saperda* living on woody plants, including at least one species, *S. perforata*, occurring in the region of Ob' Bay, western Siberia. Bibliography (18 items) and a special list of literature on biology of these coleopters arranged by the species are added. Summary in French.

**Copy seen:** DLC; MH-Z.

**20477. BAROVSKIĬ, VLADIMIR VLADIMIROVICH.** Zhuki semelstva Lycidae (Coleoptera). Leningrad, izd-vo Akademii nauk SSSR. 1931. 27 p., plate. (In: Akademiĭa nauk SSSR. Opredeliteli po faune SSSR. No. 3) **Title tr.:** Beetles of the fam. Lycidae (Coleoptera).

Contains characteristics (in brief) of the coleopterous family Lycidae, keys to the genera, species and subspecies and description of 22 species and forms, including at least one species *Dictyopectera aurora*, native to Lapland and all Siberia.

**Copy seen:** MH-Z.

**20478. BARRER, BERT, and MARY BARRER.** The Haines' Highway, freightway to the interior of Alaska. (Highway magazine, June 1949. v. 40, p. 135-38, incl. illus. map)

"The Haines Highway, a supply line of the Alaska Highway, is built on a foundation of natural gravel or rock for most of the 154 mi. length. One short section crosses glacial silt which washes onto the roadway in the rainy season. This section is kept clear with a road grader. The section of the highway in Alaska (42 mi.) is kept open all year. Snowdrifts are not a problem because much of the road is built above the level of the surrounding terrain. Bulldozers are used to remove ice which forms on the road when seepage water freezes." —Road abstracts. **Copy seen:** DLC.

**BARRER, MARY.** see Barrer, B., & M. Barrer. Haines Highway. 1949. No. 20478.

**20479. BARRETT, LUCAS.** Notes on the Brachiopoda observed in a dredging tour with Mr. M'Andrew on the coast of Norway, in the summer of the present year. (Annals and magazine of natural history, Oct. 1855. Ser. 2, v. 16, p. 257-59, illus.)

Contains descriptive notes on four species of living brachiopods collected above the Arctic Circle.

**Copy seen:** DSI-M.

**20480. BARSANOV, G. P.** On the mineralogy of the Iona iron-ore deposit. (Akademiĭa nauk SSSR. Comptes rendus (Doklady), 1941. nouv. ser., v. 31, no. 3, p. 246-49, illus., table)

"Describes magnetite, forsterite, titanclinogumite, schorlomite, phlogopite, sphene, and staffelite from the skarns and ores of the Iona magnetite deposit. [Iona-Kovdorozero region near 67°35' N. 30°30' E.]"—Geological Society of America, *Bibliography and index of geology*, 1941-42. v. 9, p. 17.

**Copy seen:** DLC.

**20481. BARSANOV, G. P.** On the mineralogy of the Urutukan deposits (upper Kolyma, Far East region). (Akademiĭa nauk SSSR. Comptes rendus (Doklady), 1941. nouv. ser., v. 31, no. 7, p. 689-90) **Copy seen:** DLC.

**20482. BARTELS, MAXIMILIAN CARL AUGUST, 1843-1904.** Ein Eismesser

der Eskimo in Grönland. (Zeitschrift für Ethnologie, Verhandlungen, 1899, Bd. 31, p. 747-48, illus.)

*Contains* description of a sabre-shaped knife of reindeer horn, 31.5 cm. long, with 3 holes near the tip, and a handle. It was used for cutting ice from kayaks and for making string, strips of hide being pushed through the holes.

*Copy seen:* DLC; InU.

**20483. BARTELS, MAXIMILIAN CARL AUGUST, 1843-1904.** Die Medizin der Naturvölker; ethnologische Beiträge zur Urgeschichte der Medizin. Leipzig, Th. Grieben's, 1893. xii, 361 p., illus. *Title tr.:* The medicine of primitive peoples; ethnologic contributions to the prehistory of medicine.

*Contains* description of medical beliefs and practices among primitive peoples: on the origin of diseases, diagnosis, medicaments and their application, preparation of medicaments, hydrotherapy, massage, diet, supernatural treatment (exorcism and shamanism), special therapy (for eyes, ears, nervous diseases and epilepsy), hygiene and behaviour in some of the epidemics, minor and major surgery. The work is based on the literature and includes, scattered throughout the text, remarks on several Siberian peoples. Appendices give notes on the 175 wood-cut illus., guide to the essential literature (100 items) and index of geographic and tribal names.

*Copy seen:* DLC.

**20484. BARTELS, P.** Kasuistische Mittheilung über den Mongolenfleck bei Eskimo. (Zeitschrift für Ethnologie, 1909. Bd. 41, p. 721-25, illus.) *Title tr.:* Incidental remarks on the Mongolian spot among the Eskimos.

*Contains* comment on the fact that some Eskimo children in Greenland have the dark blue spots on the back, typical of the Mongolic race, while American Indians do not have such spots.

*Copy seen:* DLC; InU.

**20485. BARTENEV, ALEKSANDR NIKOLAEVICH.** Materialy po faunë strekoz okrestnostei g. Äkutska. Russkoe éntomologicheskoe obozrenie, 1917, pub. 1921. t. 17, p. 129-34) *Title tr.:* Contribution to the dragon-fly fauna of Siberia, 16. Dragon-fly fauna in the vicinity of Yakutsk.

*Contains* a list of 16 species of dragonflies of Siberia collected by T. I. Ürinskii

in the vicinity of Yakutsk with localities and occasional critical notes.

*Copy seen:* MH-Z.

**20486. BARTENEV, ALEKSANDR NIKOLAEVICH.** Materialy po strekozam palearkticheskoi Azii iz Kolleksiil Zoologicheskago Muzeia Imp. Akademii nauk, I-II. (Akademii nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1911-1912, pub. 1912-1913, t. 16, p. 409-448, illus.; 17, p. 284-310) *Title tr.:* Material on the dragonflies from palaearctic Asia in the collections of the Zoological Museum of the Imperial Academy of Sciences, 1-2.

*Classified* list, with localities, and some notes and descriptions, of 148 species of dragonflies, a few of which were recorded north of the 60° N. lat. parallel, including (pt. 2, p. 292-93) *Sympetrum flavoleum* native to the lower Lena River basin.

*Copy seen:* DLC; MH-Z (part 2 in v. 17 only).

**20487. BARTH, TOM FREDRIK WEIBY, 1899-** . The differentiation of a composite aplite from the Pribilof Islands, Alaska. (American journal of science. Bowen volume, 1952, pt. 1, p. 27-36, sketch map)

*Contains* an account of the mode of occurrence and field relations of an aplite dike intruded into massive peridotite on the southeastern shore of St. George Island; includes chemical analyses of the fine-grained chilled margins and medium-grained granular central portion, and a bibliography (20 items).

*Copy seen:* DGS.

**20488. BARTON, LELA V.** Biological effects of freezing. (Refrigerating engineering, Feb. 1949. v. 57, p. 145-47, 157)

*Contains* sections on cold tolerance of bacteria, algae, fungi, yeast, reproductive cells and tissues of higher plants and animals; causes of death by low temperature (protoplasmic-cellular-systemic and organismal death); beneficial effects of low temperature to stored fruit, to seeds, etc. Bibliography (23 items).

*Copy seen:* DLC.

**20489. BARTRAM, EDWIN BUNTING, 1878-** . Mosses of the Nueltin Lake Expedition, Keewatin, 1947. Philadelphia, 1950. 5 p. (Academy of Natural Sciences, Philadelphia. Notulae naturae, No. 226)

List of 35 species and varieties of

mosses with localities, and a brief description of the region in southwestern Keewatin (about 61° N. 100° W.) where the collections were made.

**Copy seen:** DLC.

**20490. BARTZ, FRITZ.** Alaska. Stuttgart, K. F. Koehler, 1950. 4 p.l., 384 p. 24 plates, 14 maps (4 fold.) (Geographische Handbücher; hrsg. von Hermann Lautensach) text in German.

*Contains* an outline of the economic and human geography of Alaska based on published literature, and on the author's observations during visits to Alaska (in all, nine months' stay) in the period 1936-38. Chapters on: (1) Natural characteristics: surface features, climate, ice age and present glaciation, vegetation and fauna. 2. Natives before the white man's advent: distribution and regional adaptation of different groups, and problem of the origin of the natives. 3. Colonization by the white man: development under the Russians, and the Americans. 4. Modern economy of Alaska: fisheries, mining, agriculture (including colonization), forestry, reindeer industry, and the fur trade. 5. Man and his settlement in present day Alaska: native and white distribution, way of life and regional differences, colonization, commerce, and changes wrought by World War II. Bibliography (214 items). Reviewed by R. H. Coats in *Arctic*, Sept. 1951. v. 4, no. 2, p. 131-33.

**Copy seen:** DLC

**20491. BARTZ, FRITZ.** Alaska, Randland Nordamerikas. (Zeitschrift für Erdkunde, Aug.-Sept. 1943. Jahrg. 11, p. 387-96) **Title tr:** Alaska, North America's outpost.

*Contains* description of the Territory, its economy and development, physical features and peoples. **Copy seen:** DLC.

**20492. BARTZ, FRITZ.** Alaska, wie es heute ist. (Kosmos, 1950. Jahrg. 46, p. 99-103, illus., map) **Title tr:** Alaska as it is today.

*Contains* general remarks on the inhabitants, industry, history and native peoples of Alaska. **Copy seen:** DLC.

**20493. BARYGIN, V. M.** Priznaki gazozonosti i neftenosnosti v Vorkutskom rafone. (Akademiia nauk SSSR, Izvestiia. Seriia geologicheskaiia, 1941. no. 2, p. 104-111, tables, map) **Title tr:** Evidence of gas and oil occurrences in the Vorkuta region.

*Contains* a report on hydrogeological investigations in the Vorkuta coal basin (67° N. 64° E.) showing presence of gas in the lower Permian strata and of an aquifer below the permafrost. The composition of the gases, which rise from boreholes and springs, is given. The composition of the gases suggests to the author the presence of oil.

Summary in English.

**Copy seen:** DLC.

**20494. BASCHIN, OTTO, 1865-1933.** Die Polflucht des Meerwassers. (Naturwissenschaften, July 8, 1927. Bd. 15, Heft 27, p. 559-61) **Title tr:** The "flight from the Pole" of the sea-water.

*Contains* a brief note on the movements of sea-water in general; an explanation and analysis of the force which, due to the earth's rotation, has a direction away from the Poles; the energy of this force ( $\frac{1}{3,000,000}$  of gravity, at 45° lat.), etc. Author assumes that, despite the small energy of this force, it affects the ice masses floating off the polar regions and these in turn effect the water masses, thus causing the latter's "flight from the Poles". Bibliographical footnotes.

**Copy seen:** DLC.

**20495. BASCHIN, OTTO, 1865-1933.** Stefánssons Landentdeckung im nord-amerikanischen arktischen Archipel. (Naturwissenschaften, Marz 24, 1916. Jahrgang 4, Heft 12, p. 154-56, map) **Title tr:** Stefánsson's discovery of land in the North American arctic archipelago.

*Contains* summary of progress of the Canadian Arctic Expedition 1913-1918 to the summer of 1915: travel of the northern party under Stefánsson, discovery of new land about 78° N. 120° W. (Borden and Brock Islands.) Author relates this discovery to R. A. Harris' hypothesis of a land mass between the northern Alaskan coast and the North Pole.

**Copy seen:** DLC.

**20496. BASKIN, SEMEN.** "Bol'shol chertezh Kamehadalskoi zemli". (Vsesoiuznoe geograficheskoe obshchestvo. Izvestiia 1949. t. 81, no. 2, p. 226-38, map) **Title tr:** "The great sketch of Kamchadal Land".

An appreciation of the work of Ivan Petrovich Kozyrevskii known also as Ignatiev. This cossack settled in Kamchatka in 1700 where he lived till 1720. He made an accurate and (even by modern standards) objective description of the land and its inhabitants, and

recorded valuable information about Russian shipping in the Pacific at the beginning of the 18th century. An analysis of Kozyrevskii's account with a reproduction of his map ("The great sketch") is included.

*Copy seen:* DLC.

**BASMANOV, N. G.,** *see* Sergeev, M. A. Skazki narodov Sev. 1951. No. 26049.

**BASS, DAVID E.,** *see* Bader, R. A., & others. Hormonal alterations heat & cold stress. 1948. No. 20395.

**BASS, DAVID E.,** *see also* Bader, R. A., & others. Hormonal & renal mechanisms of cold diuresis. 1950. No. 20396.

**BASS, DAVID E.,** *see also* Bader, R. A., & others. Hormonal & renal mechanisms of cold diuresis. 1952. No. 20397.

**BASS, DAVID E.,** *see also* Bader, R. A., & others. Renal & hormonal mechanisms of cold diuresis. 1949. No. 20398.

**BASS, DAVID E.,** *see also* Stein, H. J., & others. Hormonal alterations in men heat & cold stress. 1949. No. 26415.

**20497. BATEMAN, JOHN DANVERS,** 1910-. Some geological features at Giant Yellowknife. (Geological Association of Canada. Proceedings, 1952. v. 5, p. 95-107, incl. 4 p. of diagrs.)

*Contains* a study of structural relations and quartz-sulphide mineralization in the gold-bearing shear zone system which is extensively developed in early Precambrian metamorphosed basic flows, at the Giant Yellowknife Gold Mines property, west of Yellowknife bay, Great Slave Lake, Mackenzie District.

*Copy seen:* DGS.

**20498. BATES, DONALD H., Jr.** Salmon in a trap. (Alaska sportsman, May 1950. v. 16, no. 5, p. 6-11, illus.)

*Informative account in popular style, of setting and working a floating salmon trap in Southeast Alaskan waters.*

*Copy seen:* DI.

**20499. BATES, ROBERT H.** Mount Hubbard and Mount Alverstone. (American alpine journal, 1952. v. 8, p. 227-36, 4 plates)

*Contains* an account of the ascent in July 1951, of the peaks, Hubbard and Alverstone (St. Elias Range) on the Alaska-Yukon border.

*Copy seen:* DGS.

**20500. BATHEN, FR.** Hvordan Norsk Polarklubb ble til. (Polarboken, 1949, p. 80-86, illus.) *Title tr.:* How the Norwegian Polar Club came into existence.

*In 1928 the author took charge of the radio station in the Grønfjorden (Svalbard), where he had as his assistant Dagfinn Steinskog. When these two met in Oslo four years later, they organized the Polar Club together with Odd Arnesen, Norway's leading newspaper authority on the polar regions. Although the idea for the club was Bathen's, Arnesen was chiefly responsible for its realization.*

*Copy seen:* CaMAI.

**BATIEVA, I. D.,** *see* Chumakov, A. A., & others. Novoe mestorozhdenie stenstrupina. 1947. No. 21219.

**20501. BATTLE, W. R. B.** Contributions to the glaciology of north east Greenland 1948-49 in Tyrolerdal and on Clavering Ø. København, C. A. Reitzel, 1952. 28 p. illus., sketch map. (Meddelelser om Grønland. Bd. 136, nr. 2, [pt. 2])

*Contains* results of investigations on cirque formation, surface features, movements and subglacial crystallography and streams, made during two Leeds University Expeditions, 1948-49 in the Tyroler Dal and Clavering Island regions of East Greenland. Includes a list of nine new geographic names, and a bibliography (34 items). *Copy seen:* DGS.

**20502. BATTLE, W. R. B.** Glacier movement in north-east Greenland, 1949, with a note on some subglacial observations. (Journal of glaciology, Oct. 1951. v. 1, p. 559-63, diagrs.)

*"The movement of the Frøya Glacier [74°20' N. 20°50' W.] was observed from 2 stations every 30 min. for 24 hrs. over a period of 3 weeks. The velocity over a cross-section of the glacier was determined by measuring with a theodolite at a fixed point the angular displacement of a series of stakes set in 80 cm. bore holes. A plot of the movement of the line of stakes show 2 zones of greatest speed separated by a zone of slower moving ice. The flow is irregular over short periods and is attributed to Block-Schollen movement. The distribution of thrust planes has no noticeable effect on the flow. Investigations of a subglacial stream bed on the Skille Glacier [Clavering Ø] revealed an ice thickness of 76 m. at a point 500 m. from the glacial snout.*

Medial moraines were observed at the base of the glacier."—SIPRE.

**Copy seen:** DGS; DLC.

**20503. BATTY, E. S. W.** Yellowknife. (RCMP quarterly, July, 1949. v. 25, no. 1, p. 16-22, illus.)

Account of history, industrial development, local government and law enforcement at this mining town on Great Slave Lake by officer in charge of the RCMP detachment there.

**Copy seen:** CaMAI.

**20504. BAUER, ALBERT.** Wissenschaftliche Ergebnisse der französischen Polarexpeditionen. Adélie-Land [Antarktis] 1948 bis 1952 und Grönland 1948 bis 1951. (Naturwissenschaftliche Rundschau, Jan. 1952. Bd. 5, p. 1-8, incl. illus. tables, graph, maps) **Title tr.:** Scientific results of the French polar expeditions. Adélie-Land (Antarctica) 1948 to 1952 and Greenland 1948 to 1951.

"The organization and equipment carried by the Paul-Émile Victor expeditions are discussed. Procedures used in making gravitational measurements and the investigation made by the geodetic groups are summarized."—SIPRE.

**Copy seen:** DLC.

**20505. BAUER, ALBERT.** Wissenschaftliche Ergebnisse der französischen Polarexpeditionen, II. Teil, Grönland 1948. (Naturwissenschaftliche Rundschau, Feb. 1952. Bd. 5, p. 49-54, incl. illus. graphs, maps) **Title tr.:** Scientific results of the French polar expeditions. Part II, Greenland 1948.

"Seismic ice thickness measurements were made with 5 seismographs each 10 m. apart and one at a distance of 50 m. Thicknesses up to 3400 m. were measured. Glaciological drilling methods are described including ground, thermoelectric, and grab drills."—SIPRE. Bibliography (40 items).

**Copy seen:** DLC.

**BAUER, O. N.,** see Markevych, O. P., & O. N. Bauer. Parazytychni veslonogi rakopodibni. 1950. No. 24180.

**20506. BAUER, WALTER, 1904-** Polflug, Bericht von Andrée und dem "Adler." [Gütersloh] C. Bertelsmann, 1952. 61 p. (Das kleine Buch, 42) **Title tr.:** Polar flight, report of Andrée and the "Eagle."

Contains a detailed account of Andrée's flight with the balloon *Örnen* (Eagle)

in 1897 from northern Spitsbergen; the first meager news of the party at that time; discovery in 1930 of bodies, remnants and diaries of the expedition by G. Horn (on the *Braatvaag*) on Kvitøya (White Island) northeasternmost island of the Svalbard archipelago; the course and fate of the expedition as reconstructed from its remains, diaries, etc.

**Copy seen:** DLC.

**20507. BAUERMAN, K.** K voprosu ob aziatskom proiskhozhdenii kor'akov. (Sovetskaiā Aziā, 1928. god 4, no. 5-6, p. 117-24) **Title tr.:** The question of the Asiatic origin of the Koryaks.

Contains discussion of the relationship of Koryaks with Paleo-Asiatic or Mongoloid peoples, and (on the other hand) with Americanoids; the names of Siberian rivers are cited as evidence of the Asiatic origin of Koryaks.

**Copy seen:** DLC.

**20508. BAUMANN, ARTHUR.** Erdmagnetische Arbeiten bei der "Haudegen"-Expedition im Nordostland Spitsbergens 1944-45 (Zusammenfassung). (Polarforschung, 1948, pub. 1950. Bd. 2, Jahrg. 18, p. 33-34, i. e. p. 229-30) **Title tr.:** Geomagnetic observations of the Haudegen Expedition to Northeast Land, 1944-45 (Summary).

Account of instrumentation and difficulties of operations in the filming of registration of geomagnetic elements during the polar night (films from which were later lost); also brief statement of results from Rijpfjord.

**Copy seen:** DGS.

**20509. BAXTER, ALFRED W., Jr.** Climbs from the Klutlan, 1951. (American alpine journal, 1952. v. 8, p. 241-49, plate)

Contains descriptions of the Klutlan Glacier region and account of the ascents of Mt. Bear and Mt. Bona in Alaska near the Yukon border, July 1951.

**Copy seen:** DGS.

**20510. BAXTER, ALFRED W., Jr.** First ascents to St. Elias range. (Sierra Club bulletin, Dec. 1952. v. 37, no. 10, p. 21-28)

Contains accounts of ascents of Mt. Bear (14,850 ft.), Mt. Bona (16,420 ft.), and Mt. Jordan (13,400) on the Alaska side of the St. Elias Mountains, summer 1951, made by R. Gates, J. Lindbergh and the author.

**Copy seen:** DGS.

**20511. BAXTER, DOW V.** Arctic twilight. (Asa Gray bulletin, July 1952. New ser. v. 1, no. 3, p. 203-210, illus.)

Contains an informal account of the author's collecting trip in 1949 to Wiseman, Alaska, about 200 miles north of Fairbanks on the upper Koyukon; the flight thither, the people and life, celebrated by Robert Marshall in his *Arctic village*; the author's activities collecting fungi and identifying trees; notes on the Brooks Range and on some phytogeographic problems. *Copy seen:* DSI-M.

**20512. BAXTER, HAMILTON, and M. A. ENTIN.** Experimental and clinical studies of reduced temperatures in injury and repair in man 3; direct effect of cooling and freezing on various elements of the human skin. (Plastic & reconstructive surgery, May 1948. v. 3, p. 303-334, 105 fig. on 6 plates)

Contains a study on "direct" effect of cold on human skin, at four temperature levels, two of them below the freezing point ( $-4^{\circ}$  F. and  $-108^{\circ}$  F.). The "direct" method consists in exposing split-thickness skin grafts to cold, then transplanting them along with suitable controls to the original donor (or to a different recipient) and following their behavior clinically and microscopically by means of biopsies. Temperatures slightly below freezing did not materially affect the survival of skin grafts up to three weeks of cooling, but even short exposures to  $-4^{\circ}$  F. and  $-108^{\circ}$  F. were not compatible with survival owing to ice crystal formation. The clinical pictures were only understood when correlated with frequent microscopic studies of biopsies. The practical value of the study is that split-thickness skin grafts can be stored up to three weeks at  $32^{\circ}$  F. and still be successfully transplanted. Bibliography (17 items).

*Copy seen:* DLC.

**20513. BAXTER, HAMILTON, and M. A. ENTIN.** Experimental and clinical studies of reduced temperatures in injury and repair in man 4; the effect of cold on vascular elements of human skin. (Plastic & reconstructive surgery, Mar. 1950. v. 5, p. 193-216, 4 text fig., 30 fig. on 3 plates)

Contains a report and discussion of sequelae following cold injury under controlled conditions in man. Effects of three temperature levels were studied ( $65^{\circ}$  to  $50^{\circ}$  F.,  $32^{\circ}$  F.,  $-180^{\circ}$  F.), on normal intact skin, on traumatized skin, and on

pedicles; the clinical and histological picture is presented and analyzed. The main emphasis of the study is on the changes in vascular elements. Suggestions as to clinical management are also offered. Bibliography (36 items).

*Copy seen:* DLC.

**BAXTER, HAMILTON, see also Entin, M. A., & others.** Experimental & clinical studies 2, effect of cold on wound healing. 1948. No. 21676.

**BAXTER, HAMILTON, see also Entin, M. A., & H. Baxter.** Influence rapid warming frostbite in animals. 1952. No. 21677.

**20514. BAY, JENS CHRISTIAN, 1871-** . Tillaeg til "Den danske botaniske literatur fra de aeldste tider til 1880, sammenstillet af Eug. Warming" (Bot. tidsskrift Bd. 12) I, Fra de aeldste tider indtil 1800; II, Fra 1800 til 1880. (Botanisk tidsskrift, 1890. Bd. 17, p. 315-29; (II) 1892-93, pub. 1892. Bd. 18, hefte 2, p. 95-103) *Title tr.:* A supplement to "Danish botanical literature from the oldest times to 1880," compiled by Eug. Warming"...I, From the oldest time to 1800; II, From 1800 to 1880.

Supplement to this bio-bibliographical work of E. Warming, q. v., adding some new names or botanical papers omitted by Warming; includes some works concerning arctic regions.

*Copy seen:* DLC; MH-A.

**BAY, ROLAND, see Bandi, H. G., & J. Meldgaard.** Archaeol. invest. Clavering Ø, NE Greenland 1952. No. 20439.

**20515. BAY-SCHMITH, E.** Versuche über die Schicksche Reaction bei Eskimos in Grönland. (Klinische Wochenschrift, 1929. v. 8, p. 974-76, tables) *Title tr.:* Experiments with the Schick reaction among the Eskimos of Greenland.

An outline of diphtheria epidemics is given including a recent one (1921) apparently introduced into Greenland by a letter from a sick family in Europe. People from isolated and not isolated localities were examined for the Schick test and also bacteriologically. The results indicate that among the Eskimos living in isolated places, Schick-negative individuals do occur. Epidemiologic and limited bacteriological observations strongly suggest this represents a spontaneous development of diphtheria antitoxins.

*Copy seen:* DSG.

**20516. BAYLIS, HARRY ARNOLD, 1889-** . On the ascarids parasitic in seals, with special reference to the genus *Contracaecum*. (Parasitology, 1937. v. 29, p. 121-30, illus.)

*Contains* description of nine species of these parasitic worms collected from a considerable number of seals of the Northern and Southern Hemispheres.

*Copy seen:* DSG.

**20517. BAZETT, HENRY CUTHBERT, 1885-** , and others. Climatic effects on the volume and composition of blood in man. (American journal of physiology, April, 1940. v. 129, p. 69-83, tables, diagrs.) *Other authors:* F. W. Sunderman, F. Doupe, and J. C. Scott.

"Blood volume is increased in the warmth, decreased in the cold. The changes are associated with changes in the same direction both in the total circulating hemoglobin and in the total plasma protein so that at acclimatization there is little change in their concentrations." Bibliography (19 items).

*Copy seen:* DLC.

**20518. BAZETT, HENRY CUTHBERT, 1885-** , and others. Precooling of blood in the arteries, effective heat capacity and evaporative cooling as factors modifying cooling of the extremities. (Journal of applied physiology, Aug. 1948. v. 1, p. 169-82, 5 fig.) *Other authors:* E. S. Mendelson, L. Love, and B. Libet'.

*Contains* a study on cooling of the extremities exposed to low temperatures, as influenced by precooling of blood in the arteries, heat capacity of the tissues and clothing, and evaporative cooling. Precooling of blood produced some paradoxical changes in surface temperatures, both during cooling and rewarming. Heat capacity and the rate of cooling, convective heat loss, etc., are also discussed. Bibliography (16 items).

*Copy seen:* DLC.

**20519. BAZETT, HENRY CUTHBERT, 1885-** . The regulation of body temperature. (In: Newburgh, L. H., ed. Physiology of heat regulation and the science of clothing, 1949. p. 109-192, diagrs., tables)

*Contains* an outline of "a single hypothesis involving the mechanisms of thermal control" with evidence and observations in its favor, included. Following the exposé of the theory (p. 109-127), support to it is offered with regard to the temperature of the various regions of the

body and their regulation; body temperatures at rest, during and after exercise; surface:interior temperature gradient; regulation of heat production and loss; etc. This is followed by sections on the nervous control of body temperature and its centers; the endocrines and temperature control; time sequence in adjustment to cold and to warmth. In this extensive study the author scrutinizes several established, though poorly documented, ideas and his theories are aimed at stimulating new investigations and approaches. Bibliography (171 items).

*Copy seen:* DLC.

**BAZETT, HENRY CUTHBERT, 1885-** , see also Burton, A. C., & others. Slow adaptation in heat exchanges of man. 1940. No. 21040.

**BAZETT, HENRY CUTHBERT, 1885-** , see also Gage, A. P., & others. Practical system of units descript. heat exchange. 1941. No. 22005.

**BAZETT, HENRY CUTHBERT, 1885-** , see Scott, J. C., & H. C. Bazett. Temperature regulation. 1941. No. 25995.

**20520. BAZHANOV, V. S.** Zametki o nekotorykh mlekopitafushchikh basseina r. Penzhiny. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1946. Otdel biol. Novafia seriia 51, vyp. 4-5, p. 91-101, text map) *Title tr.:* Notes on some mammals in the basin of Penzhina River.

*Contains* the author's observation on biology and distribution of 20 species of mammals of the Penzhina region, bordering Kamchatka Peninsula, with some statistical and economic notes (commercial and game animals). Summary in French.

*Copy seen:* MH-Z.

**BAZYRINA, EKATERINA NIKOLAEVNA, 1895-** , see Kostychev, S. P., & others. Sutochnyi khod fotosintez. 1930. No. 23407.

**20521. BEAN, TARLETON HOFFMAN, 1846-1916.** Bibliography of the Salmonidae of Alaska and adjacent regions. (U. S. Fisheries Bureau. Bulletin, 1892, pub. 1894. v. 12, p. 39-49)

*Contains* 152 references arranged chronologically, 1811-92, on the salmon and allied forms of the Pacific Northwest and Alaska.

*Copy seen:* DL.

**THE BEAVER, a magazine of the North,** see Wilson, C. New N. in pictures. 1947. No. 27425.

**BETCHEL-PRICE-CALLAHAN**, see Finnie, R. Canol. 1945. No. 21811.

**20522. BECKER, THEODOR, 1840-1923.** Anmerkungen zu der Gattung *Helophilus* Meig. (1803 und 1822). (Berliner entomologische Zeitschrift, 1910, pub. 1911. Bd. 55, Heft 3-4, p. 213-32) **Title tr.:** Remarks on the genus *Helophilus* Meig. (1803 and 1822).

Contains a critical revision of dipterous genus *Helophilus*, with notes on synonymy, keys to the subgenera and species and descriptions of eleven species, including *H. groenlandicus* and *H. glacialis* native to Greenland and *H. lapponicus* and *H. hybridus* from northern Scandinavia. **Copy seen:** MH-Z.

**20523. BECKER, THEODOR, 1840-1923.** Beitrag zur Dipteren-Fauna von Novaya Zemlja. (Akademija nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1897. t. 2, no. 4, p. 396-404) **Title tr.:** A contribution to Diptera fauna of Novaya Zemlya.

Contains an enumeration of nine dipterous insects, including German diagnoses of seven new species collected in 1896 on Novaya Zemlya by G. G. Jakobson during the expedition of the Zoological Museum of the Academy of Sciences. **Copy seen:** DLC; MH-Z.

**20524. BECKETT, EVA BRADFORD.** When wild flowers paint the tundra. (Beaver, June 1952. Outfit 283, p. 36-38, illus.)

Contains description and photo. illus. of tundra plants in bloom in the region of Churchill. **Copy seen:** CaMAI.

**20525. BECKETT, EVA BRADFORD.** Wild wings over the tundra. (Canadian geographical journal, Oct. 1951. v. 43, p. 170-177, illus.)

Popular account of nesting birds in the Canadian North especially in the Churchill region, illustrated with 20 photographs of nests, eggs or birds. **Copy seen:** DGS; DLC.

**20526. BECKLEY, FRED.** In spirit land. (American alpine journal, 1950. v. 7, p. 441-50)

Contains account of ascents in the peaks near the eastern edge of the Juneau icecap, southeastern Alaska, during the summer of 1949, with especially good detail of the successful climb of Michael's Sword. **Copy seen:** DGS.

**BEDEL, L.,** see Chicherin, T. S. Mémoire sur *Trichocellus*. 1899. No. 21185.

**20527. BEECH, CLIVE.** Is whalemeat a hygienic food? (Ninetynine (London), 1949. v. 8, p. 95)

To encourage whale-meat consumption, the author gives an outline of the animal's feeding, the normal appearance and qualities of whale-meat; means of keeping the meat fresh, etc.

**Copy seen:** DSG.

**20528. BEER, MICHAEL.** Measurements of gravity in the Canadian Arctic and Greenland. (Canadian journal of research, Sept. 1950. Ser. A, v. 28, p. 535-41, illus., sketch map. Reprinted as Canada. Dept. of Mines and Technical Surveys. Dominion observations. Contributions from the Dominion Observatory, Ottawa, v. 1, no. 5)

"Four determinations of gravity were made during the summer of 1948, with pendulum apparatus of the Dominion Observatory, at Goose Bay, Labrador (latitude 53°), Frobisher Bay, Baffin Island (latitude 64°), Resolute Bay, Cornwallis Island (latitude 75°) and Thule, Greenland (latitude 77°), approximately. The anomalies at the two most northerly stations are comparatively small and those at the two other stations, although larger, do not exceed many that have been observed in other parts of Canada. Norgaard's determination for Thule is confirmed by the author. It is anticipated that these determinations, apart from their immediate interest, will serve as useful reference points for future work in the Canadian Arctic."—Author's abstract. **Copy seen:** CaMAI; DGS.

**BEGACHEVA, V. A.,** see Val'ter, O. A., & V. A. Begacheva. Kharakteristika defatelnosti kornevol sistemy. 1950. No. 27029.

**20529. BEGAR, A., and N. SMIRNOV.** Marshrut zoologicheskikh rabot krelsera "Komandor Bering" v 1907 godu v Okhotskom i Beringovom morakh. (Akademija nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1908, pub. 1909. t. 13, p. XLIV-LVI). **Title tr.:** Course of the zoological trip carried out by the cruiser *Commodore Bering* in 1907 in Okhotsk and Bering Seas.

Contains tabulated data on 21 stations established during the cruise, including date, location, bottom samples, brief de-

scription of the work and implements used, and hydrological notes.

**Copy seen:** DLC; MH-Z.

**20530. BEHNKE, ALBERT RICHARD, 1903-**, and **C. P. YAGLOU**. Physiological responses of men to chilling in ice water and to slow and fast rewarming. (Journal of applied physiology, Apr. 1951. v. 3, p. 591-602, tables, diagrs.).

Experiments on two nude subjects immersed in ice water and a third subject dressed in outdoor winter clothing in cold chamber, showed that skin temperatures fell abruptly and that pains were felt all over body during transitory period of vasoconstriction. After initial rise, rectal, gastric and oral temperatures fell continuously during chilling period despite violent shivering and sixfold increase in metabolic rate. Need for rapid rewarming to prevent a precipitous after-drop of deep temperatures, and associated distress, is imperative.—From author's summary. Bibliography (17 items).

**Copy seen:** DLC.

**BEHNKE, ALBERT RICHARD, 1903-**, see also Killian, H. Cold injuries German exper. World War II. 1952. No. 23249.

**20531. BEĬ-BIENKO, GRIGORIĬ ĬAKOVLEVICH, 1903-**. A monograph of the genus *Bryodema* Fieb. (Orthoptera, Acrididae) and its nearest allies. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1930. t. 31, vyp. 1, p. 71-126, illus., plates 18-20).

Contains a monographic treatment of the orthopterous genus *Bryodema* (20 species and races) and allied new genera *Angaracris* (two species) and *Uvaroviala* (one species), with keys to the genera, species and subspecies, monographic descriptions (seven species and four subspecies described as new), synonymy, lists of specimens with localities and data on distribution. Includes at least one subsp. *Bryodema tuberculatum dilutum* native to the Yakutsk region (64° N.) eastern Siberia.

**Copy seen:** DLC; MH-Z.

**20532. BEĬ-BIENKO, GRIGORIĬ ĬAKOVLEVICH, 1903-**, and **L. L. MISHCHENKO**. Saranchevye fauny SSSR i sopredel'nykh stran, chast' 1-2. Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1951. 667 p. illus. (1318 fig.) (In: Akademiia nauk SSSR. Zoologicheskii institut. Opredeliteli po faune SSSR. No.

38, 40) **Title tr.:** The locust fauna of the U.S.S.R. and adjoining countries.

Contains (in the introductory part, p. 5-82) characteristics of the superfamily Acridoidea (Orthopterans), morphology, biology, ecology, and peculiar features of this fauna in the U.S.S.R.; its economic importance (locusts as crop pests); systematics and classification and literature (ca. 200 items). In the special part (p. 83-640) are tables for the determination of the subfamilies, genera and 833 species (481 in the U.S.S.R.) including many species native to northern regions of European Russia and Siberia, northern Scandinavia and Finland. Indices of Russian and Latin names are appended.

**Copy seen:** DLC.

**BEĬ-BIENKO, GEORGIĬ ĬAKOVLEVICH, 1903-**, see also Miram, E. F. Prâmokrylye Ĭakutii. 1933. No. 24378.

**20533. BEIRNE, BRYAN P.** The nearctic species of *Oncopsis* (Homoptera: Cicadellidae). (Canadian entomologist, Aug. 1951. v. 83, p. 185-94, illus.).

Contains notes on taxonomy and synonymy of leaf-hoppers, three species of which occur in Yukon Territory, Northwest Territories, and northern Quebec. Bibliography (18 items).

**Copy seen:** DSI-M.

**20534. BEKE, ÖDÖN.** Ein Possessivkompositum in den finnisch-ugrischen Sprachen. (Finnisch-ugrische Forschungen, 1913. Bd. 13, p. 23-32) **Title tr.:** A possessive composite in the Finno-Ugric languages.

Contains note on the composite meaning "full" as the second part of a word in Vogulian, Ostyak, Zyryan, Lapp and other Finno-Ugric languages.

**Copy seen:** DLC; InU.

**20535. BEKE, ÖDÖN.** Zur Kasuslehre des Finnischugrischen und Indogermanischen. (Indogermanische Forschungen, 1928. Bd. 46, p. 230-47) **Title tr.:** On the rules for cases in the Finno-Ugric and Indo-European languages.

Contains an investigation of the dative, instrumental, and accusative cases in the Indo-European languages juxtaposed with those in Finno-Ugric, as a contribution towards solution of the problem of linguistic affiliations between Finno-Ugric and Indo-European peoples.

**Copy seen:** InU.

**20536. BEKE, ÖDÖN.** Zur Komparativbildung in den finnisch-ugrischen und

indogermanischen Sprachen. (Indogermanische Forschungen, 1928. Bd. 46, p. 221-29) **Title tr:** On the formation of comparatives in the Finno-Ugric and Indo-European languages.

**Contains** results of an historico-linguistic investigation: in several Finno-Ugric languages the comparative is made by very primitive linguistic means; later several suffixes were developed and used for the same purpose; however, one of these *-mp(i)-*, can be very old and might be compared with the Indo-European suffixes *-ero-* and *-tero-*.

**Copy seen:** InU.

**20537. BEKKER-MIGDISOVA, E. E.** Iskopaemye permskie tsikady semelstva Prosbolidae s reki Soñany. (Akademiia nauk SSSR. Paleontologicheskii institut. Trudy, 1940. t. 11, vyp. 2, p. 5-79, illus., sketch maps) **Title tr:** Fossil Permian Cicadas of the family Prosbolidae from the Soyana River.

**Contains** a comparative study of the fossil fauna of the insects (fam. Prosbolidae) from Permian deposits in the basin of the Soyana River (left tributary of Kuloy River at about 65°39' N. 42°50' E. in Arkhangel'sk region) and Tikhiye Gory in the Kama River valley (about 58° N.), with a revision of 51 species, including descriptions of a new genus, 22 new species and eleven new varieties, and a discussion of the family Prosbolidae and its phylogenetical relation with other groups of Homoptera Auchenorrhyncha. *See also* I. A. D. Zekkel (1940) for companion paper. Summary in English.

**Copy seen:** DLC; MH-Z.

**20538. BEKLEMISHEV, K. V.** Pitanie *Nereis pelagica* i funktsional'noe znachenie ego cheljustnogo apparata. (Akademiia nauk SSSR. Doklady. Novaya seriia, 1950. t. 73, no. 5, p. 1093-95, illus.) **Title tr:** Feeding of *Nereis pelagica* and functional importance of its jaw apparatus.

**Contains** the study (carried out on the Murman coast) of the content of the intestines of a marine worm, *Nereis pelagica*, data on its eating habits and the structure and function of its chewing apparatus. **Copy seen:** DLC; MH-Z.

**20539. BELAIA, N. K. and M. F. KIRIK.** K voprosu o lechenii otmorozhenii. (Khirurgiia, Apr. 1949. t. 19, no. 4, p. 79-80) **Title tr:** The question of treatment of frostbite.

**Contains** a report based on 426 cases of

frostbite observed during 1941-43. The material is analyzed as to degree of freezing, region of the body, therapy (6 types), amputation, etc. Active, surgical interference is claimed to be the basic method in frost injuries.

**Copy seen:** DLC.

**20540. BELDING, H. S., and others.** Analysis of factors concerned in maintaining energy balance for dressed men in extreme cold; effects of activity on the protective value and comfort of an Arctic Uniform. (American journal of physiology, Apr. 1947. v. 149, p. 223-39, 3 fig., 8 tables). **Other authors:** H. D. Russell, R. C. Darling, and G. E. Folk.

**Contains** a study on what fraction of total energy produced at various levels of activity is lost through sweating, convection and radiation from the skin, warming the inspired air and vaporizing the water in the lungs; also, an assessment of a suit of arctic clothing as a thermal barrier under various conditions of use, and developing a way of predicting under what circumstances this clothing would prove comfortably warm. Two subjects dressed in an Arctic Uniform were studied. Bibliography (19 items).

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**20541. BELDING, H. S.** Laboratory and field studies: Protection against dry cold. (In: Neuburgh, L. H., ed. Physiology of heat regulation and the science of clothing, 1949. p. 351-67, illus., diagrs., tables)

**Contains** an analysis of factors, personal and environmental, required for thermal protection (body activity and length of exposure versus temperature, wind, altitude, etc.) followed by chapters on methods evaluating thermal insulation of clothing, and factors affecting this property. Problems encountered in arctic weather during rest, sleep, exercise, etc., are emphasized. Bibliography (8 items).

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**20542. BELDING, H. S., and others.** Thermal responses and efficiency of sweating when men are dressed in arctic clothing and exposed to extreme cold. (American journal of physiology, Apr. 1947. v. 149, p. 204-222, 3 fig., 8 tables). **Other authors:** H. D. Russell, R. C. Darling, and G. E. Folk.

**Contains** a study of factors involved in heat balance in men exposed to extreme cold, particularly of the role played by the sweating mechanism. The amount of sweating, its efficiency for body cool-

ing and the relationship between sweating and skin temperature, internal temperature, and comfort, were studied in heavily dressed men. Data are offered on individual variations in sweating under identical conditions; week-to-week variability in sweating in the same individual; sweat uptake by various layers of clothing under diverse conditions, etc. The clothing used was the so-called "Arctic Uniform" components of which are given (with weights) on p. 206. Bibliography (12 items). **Copy seen:** DLC.

**BELDING, H. S.,** *see also* Ames, A., & others. Study of methods of rewarming men. 1948. No. 20181.

**BELDING, H. S.,** *see also* National Research Council. Subcommittee on Clothing. Clothing test methods. 1945. No. 24577.

**BELDING, H. S.,** *see also* Russell, H. D., & others. Physiol. reactions men working in cold. 1946. No. 25721.

**20543. BELIAEV, G. M.** Osmoregulyatornye sposobnosti nizshikh rakoobraznykh materikovykh vodoemov. (Vsesoŭznoe gidrobiologicheskoe obshchestvo. Trudy, 1950. t. 2, p. 194-213, diagrs., tables) **Title tr.:** Osmo-regulatory capacity in lower crustaceans of continental water basins.

*Contains a study on the total osmotic concentration and the osmo-regulatory capacity of the blood, determined by micro-cryoscopic methods. Nine forms of crustaceans were examined, several of them from the eastern Murman. Survival rates in fresh and salt water with and without food, osmotic and other reactions to changed salinity are included. Bibliography (32 items).*

**Copy seen:** DLC; MH-Z.

**20544. BELIAEV, G. M.** Osmoticheskoe davlenie polostnoi zhidkosti vodnykh bespozvonochnykh v vodoemakh razlichnoi solenosti. (Vsesoŭznoe gidrobiologicheskoe obshchestvo. Trudy, 1951, t. 3, p. 92-139, illus., diagrs., tables 1-16) **Title tr.:** Osmotic pressure of tissue fluids of the aquatic invertebrates in water basins of variable salinity.

*Contains the results of a physiological and ecological study of osmotic regulation in aquatic invertebrates, based on literature data and on the author's observations on the coast of Barents, White*

and Baltic Seas in 1946-48. Indicators of osmotic pressure are tabulated for various species in normal sea water and in the basins of brackish water (10 percent - 25 percent salinity); 18 tables of data for various seas and coastal water basins are included, also diagrams showing the relation between fluid depression of invertebrates and the depression of the water of the basin.

**Copy seen:** DLC; MH-Z.

**20545. BELIAKOV, M. F.**

Lazulite from a quartz vein in the region of Mount Sura-Iz in the near Polar Urals. (Akademiia nauk SSSR. Comptes rendus. (Doklady), 1945. nouv. ser., v. 47, no. 2, p. 124-26).

"Lazulite is recorded for the first time from quartz veins in the U.S.S.R. [on western slope of Ural range near 65° 10' N. 66° 29' E.], although in other countries it occurs most frequently in that situation. The samples show typical characteristics except that the pleochroism is unusually weak. Some of the lazulite has sufficiently good color and relative stability to be used in jewelry."—Geological Society of America, *Bibliography and index of geology*, 1945-46. v. 11, p. 22.

**Copy seen:** DLC.

**20546. BELIANKIN, DMITRIĬ STEP. ANOVICH, 1876-** Contribution à la chimie des feldspaths. (Akademiia nauk SSSR. Izvestiia. Seria 7. Otdelenie fiziko-matematicheskikh nauk, 1929, no. 6, p. 571-84) **Title tr.:** A contribution to the chemistry of feldspar.

*Contains a chemical study of the feldspars from various regions of Russia, including an analysis of plagioclase from Medvedka Mountain, Murmansk coast, Kola Peninsula.*

**Copy seen:** DLC; MH.

**20547. BELIAVSKIĬ, F.** Murmanskii kraĭ. (Khoziaĭstvo Severo-zapadnogo kraĭa, Mar. 1926. v. 2, no. 3, p. 120-31) **Title tr.:** The Murman region.

*Contains a sketch of Kola Peninsula from the economic viewpoint: its relief, soil and climate, agriculture, forest and hunting industries; mining, fishing and sealing.*

**Copy seen:** DLC.

**20548. BELIKOV, I. F.** Vliianie edaficheskikh faktorov na formu i kachestvo sakharnoi svekly v usloviakh Primor'ia. (Akademiia nauk SSSR. Dal'nevostochnyi filial. Vladivostok. Gornotaezhnaia stantsiia. Trudy, 1946, t. 5, p. 217-31,

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illus., tables. **Title tr.:** The influence of edaphic factors on the form and quality of sugar beets under conditions of the Primorye.

**Contains** a report on studies conducted during 1936-41 on the effect of soil factors on the sugar beet, particularly the shape of beets. The shape is further studied in relation to sugar content, certain forms having been found superior to others in this respect. The local soil factors, leading to a technologically desirable crop (i. e. a crop rich in sugar and poor in cellulose) are analyzed. These investigations were carried out at the Mountain-Taiga station in Maritime Province (Primorye) and are of importance to arctic agriculture. Bibliography (5 items). **Copy seen:** DLC.

**20549. BELITŠER, V. N.** Étnograficheskaia ékspozitsiia v kraevedcheskom muzei Komi ASSR. (Sovetskaiia étnografiia, 1946. no. 4, p. 222) **Title tr.:** An ethnographical exposition at the regional museum of Komi ASSR.

**Contains** description of local (Zyryan) cultural objects on exhibit at the museum at Syktyukar (62° N. 51' E.); agricultural implements, hunters' equipment, models of dwellings, clothing, dishes, folk art, etc. **Copy seen:** DLC.

**20550. BELITŠER, V. N.** Narodnoe izobrazitel'noe iskusstvo komi. (Akademiia nauk SSSR. Institut étnografii. Kratkie soobshcheniia, 1950. t. 10, p. 15-28, 8 illus.) **Title tr.:** Representational folk art of the Komi.

**Contains** an account of the ornaments embroidered by Zyryans (Komi) on garments, caps, mittens, woven belts, etc.; based on material collected by the author, who took part in the expeditions organized by Institute of Ethnography in 1946-48, and explored the regions of the rivers Vychegda, Sysola and Vym' (62° N. 50° E.). **Copy seen:** DSI.

**20551. BELIZIN, V. I.** Orekhovorki (Hymenoptera Cynipidae) fauny SSSR i soprodel'nykh stran. (Entomologicheskoe obozrenie, 1951. t. 31, no. 3-4, p. 566-74) **Title tr.:** Gall-flies (Hymenoptera, Cynipidae) of the fauna of the U.S.S.R. and adjoining countries.

**Contains** description of 19 gall-flies from various regions of the U.S.S.R., including *Anacharis immunis* and *Aegilips nitidula* native to the Kola Peninsula and *Aegilips punctatus* n. sp. from Yakut A. S. S. R. **Copy seen:** MH-Z.

**20552. BELKIN, A. LEO.** Die wirkliche Kältepollage im Norden. (Polarforschung, 1948, pub. 1950. Bd. 2, Jahrg. 18, p. 44, i. e. p. 240) **Title tr.:** The true position of the cold pole in the North.

Note on Oimekon (Oymyakon); 63°15' N. 143°12' E., showing it to be colder than either Verkhoyansk or Yakutsk.

**Copy seen:** DGS.

**20553. BELKIN, JOHN NICHOLAS, 1913-** A revised nomenclature for the chaetotaxy of the mosquito larva (Diptera: Culicidae). (American midland naturalist, Nov. 1950. v. 44, p. 678-98, incl. 2 plates)

"A revised uniform numerical nomenclature for the chaetotaxy of the fourth instar mosquito larva is proposed. It can be applied uniformly to all members of the subfamily Culicinae. 193 pairs or groups of hairs are included. Only the hairs of the mouthparts and the midventral, dorsal and lateral hairs of the culicine siphon are not taken into consideration."—From author's summary.

**Copy seen:** DGS; DSI-M.

**BEL'KOV, I. V.,** see Chumakov, A. A., & others. Novoe mestorozhdenie stenstrupina. 1947. No. 21219.

**BELL, D. M.,** see Kark, R. M., & others. Observ. mobile arctic force. Health. 1948. No. 23138.

**20554. BELL, LUTHER G., and others.** Frostbite in Korean casualties. (U. S. Armed Forces medical journal. Jan. 1952. v. 3, No. 1, p. 35-42) **Other authors:** Leroy H. Stahlgren, and Bernard D. Sherer.

**Contains** an analysis of factors which caused high incidence and severity of frostbite among U.S. troops during a retreat in Korea, the main factors being exhaustion, wetness of skin due to accumulation of perspiration in waterproof boots, and delay of recognition and treatment. Nearly 50 per cent of 150 patients studied, experienced no symptomatic evidence of frostbite; residual symptoms were present in 95 per cent of the series but were not incapacitating. Because of the military conditions, initial treatment began only on average of five and one-half days after injury, and was inadequate. Details of late treatment, significant losses of tissue, etc., are also given. **Copy seen:** DSG.

**20555. BELOGORSKIĬ, B., and S. S. ZENIN.** Polūs nash! S predisl. I.

Spirina, [nauch. red., karty i prilozheniia N. N. Zubova] Moskva, izd-vo detskoi lit-ry, 1937. 263 p. illus., ports., maps (1 fold.) **Title tr.:** The Pole is ours! With foreword by I. Spirin, scientific editing, maps and additions by N. N. Zubov.

Book written for youth giving an account of the air expedition to the North Pole in 1937.

**Copy seen:** DLC.

**BELMONT, ARTHUR D.,** see Matthes, F. E., & A. D. Belmont. Glacial anticyclone theory, pt. 2. 1950. No. 24236.

**20556. BELONOVSKIĬ, P. D.** O metode professora Delcha. (Problemy Arktiki, 1944, pub. 1945, no. 1, p. 149-56, tables, diagrs.) **Title tr.:** On the method of Professor Delch.

Contains discussion and suggestions of improvements of Prof. A. N. Delch's method of fixing a ship's position in the open sea by observations of the sun at an interval of 15-20 minutes, in preference to the method of position fixing by the current which requires at least two hours' time.

**Copy seen:** DGS.

**20557. BELOPOL'SKIĬ, L. O.** Al'bom-opredelitel' ptits Barentsova moria; tablitsy i risunki N. N. Kondakova. Lenin-grad, Izd. "Murmannyba", 1938. 32 p. col. plates. (Gosudarstvennyi zapovednik po gage i ptich'im bazaram "Sem' ostrovov") **Title tr.:** Album and guide to the birds of the Barents Sea; plates and illustrations by N. N. Kondakov. (Seven Islands state eider sanctuary and bird bazaar).

Contains colored plates of 18 aquatic birds native to Barents Sea, descriptions of 26 species for a quick determination and three lists of (1) birds occurring in the bays and harbors, (2) rare birds, and (3) migratory birds of passage.

**Copy seen:** MH-Z.

**20558. BELOPOL'SKIĬ, L. O.** Parnokopytnye Anadyrsko-Chukotskogo kraia (Artiodactyla, Mammalia). (Akademiia nauk SSSR. Zoologicheskii institut. Trudy, 1932, t. 1, p. 181-86, table, fold. map) **Title tr.:** Cloven-footed animals of the Anadyr-Chukotsk district (Artiodactyla, Mammalia).

Contains description of four species of wild paired-hoofed animals. Their scarcity, as compared with other regions is stressed. Summary in German.

**Copy seen:** DLC.

**20559. BELOPOL'SKIĬ, M. P., and O. B. MAKSIMOV.** K izucheniiu pechenoch

nykh zhirov tikhoookeanskoĭ treski. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1936. No. 18, p. 164-68) **Title tr.:** Contribution to the knowledge of liver fats of cod from the Pacific Ocean.

Contains physico-chemical analyses of liver oil of codfishes from various seas of the Pacific, including the Bering Sea and Okhotsk Sea.

**Copy seen:** MH-A.

**20560. BELOPOL'SKIĬ, M. P., and O. B. MAKSIMOV.** Kitovye zhiry. (Rybnoe khoz'fal'stvo Dal'nego Vostoka, 1934, no. 1-2, p. 118-25, tables) **Title tr.:** Sperm oils.

Contains a detailed physical and chemical analysis of whale oils from different parts of the body and organs of over half-a-dozen species. Bibliography (about 30 items).

**Copy seen:** DLC.

**20561. BELOPOL'SKIĬ, M. P.** Zhir belogo i okhotskogo burogo medvedia. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1935. No. 11, p. 51-55) **Title tr.:** The fat of the white and the Okhotsk brown bear.

Contains physico-chemical analyses of the fat of the white (*Ursus maritimus*) and Okhotsk brown bear (*U. piscator*), occurring in Okhotsk and Kamchatka regions and comparison with the fat of the Chukchi Sea polar bear (*Thalassarcus maritimus marinus*).

**Copy seen:** MH-Z.

**20562. BELOV, M. I.** Istorieskoe plavanie Semena Dezhneva. (Vsesoiuznoe geograficheskoe obshchestvo. Izvestiia, 1949. t. 81, no. 5, p. 459-72) **Title tr.:** The historical voyage of Semen Dezhnev.

Contents of a lecture held on the tercentenary of Dezhnev's voyage from the Kolyma to the Anadyr' in 1648, rounding the northeast tip of Siberia (East Cape) which now bears his name. Attention is given here mainly to the problems of preparation and realization of the voyage in the light of new documents discovered in the files of the Yakut district administration. Bibliography (34 items).

**Copy seen:** DLC.

**20563. BELOV, M. I.** Novoe o pokhodakh Nikity Shalaurova. (Vsesoiuznoe geograficheskoe obshchestvo. Izvestiia, 1952. t. 84, vyp. 4, p. 426-27) **Title tr.:** New information on the voyage of Nikita Shalaurov.

Contains an abstract of a report by

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M. I. Belov to the historical section of the All-Union Geographical Society on April 14, 1952, giving details of his finding the "Delo" ("Transactions") of Shalaurov, with petitions and detailed description of the Chukotsk Peninsula and its inhabitants. The documents throw much light on Shalaurov's expeditions in the 1750's and 1760's in efforts to find a northeast passage to the Pacific. His significance as the first to describe and map Chaunskaya Guba is also stressed.  
**Copy seen:** DLC.

**20564. BELOV, M. I.** Sushchestvovali li "Zemlia Andreeva"? (Vsesoiuznoe geograficheskoe obshchestvo. Izvestiia, 1952. t. 84, vyp. 5, p. 458-77, illus., map) **Title tr.:** Did "Andreev Land" ever exist?

Contains a critique of an article N. N. Zubov (published in *Krasnyi flot* (291/4013) Dec. 1951) which was based on a copy of Stepan Andreev's "journal" for 1764 and on reports recently discovered by K. S. Badigin. On the basis of these same documents, also Andreev's "journal" for 1763, Belov reconstructs in detail Andreev's journeys, in the East Siberian sea north of the Indigirka River mouth (roughly 70°-74° N. and 151°-166° E.), intercalating the account with ample quotations from the documents. Admitting the frequent lack of clarity due to want of precise, technical terminology in Andreev's writings, Belov denies that he was ignorant and concludes that he traveled northeast from Chetyrekhtolbovoy (Four Pillars) Island in the Medvezh'i (Bear) Islands group, traveled considerably less distance than reported, and that what he actually saw were hummocks of ice (torosy), which he mistook for land. Andreev's reports of 1763 and 1764 are given in appendices (p. 473-77), and the scheme of his travels on the fold. map. Bibliographical footnotes.  
**Copy seen:** DLC; MH-Z.

**20565. BELOV, N.** Proizvodstvenno-tekhnicheskaiia propaganda na lesopil'nykh predpiatiiakh Severa. (Lesnaia promyshlennost', Aug. 1952. v. 12, no. 8, p. 30-31) **Title tr.:** Technical production propaganda on the forest cutting concerns of the North.

Contains an account on the quantitative and qualitative advances in the timber production of the Severoles Trust. Increases (mostly expressed in per cent) over the previous years are quoted as well as technical advances in cutting equip-

ment, transport, manufacture of prefabricated houses, etc. Also listed are technical courses in various branches of the trade, with number of persons attending, duration of courses, etc.; technical-educational connections with forestry schools; technical advances in handling and transportation; top achievements of brigades and individuals; organization; technical publications, etc.

**Copy seen:** DLC.

**20566. BENANDER, PER, 1884-** . Anmärkningsvärdare fjärilflynd. (Entomologisk tidskrift, 1923. Årg. 44, häft 2, p. 162-66) **Title tr.:** Noteworthy finds of butterflies.

Contains a list of butterfly names with localities, dates of the find and occasional notes on habitat, arranged by provinces; includes 15 species from Swedish Lapland.

**Copy seen:** MH-Z.

**20567. BENANDER, PER, 1884-** . Die Coleophoriden Schwedens. (Opuscula entomologica, 1938, Bd. 3, häft. 3-4, p. 107-124; 1939, Bd. 4, häft. 1-2, p. 30-110, plates 1-8) **Title tr.:** Coleophoridae of Sweden.

Contains a critical revision of Swedish species of lepidopterous family Coleophoridae, with a historical survey of the study of this very difficult family, notes on some species and their names, data on morphology and biology, host plants of caterpillars of coleophorids, arranged by plant families (Bd. 4, p. 30-34), tables for the determination of imagines of the genera and species of the genus *Coleophora*, p. 34-44, an enumeration of one species of *Augasma*, one of *Metriotes* and one hundred of *Coleophora* with descriptions of nine new species, critical notes and data on biology, ecology and geographic distribution; includes *C. glitzella*, *C. pappiferella* and *C. murinipenella*, native to Swedish Lapland; bibliography (88 items).

**Copy seen:** MH-Z.

**20568. BENANDER, PER, 1884-** . Förteckning över Sveriges småfjärilar. Catalogus insectorum Sueciae, VI. Microlepidoptera. (Opuscula entomologica, 1946. Bd. 11, häft. 1-2, p. 1-82, text map) **Title tr.:** Catalog of Swedish small lepidoptera. Insect catalog of Sweden, VI. Microlepidoptera.

Contains a systematic list of 1402 small lepidoptera of Sweden, with tabulated data on their distribution in 30 geographic regions, including Swedish Lap-

land and Norrbotten; explanatory notes on 113 species (marked by asterisk in list, p. 78-80), and a list of 28 lepidoptera, previously considered as valid Swedish species but later excluded from the Lepidoptera fauna of Sweden. For other parts, see *Catalogus insectorum Sueciae*, I- .

**Copy seen:** MH-Z.

**20569. BENANDER, PER, 1884-** . Om några svenska *Acalla* arter. (Entomologisk tidskrift, 1934. Årg. 55, häft. 2, p. 122-28, illus.) **Title tr.:** On some Swedish *Acalla* species.

**Contains** critical notes on nine Lepidoptera of the genus *Acalla*, including a German description of *A. ferrumixtana*, n. sp. occurring in Sorsele parish, Swedish Lapland, with data on its larva, host plants (*Salix* and *Betula nana*) and biology.

**Copy seen:** MH-Z.

**20570. BENANDER, PER, 1884-** . Revision von Zetterstedts lappländischen Microlepidoptera. (Opuscula entomologica, 1940. Bd. 5, häft. 2-4, p. 49-65, illus.) **Title tr.:** Revision of Zetterstedt's Lapland Microlepidoptera.

**Contains** a critical revision of small butterflies and moths of Lapland collected by J. V. Zetterstedt and described in his *Insecta lapponica*, 1840, q. v., with a list of over 150 species, critical notes, synonymy and distribution in Lapland; bibliography (29 items).

**Copy seen:** MH-Z.

**20571. BENANDER, PER, 1884-** . Sveriges Lithocolletider (Gracilariidae) (Opuscula entomologica, 1944. Bd. 9, häft. 3-4, p. 79-137, illus.) **Title tr.:** Lithocolletidae (Gracilariidae) of Sweden.

**Contains** a critical revision of Swedish species of small butterflies of the family Lithocolletidae, with taxonomic notes in the German introduction ("Vorbemerkungen", p. 79-87), a survey of larvae and their host plants, keys to the genera and species, descriptive notes on 89 species, including two new to the science and a few native to Swedish Lapland; bibliography (30 items).

**Copy seen:** MH-Z.

**20572. BENANDER, PER, 1884-** . Zur Kenntnis dreier *Argyroplöce*-Arten. (Entomologisk tidskrift, 1926. Årg. 47, häft. 1, p. 43-47, illus.) **Title tr.:** A contribution to the knowledge of three *Argyroplöce* species.

**Contains** critical notes on three species of lepidopterous genus *Argyroplöce*, in-

cluding *Apotomis (Argyroplöce) moestana*, native to Abisko region, Torne Lappmark, Sweden.

**Copy seen:** MH-Z.

**20573. BENGTTSSON, SIMON FRED. RIK, 1860-1939.** An analysis of the Scandinavian species of Ephemera described by older authors. (Arkiv för zoologi, 1912. Bd. 7, no. 36, p. 1-21)

**Contains** a critical revision of 77 Scandinavian ephemera described by older authors with modern interpretation of these species; the geographic distribution is often omitted but at least three species are from the Swedish Lapland; bibliographical footnotes.

**Copy seen:** MH-Z.

**20574. BENGTTSSON, SIMON FRED. RIK, 1860-1939.** Bemerkungen über die nordischen Arten der Gattung *Cloeon* Leach. (Entomologisk tidskrift, 1914. Årg. 35, häft. 3-4, p. 210-20) **Title tr.:** Notes on northern species of the genus *Cloeon* Leach.

**Contains** descriptive notes on imagines, larvae and eggs of three northern species of ephemera of genus *Cloeon*, including *C. praetextum* occurring in Swedish Lapland.

**Copy seen:** MH-Z.

**20575. BENGTTSSON, SIMON FRED. RIK, 1860-1939.** Neue Ephemeriden aus Schweden. (Entomologisk tidskrift, 1912. Årg. 33, häft. 1-2, p. 107-117) **Title tr.:** New Ephemeridae from Sweden.

**Contains** descriptions of one new genus and nine new species of ephemera from Sweden, including four species native to Swedish Lapland. **Copy seen:** MH-A.

**20576. BENGTTSSON, SIMON FRED. RIK, 1860-1939.** Weitere Beiträge zur Kenntnis der nordischen Eintagsfliegen. (Entomologisk tidskrift, 1917. Årg. 38, häft 2, p. 174-94) **Title tr.:** Further contributions to the knowledge of northern ephemera.

**Contains** descriptions of 19 species and some varieties of northern ephemera (imagines and larvae), including seven new species: *Ephemerella torrentium* and *Baëtis subalpinus* n. spp. are native to Swedish Lapland. **Copy seen:** MH-Z.

**20577. BENGTTSSON, SIMON FRED. RIK, 1860-1939.** Undersökningar öfver äggen hos Ephemeriderna. (Entomologisk tidskrift, 1913. Årg. 34, häft. 2-4, p. 271-320, illus., plates 1-3) **Title tr.:** Investigation of the eggs of Ephemeridae.

**Contains** detailed morphological de-

scriptions of eggs of 24 ephemerids, including *Acentrella lapponica* and *Ameletus alpinus* n. sp., native to Torne Lappmark, northern Sweden; the new species is described in the footnote, p. 303-304.

**Copy seen:** MH-Z.

**20578. BENICK, GEORG.** Neue nordische Atheten (Col. Staph.). (Norsk entomologisk tidsskrift, 1938, pub. 1939. Bd. 5, hefte 3, p. 100-107) **Title tr.:** New northern species of *Atheta*.

Contains diagnoses of four new species of rove beetles: *Atheta strandi*, *A. drusilloides*, *A. spatuloides* and *A. sjöbergi*, native to northern Norway and Swedish Lapland.

**Copy seen:** MH-Z.

**20579. BENICK L.** Ein neuer nordischer *Nestus* (Col. Staph.) *Stenus strandi* nov. spec. (Norsk entomologisk tidsskrift, 1937. Bd. 4, hefte 4, p. 183-88, illus.) **Title tr.:** A new northern *Nestus* (Col. Staph.) *Stenus strandi* n. sp.

Contains a diagnosis of a new rare beetle, *Stenus strandi* n. sp., with data on its distribution, including northern Norway, Swedish and Finnish Lapland, and Dudinka on the lower Yenisey in western Siberia; and a table for the determination of three northern species of *Stenus*.

**Copy seen:** MH-Z.

**20580. BENICK, L.** Über einige *Stenus*-Arten Fennoscandias. (Notulae entomologicae, 1934, v. 14, no. 1-2, p. 23-30, illus.) **Title tr.:** On some *Stenus* species in Fennoscandia.

Contains a taxonomic study of five Fennoscandian species of coleopterous genus *Stenus*, including a diagnosis of *S. receptus* n. sp. found in Karesuando, Swedish Lapland, and critical notes on three other species native to Swedish and Finnish Lapland.

**Copy seen:** MH-Z.

**BENJAMIN, JULIEN E.,** see Gendel, B. R., & J. E. Benjamin. Paroxysmal cold hemoglobinuria. 1946. No. 22057.

**20581. BENNETT, W. J.** Transportation in the uranium areas of the Northwest Territories. (Canadian mining and metallurgical bulletin, Dec. 1952. v. 45, no. 488, p. 717-20)

Contains an address on water and air transportation and problems in connection with climate, aids to navigation, water levels, portages and volume of freight, in the Mackenzie valley. Author's remarks have special reference to the Northern Transportation Co., a sub-

siary of Eldorado Mining and Refining, Ltd., which operates between Waterways, Alberta and Kittigazuit, at the mouth of the Mackenzie River.

**Copy seen:** DGS.

**20582. BENNETT, W. J.** Water transportation in the Northwest Territories. (Precambrian, Apr. 1950. v. 23, no. 4, p. 8-13, illus., map)

Contains address delivered before the Alberta and Northwest Chamber of Mines, Edmonton, Jan. 13, 1950, by the president of Northern Transportation Co. (1947) Ltd. Analysis of freight costs; remarks on extent of operations from the Athabaska River to the mouth of the Mackenzie River, on varied water conditions, distances and season, and on the company's long-term proposals and financial situation.

**Copy seen:** DGS.

**20583. BENNINGHOFF, WILLIAM S.** Interaction of vegetation and soil frost phenomena. (Arctic, Mar. 1952. v. 5, p. 34-44, incl. illus. map, diagrs.)

"The influence of soil frost on plants and of plants on soil frost is discussed. Permafrost can not be penetrated by living roots, and if at a shallow depth, it imposes limitations on the anchoring functions of tree roots in shallow soils. Frozen ground inhibits lateral movement of soil water and prevents downward percolation. Sites for vegetation are destroyed by progressive thawing of permafrost. Soil surfaces are in places rendered unavailable to plants because of soil stirring, sorting, and transport by frost action as manifested by polygons, pitted tundra, and soil stripes. Plants affect soil frost phenomena by exercising controls on the thermal regime of the soils. Vegetation shields the soil from maximum penetration of heat by shading, decreasing air circulation, retaining moisture in and just above the soil, and by intercepting rain. It is shown that mosses provide a cooling effect, because of low thermal conductivity, large water-holding capacity, and high hygroscopicity. Extensive root systems tend to impede downward percolation of water, thus restricting thaw. Applications of soil frost predictions, on agriculture, forestry, and construction are considered, and future investigations are proposed."—SIPRE. Bibliography (31 items).

**Copy seen:** DLC.

**20584. BENNINGHOFF, WILLIAM S.** Use of aerial photographs in mapping

vegetation and surficial geology in sub-arctic regions. (Photogrammetric engineering, June 1950. v. 16, p. 428-29)

"Aerial photographs are used for orientation and guides to poorly mapped areas, planning the ground sampling of areas, plotting sample localities, and interpretation of areas remote from sampled areas. The recent or present occurrence of permafrost can be detected by polygonal patterns in soils and vegetation, sinkholes, fallen trees, and micro-relief forms."—SIPRE.

*Copy seen:* DLC.

**20585. BENSIN, BASIL M.** Agro-climatological investigations in the permafrost region of the Tanana Valley, Alaska. (*In:* Alaskan Science Conference . . . 1950. Selected papers, 1952. p. 197-218 incl. tables, maps, diagrs.)

"Basic agro-climatological data of the Tanana Valley region obtained during six years of observation and experiments are presented. Soil temperature variations at various positions in a hillside field and bottomland of the station were recorded. A large temperature variation was obtained which is correlated with the moisture content of the soil."—SIPRE. Microclimatic factors are discussed in relation to agricultural land use; recommendations made for coordinating agro- and microclimatological and permafrost investigations. *Copy seen:* DAI; DLC.

**BENSIN, BASIL M.,** *see also* Litzenberger, S. C., & B. M. Bensin. Edda barley Alaska. 1951. No. 23953.

**BENSIN, BASIL M.,** *see also* Litzenberger, S. C., & B. M. Bensin. Golden Rain oats. 1951. No. 23954.

**BENSIN, BASIL M.,** *see also* Litzenberger, S. C., & others. Recommended varieties of farm crops. 1950. No. 23955.

**BENSON, CARL S.,** *see* Minnesota. University. Institute of Technology. Review properties snow & ice. 1951. No. 24376.

**20586. BENUM, PETER.** The flora of western parts of Senja and Kvaløya in Troms fylke, northern Norway. Tromsø, K. Karlsens tryk., 1935. 117 p., 4 plates, text map. (Tromsø, Norway. Museum. Aarshefter, 1938. Bd. 56, nr. 1. Naturhistorisk avd. Nr. 12)

*Contains data on topography, geology and climate of the western parts of Senja*

and Kvaløya islands in Troms province (69°20'–69°55' N.), list of stations and localities examined, a study of vegetation divided in nine natural zones, such as beach vegetation, bird cliffs, meadows, bogs, heaths, forests, etc., with list of typical plants, a general survey of plant distribution, arranged by families, p. 63-114, and a bibliography (37 items).

*Copy seen:* DLC; MH-Z.

**20587. BENZ, FRITZ, and others.** Adrenocorticotrophic hormone in the pituitary gland of the whale. (*Nature*, Apr. 1951. v. 167, no. 4252, p. 691) *Other authors:* Werner Schuler and Albert Wettstein.

*Contains preliminary report on isolation of this hormone from anterior lobes of pituitary glands of whales (blue, finback and humpback). "Crude prolactin" was first obtained and methods are described to isolate from it a pure principle. Data are given about yields assays, etc. Bibliography (5 items)*

*Copy seen:* DA

**20588. BEONIO-BROCCHIERI, V.** Sulle tracce di tribù boreali scomparse. (*Universo*, Nov.-Dic. 1951. Anno 31, p. 783-86, illus., map) *Title tr:* Traces of a vanished northern tribe.

*Contains general notes on the exploration of the European arctic region and the traces of Eskimo habitation on Clavering Island.* *Copy seen:* DGS.

**BERENBERG, FREDERICKA MARTIN, Mrs.,** *see* Martin, Fredericka I.

**20589. BEREZKIN, N. I.** Mineralogicheskii ocherk Īakutskoi respubliki. (Akademiia nauk SSSR. Mineralogicheskii muzei. Trudy, 1930. t. 4, p. 137-96, illus.) *Title tr:* Mineralogical survey of the Yakut Republic.

*Contains brief description of minerals found within the Yakut A. S. S. R., with note of who discovered them, date and locality; includes a chronological list of 39 expeditions to this region, from that of Pronchishev and Lassinius in 1733-44 to the expedition Academy of Sciences, 1925-29; bibliography (96 items)*

*Copy seen:* DLC.

**20590. BEREZKIN, VLADIMIR A.** Rukovodstvo po aktinometrii dlia polharnykh gidro-meteorologicheskikh stantsii Glavnogo upravleniia Severnogo morskogo puti. Vyp. 1. Leningrad, Izd. Glavsevmorputi, 1937. 127 p., illus. (Vsesoiuznyi arkticheskii institut) *Title*

tr.: A manual in actinometry for arctic hydro-meteorological stations of the Central Administration of the Northern Sea Route. Pt. 1.

Contains chapter on apparatus, their construction, calibration and installation; corrections to be applied and preparation of records. Recording of direct solar radiation by means of the Angström and Michelson actinometers and the Voloshina pyranograph. Measurement of total and reflected radiation (chap. 2) with special consideration of the Ianiskevsky pyranometer, the Kalitin albedometer and the Arazo-Devi-Kalitin actinometer.

**Copy seen:** DLC.

**BEREZKIN, VLADIMIR A.**, see also Leningrad. Vsesoŭznyi arkticheskiĭ institut. Aktinomet. nablŭd. 1935-37. 1939. No. 23771.

**20591. BEREZKIN, VSEVOLOD, A.** Dinamika morŭa. [2. izd.] Dopushcheno ... v kachestve uchebnogo posobiŭa dlŭa gidrometvuzov. Leningrad, Gidrometeorologicheskoe izd-vo, 1947. 683 p., illus., port. **Title tr.:** Dynamics of the sea [2d edition]. Authorized as a textbook for hydrometeorological schools.

An exhaustive, fundamental study on the movements of the sea, with chapters on waves, tides, currents. Its approach is highly scientific with numerous references to navigation, instrumentation, marine biology, etc. A special section (p. 604-615) is devoted to the arctic seas and basin, their hydrography, currents, ice conditions and movements, depth and bottom configuration, origin of water masses, climate, etc.

Appendix (p. 623-83) contains formulas for calculating "harmonious positions," tides, etc. Bibliography (about 300 items). The first edition of this work appeared in 1938 (541 p.).

Translation of p. 604-615 "North Arctic Ocean" is available at U. S. Hydrographic Office.

**Copy seen:** DLC (both editions).

**20592. BEREZOVSKIĬ, A. I.** Gidrobiologicheskie issledovaniŭa reki Eniseŭa. (predvaritel'nyi ocherk) s 1 kartof. (Krasnoyarsk, U.S.S.R. Vostochno-Sibirskaiŭa nauchnaiŭa rybokhoziŭstvennaiŭa stantsiŭa. Trudy, 1925, t. 2, vyp. 2, p. 19-42, tables) **Title tr.:** Hydrobiological study of the Yenisey River (preliminary report) with one map.

Contains studies made at ten stations of the lower Yenisey (near Turukhansk

and northward) between 1908 and 1923. Main emphasis on plankton to be later analysed in detail. Some general observations on temperatures and currents are also reported. Summary in German.

**Copy seen:** DLC.

**20593. BEREZOVSKIĬ, A. I.** O sigov-ykh (gen. *Coregonus*) reki Eniseŭa. (Krasnoyarsk, U.S.S.R. Vostochno-Sibirskaiŭa nauchnaiŭa rybokhoziŭstvennaiŭa stantsiŭa. Trudy, 1924, t. 2, vyp. 1, p. 79-97, tables) **Title tr.:** On whitefishes (gen. *Coregonus*) of the Yenisey River.

Author describes eight species of this genus common in the Yenisey; the migrations, spawning seasons and habits are also dealt with. Summary in German.

**Copy seen:** DLC.

**20594. BERG, ÅKE.** Några data ur *Caloneis silicula*-gruppens taxonomi. (Botaniska notiser, 1952, häft. 1, p. 67-71, illus.) **Title tr.:** Some data on the taxonomy of *Caloneis silicula* group.

Contains a taxonomic study of a group of diatoms, including *Caloneis silicula* and related species described from specimens from Abisko region, Swedish Lapland. Summary in German.

**Copy seen:** MH-A.

**BERG, de**, see Berkh, Vasilii Nikolaevich, 1781-1834.

**20595. BERG, GÖSTA.** Drinking tubes: some notes from Europe. (Ethnos, Stockholm, 1941. Bd. 6, no. 3-4, p. 98-108, 7 illus.)

Contains description of three Lapp drinking tubes (in Nordiska Museet, Stockholm) made of wild bird bones or reindeer horn, an implement rather rare among present-day Lapps. Northern European sucking-tubes, the author notes, are closely connected with the hard northern winter and its effect on drinking water. An implement similar to these three has a wide dissemination, being known from the Samoyeds, Ostyaks, and Chukchis, also in Africa and North America.

**Copy seen:** InU.

**20596. BERG, LEV SEMENOVICH, 1876-1950.** A catalogue of the freshwater fishes of Russia. (Akademiŭa nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1916, pub. 1917. T. 21, p. 222-42)

Contains a systematic list of 281 species of freshwater fishes of Russia with synonymy, citations of specimens and data on distribution. Includes many species native to the rivers of northern

European Russia, Siberia and Kamchatka. **Copy seen:** DLC; MH-Z.

**20597. BERG, LEV SEMENOVICH, 1876-1950.** Klassifikatsiia otrada Esociformes. (Akademiia nauk SSSR. Izvestiia. Seriia 7. Otdelenie matematicheskikh i estestvennykh nauk, 1931. no. 3, p. 461-62) **Title tr.:** Classification of the order Esociformes.

*Contains a brief description of the ichthyological order Esociformes, its two families Umbridae and Esocidae; and genera Umbra, Novumbra and Dallia; the last genus is native to the rivers of Chukotsk Peninsula and Alaska.*

**Copy seen:** DLC; MH.

**20598. BERG, LEV SEMENOVICH, 1876-1950.** Morfologiya basseina Aldana. (Zemlevedenie, 1917. t. 24, vyp. 1-2, p. 140-43) **Title tr.:** Morphology of the Aldan basin.

*Contains notes on the geology of the Aldan basin based on the published work of V. N. Zverev, who explored the region in 1912. The region is divided into three geological areas from south to north: Stanovoy Khrebet, the gneiss plateau, the tableland of Paleozoic formations, and each area is characterized briefly.*

**Copy seen:** NNA.

**20599. BERG, LEV SEMENOVICH, 1876-1950.** Nieskol'ko zamечaniy po povodu raboty g. V. Grafsianova "Opyt obzora ryb Rossiiskoi Imperii". (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1908, pub. 1909. t. 13, no. 4, p. 437-70) **Title tr.:** Some remarks concerning V. Grafsianov's work "An essay in revision of the fishes of the Russian Empire."

*Contains a critical review of this work, published in Moscow in 1907 (xxx, 567 p., copy in DLC) including notes on species native to the northern regions of European and Asiatic Russia.*

**Copy seen:** DLC; MH-Z.

**20600. BERG, LEV SEMENOVICH, 1876-1950.** Natural regions of the U.S.S.R. Translated from the Russian by Olga Adler Titelbaum [under the Russian Translation Project of the American Council of Learned Societies] Edited by John A. Morrison and C. C. Nikiforoff. New York, Macmillan, 1950. xxxi, 436 p., illus., maps.

*See Arctic Bibliography, No. 1389 and No. 1384. Reviewed by C. J. Webster in Arctic, Dec. 1951. v. 4, no. 3, p. 214-17.*

**Copy seen:** DLC; MH.

**20601. BERG, LEV SEMENOVICH, 1876-1950.** O proiskhozhdenii forelei i drugih presnovodnykh lososevykh. (In: Pavlovskii, E. N. Pamiatii akad. S. A. Zernova, 1948. p. 159-72) **Title tr.:** On the origin of trouts and other freshwater salmonoid fishes.

*Contains a study of the origin and phylogeny of fresh-water salmonoids, with a list of the genera, including Oncorhynchus, Salmo, Stenodus and Coregonus, native to northern regions of the U.S.S.R. and North America, and data on their life story, summer and winter forms and geographic distribution.*

**Copy seen:** MH-Z.

**20602. BERG, LEV SEMENOVICH, 1876-1950.** O rasprostraneniі rіchnogo ugrіa (Anguilla anguilla L.) v Rossii. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1916, pub. 1917. t. 21, p. 343-46) **Title tr.:** On the distribution of the eel (Anguilla anguilla L.) in Russia.

*Contains a discussion of the geographic distribution of the common European eel (Anguilla anguilla) in the basins of the White Sea (Northern Dvina and Murman coast) and the Black Sea.*

**Copy seen:** DLC; MH-Z.

**20602A. BERG, LEV SEMENOVICH, 1876-1950.** Ocherki po istorii russkikh geograficheskikh otkrytiі. 2-e izd. ispravlennoe i dopolnennoe. Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1949. 465 p., maps (2 fold.), ports. **Title tr.:** Sketches on the history of Russian geographical discoveries. Second edition, corrected and enlarged.

*Revision of the 1946 edition (see Arctic Bibliography, No. 1396). Chapters on Dezhnev's discovery of Bering Strait, the voyages of Krashenninnikov in Kamchatka, Russian discoveries in the Arctic, Butakov's work on the Aral Sea (central Asia) and other minor sections, are added.*

**Copy seen:** DLC.

**20603. BERG, LEV SEMENOVICH, 1876-1950.** Oecological parallels between lampreys and Salmonidae. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1935. nouv. ser., v. 3 (8), no. 2(62), p. 91-94)

*Parallels are found in lake-brook forms; river-sea and reverse migrations, geographical distribution of dwarf forms, and several other biological characteristics.*

**Copy seen:** DLC.

**20604. BERG, LEV SEMENOVICH, 1876-1950.** Pojavlenie boreal'nykh ryb v Barentsovom more. (In: Sbornik N. M. Knipovicha, 1939, p. 207-208). **Title tr.:** Boreal fishes in the Barents Sea.

Contains record of the catching of a specimen of *Scomberesox saurus* off the western coast of Novaya Zemlya in Aug. 1937, also a list of four other boreal fishes found in the same waters in 1936, and notes on eight boreal species caught in other arctic waters. Summary in English.

**Copy seen:** MH-Z.

**20605. BERG, LEV SEMENOVICH, 1876-1950.** A review of the lampreys of the Northern Hemisphere. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1931. t. 32, vyp. 1, p. 87-116, plates 1-8).

Contains keys to the genera and species and a critical revision of fourteen species of lampreys of the Northern Hemisphere with synonymy, list of specimens examined, critical notes and data on distribution; includes some species native to the rivers of northern European and Asiatic Russia and Kamchatka, White Sea, Alaska and Aleutian Islands.

**Copy seen:** DLC; MH-Z.

**20606. BERG, LEV SEMENOVICH, 1876-1950.** Rezenten Klimaschwankungen und ihre Einfluss auf die geographische Verbreitung der Seefische. (Zoogeographica, Sept. 1935. Bd. 3, p. 1-15) **Title tr.:** Recent climatic variations and their influence on the geographic distribution of marine fishes.

Discussion of recent warming-up of seas and of land surface climate, which apparently helps to explain the shift toward the north in both Eurasian and Pacific waters, of certain fishes and other marine life. Full bibliographic footnotes.

**Copy seen:** DSI-M.

**20607. BERG, LEV SEMENOVICH, 1876-1950.** Ryby presnykh vod SSSR i sopredel'nykh stran. Chast' 1-3. Izd. 4-e, ispravlennoe i dopolnennoe. Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1948-49. 3 pt.: 1 (1948) p. 1-466, illus.; pt. 2 (1949) p. 467-925, illus.; pt. 3 (1949) p. 927-1381; illus., fold. map (In: Akademiia nauk SSSR. Opredeliteli po faune SSSR. No. 27, 29, 30) **Title tr.:** Fresh-water fishes of the U.S.S.R. and adjoining countries; parts 1-3, 4th edition, revised and enlarged.

Contains a systematic list of species and subspecies of families of fresh-water fishes

of the U.S.S.R., a discussion of the modern ichthyological taxonomy with a list of special terms and observations, keys for the determination of families and descriptions of all known species with literature citations, dimensions, and data on biology, ecology, industrial importance and geographic distribution in the U.S.S.R. and adjoining countries; tables of geographic distribution of fresh-water fishes in various river basins of eastern Europe and northern Asia (pt. 3, p. 1195-1233); subdivision of palaearctic regions and Amur province into zoogeographic zones on the basis of the distribution of fresh-water fishes, p. 1234-74; bibliography (about 1,200 items) p. 1275-1316; additions and corrections to pt. 1-3, p. 1317-31, index of Latin names, p. 1332-68; index of vernacular names in Latin and Russian, p. 1369-81. Includes many species native to northern regions of Europe and Asia.

Previous editions were published in 1916, 1923, and 1932. An English translation of pt. 1-2 of the 1932 edition was issued: *Fresh-water fishes of the SSSR, and the surrounding countries* . . . translated by Julia Krenov. Washington, Work Projects Administration, 1941. 2 v. **Copy seen:** MH-Z; DLC (1916 ed., also trans. of 3d ed. pt. 1-2); DSI (4th ed.).

**20608. BERG, LEV SEMENOVICH, 1876-1950.** Sistema ryboobraznykh i ryb, nyne zhivushchikh i iskopaemykh. (Akademiia nauk SSSR. Institut zoologii. Trudy, 1940. t. 5, vyp. 2; p. 87-517, illus.) **Title tr.:** Classification of fishes, both recent and fossil.

Contains a review of the history of the classification of fishes and a synopsis of all the classes, orders, suborders and (in some cases) families of Agnatha and fishes, both living and fossil, with principal synonyms of the higher categories, notes on geological and geographic distribution and bibliographical footnotes; index of Latin names, p. 501-517; includes data on arctic regions. Summary in English, p. 346-500.

**Copy seen:** DLC; MH-Z.

**20609. BERG, LEV SEMENOVICH, 1876-1950.** Spisok ryb basseina Obi. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1908. t. 13, no. 3, p. 221-28) **Title tr.:** List of fishes of the Ob' basin.

Contains a systematic list of 42 fishes found in Ob' River, western Siberia, including Latin diagnosis of *Phoxinus czekanowskii sedelnikovi* n. subsp. and

critical notes and synonymy of *Leuciscus mehderi*. **Copy seen:** DLC; MH-Z.

**20610. BERG, LEV SEMENOVICH, 1876-1950.** Spisok ryb Kolymy. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1908. t. 13, no. 1, p. 69-107) **Title tr.:** List of fishes of the Kolyma.

*Contains* a systematic enumeration of 33 species of fishes of Kolyma River brought home in 1905 by S. A. Buturlin, with keys to the genera and species, synonymy, measurements, critical notes and data on distribution in Russia; bibliographical footnotes.

**Copy seen:** DLC; MH-Z.

**20611. BERG, LEV SEMENOVICH, 1876-1950.** Uspekhi ikhtiologii za 1917-1937 g. (Akademiia nauk SSSR. Izvestiia. Otdelenie matematicheskikh i estestvennykh nauk. Seriia biologicheskai, 1937. no. 5, p. 1493-1502) **Title tr.:** Progress in ichthyology during the period 1917-1937.

*Contains* an historical survey of 20 years' progress in the study of systematics, zoogeography and ecology of the fishes of the U.S.S.R., with data arranged by the sea basins, including those of the Arctic (in Europe and in Siberia), p. 1496-97, and Pacific (Bering and Okhotsk Seas). Summary in English.

**Copy seen:** MH.

**20612. BERG, LEV SEMENOVICH, 1876-1950.** Velikie russkie puteshestvenniki. Moskva, Gos. izd-vo detsoi literatury, 1950. 295 p. illus. maps (1 fold.)

*Contains* an account (for young people) of the lives and exploits of the ten foremost Russian travelers and explorers of the 15th to 19th centuries. Several are distinguished for their work in the North, viz.: Semen Dezhnev, Vladimir Atlasov, A. I. Chirikov, V. M. Golovnin, M. P. Lazarev.

**Copy seen:** DLC.

**20613. BERG, LEV SEMENOVICH, 1876-1950.** Vorläufige Bemerkungen über die europäischasiatischen Salmoninen, insbesondere die Gattung *Thymallus*. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1907, pub. 1908. t. 12, no. 4, p. 500-514) **Title tr.:** Preliminary notes on Eurasian Salmonini especially on the genus *Thymallus*.

*Contains* a synopsis of the genera and subgenera of ichthyological subfamily Salmonini and critical notes on six species, synonymy, and a table of measurements of five species of graylings (*Thymallus*).

Includes *T. arcticus* from the lower Ob' River and *T. pallasi* found in Yana River, eastern Siberia.

**Copy seen:** DLC; MH-Z.

**29614. BERG, LEV SEMENOVICH, 1876-1950.** Zametki o nêkotorykh palearkticheskikh vidakh r. *Phoxinus* (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1906, pub. 1907. t. 11, p. 196-213) **Title tr.:** Notes on some palaearctic species of the genus *Phoxinus*.

*Contains* a critical revision of Russian species of the genus *Phoxinus* with a key to four species recognized by the author, and descriptions of other known species and varieties, with synonymy, lists of localities and critical notes, also a fold. table of measurements of various specimens of these fishes. Includes some species native to the northern rivers of European and Asiatic Russia.

**Copy seen:** DLC; MH-Z.

**20615. BERG, LEV SEMENOVICH, 1876-1950.** Zoogeograficheskie podrazdeleniia dlia presnovodnykh ryb Tikhookeanskogo sklona severnoi Azii. (Akademiia nauk SSSR. Tikhookeanskii komitet. Bûlleten', 1934, no. 3, p. 49-52) **Title tr.:** Zoogeographical divisions for fresh-water fishes of the Pacific slope of Northern Asia.

*Contains* a scheme of zoogeographic division of fresh-water fish fauna of the Far East, consisting of the Pacific and Amur provinces; the first province is subdivided into: (1) Anadyr', (2) Kamchatka-Okhotsk and (3) Yukon (also other rivers emptying into Bering Sea and Pacific Ocean) regions; ichthyological characteristics of the regions are noted.

**Copy seen:** MH-Z.

**BERG, LEV SEMENOVICH, 1876-1950, see also** Akademiia nauk SSSR. Institut geografii. Russkie geografii i puteshestvenniki. 1948. No. 20098.

**20616. BERGAVINOV, SERGEĬ ADAMOVICH.** Arktika i polûs zavoevany! Moskva, Partizdat TSK VKP (b), 1937. 62 p., illus., 4 fold. maps, port. **Title tr.:** The arctic and the Pole conquered!

A popular pamphlet giving the essentials of arctic travel and exploration from the earliest times. Russian, especially Soviet achievements are stressed, as well as the economic and colonizing aspect of polar enterprise.

**Copy seen:** DLC.

**20617. BERGENDAL, DAVID, 1855-1908.** Zur Kenntnis der nordischen Nemertinen. (Bergen, Norway. Museum. Aarbok, 1902, no. 4, p. 1-22, plate) **Title tr.:** A contribution to the knowledge of northern Nemertinea.

*Contains* diagnoses of one new genus and five new northern species of Nemertinea, including *Carinella grönlandica* n. sp. caught in Jakobshavn Isfjord in West Greenland; it is not indicated where other species were collected.

**Copy seen:** MH-Z.

**20618. BERGERSEN, BIRGER, and J. LIE.** Hvalrådet og dets oppgave. (Norsk polar-tidende, no. 7-12, Polar-årboken 1952, p. 11-13) **Title tr.:** The Whaling Council and its task.

*Contains* account of this council of 11 members attached in an advisory capacity to the Norwegian government Dept. of Industry. It consists of representatives of industry and public interests; its main attention is paid to the regulation of whaling and disbursement of taxes levied on the whaling industry. Summary in English.

**Copy seen:** CaMAI.

**20619. BERGMAN, ARVID M.** Rennthierpest und Rennthierpestbacillen. (Zeitschrift für Thiermedizin, 1901. Bd. 5, p. 241-83, 326-37, illus., 3 plates, tables) **Title tr.:** Reindeer pest and reindeer pest bacilli.

*Contains* chapters on occurrence and distribution of the disease; the morphology and biology of the bacillus; clinical observations; etiology, including laboratory experiments with guinea pigs, rabbits, mice, sheep, pigs, etc. The disease was transmitted to reindeer, sheep, cattle, cats, mice, rats, sparrows, frogs, but rabbits, pigs, dogs and chickens are claimed to be refractory. Data on the course of the disease in the infected animals are given, and the way infections occur under natural conditions is discussed. Sections on therapy and prophylaxis conclude the account. Bibliographical footnotes. **Copy seen:** DSG.

**20620. BERGMAN, STEN, 1895- .** Berömda upptäcktsfärder, efter svenska och utländska källor skildrade av Sten Bergman. Stockholm, A. Bonnier [1939] 190 p., 1 l., front., illus. (maps), plates, prgts. **Title tr.:** Famous voyages of discovery described by Sten Bergman, according to Swedish and foreign sources.

Originally prepared as a series of lectures delivered over the Swedish

national broadcasting system, and based on the explorers' own narratives. Includes (as arctic exploration): Vitus Bering in northeast Asia (the Great Northern Expedition, 1725-43) p. 23-39; With the *Vega* along the Northeast Passage (the expedition of A. E. Norden-skiöld, 1878-80) p. 71-85; The *Jeannette* in the ice of the polar sea (De Long's expedition, 1879-81) p. 86-101; Fridtjof Nansen's voyage to the 86th latitude (the *Fram* expedition, 1893-96) p. 102-119; With Andrée toward the North Pole (the balloon expedition of 1896-97) p. 120-39; With Roald Amundsen to the North Pole (airship *Norge* flight, 1926), p. 154-71; Knud Rasmussen's voyage from Greenland to the Pacific Ocean (the 5th Thule Expedition, 1921-24), p. 172-88. Text in Swedish throughout.

**Copy seen:** DLC.

**20621. BERGMAN, STEN, 1895- .** Zur Kenntnis nordostasiatischer Vögel, ein Beitrag zur Systematik, Biologie und Verbreitung der Vögel Kamtschatkas und der Kurilen, mit 32 bildern und 2 karten, von Sten Bergman. Stockholm, A. Bonnier [1935]. 268 p. plates, maps (part fold.) **Title tr.:** Contribution to the knowledge of the birds of north-eastern Asia, their systematics, biology, and distribution in Kamchatka and the Kuriles.

*Contains* monographic treatment of about 150 bird species of Kamchatka Peninsula (p. 25-156) and the Kurile Islands (p. 157-258), results of the author's observations during the Swedish Kamchatka Expedition, 1920-22, of which he was leader, and during a sojourn in the Kuriles 1929-30. Introductory chapters cover previous ornithological investigations and geographic conditions in these regions. Bibliography (about 200 items)

**Copy seen:** DLC.

**20622. BERGSLAND, KNUT, 1914- .** L'alternance consonantique date-t-elle du lapon commun? (Studia Septentrionalia, 1945, v. 2, p. 1-53) **Title tr.:** Does the stage shift date back to the primitive Lapp?

The author tries to prove that the primitive Lapp language, apart from cases of contraction, had not known the stage shift. If true, it would collapse one of the most important arguments for a Finnish-Lapp common language and also theories regarding the stage shift in primitive Uralian.

**Copy seen:** DLC; InU.

**20623. BERGSLAND, KNUT, 1914-** . Kleinschmidt centennial IV: Aleut demonstratives and the Aleut-Eskimo relationship. (International journal of American linguistics, 1951. v. 17, no. 3, p. 167-79)

*Contains* linguistic study with conclusion that structurally Aleut and Eskimo languages are very similar and there can be little doubt that both are closely related.

**Copied seen:** DLC.

**20624. BERGSLAND, KNUT, 1914-** , and **R. TH. CHRISTIANSEN.** Norwegian research on the language and folklore of the Lapps. (Royal Anthropological Institute of Great Britain and Ireland. Journal, 1950, pub. 1952 v. 80, p. 79-95)

*Contains* an historical survey of studies and publications of Lappish dictionaries, grammars, also dialect, comparative philology and word studies, place name research, etc. Institutions promoting such research are noted. The second part by R. Th. Christiansen deals with investigations on Lapp mythology and folklore; extensive bibliographies are appended to both parts.

**Copied seen:** DLC.

**20625. BERGSLAND, KNUT, 1914-** . Remarques sur les pronoms démonstratifs lapons. (Suomalais-ugrilainen seura. Toimituksia, 1950. v. 98, p. 27-35) **Title tr:** Remarks on the demonstrative pronouns in Lapp.

The author's conclusion is that in Proto-Lapp there was a system of four terms, two of them strongly deictic with long vowels, and two weakly deictic or anaphoric with short vowels. The opposition 'visible'-'invisible' could be superposed to spatial oppositions.

**Copied seen:** DLC; InU.

**20626. BERGSØE, PAUL, 1872-** . Where did the Eskimo get their copper? A spectroscopic examination of copper objects in the Ethnographic Department of the National Museum. (Pub. in: Ethnographical studies published on the occasion of the centenary of the Ethnographical Dept., National Museum, København, 1941. Nationalmuseets skrifter. Etnografisk række 1, p. 107-120, illus. tables)

*Contains* an historical sketch of the early use of copper in general; presentation of materials and methods applied and the results of spectroscopic examinations of native copper from arctic and

northern America, Siberia and the Faroes; and comment that arctic native copper is easily distinguished by its relative purity, also its silver content, and is without regional differentiation, so that any determination of migrations of Eskimos by means of analysing objects of native copper is not possible; results also of similar examinations of non-Greenlandic and East Greenlandic copper tools and of Eskimo copper from the Thule District in North Greenland; also of old Swedish copper coins and Danish skillings and half skillings. The Eskimo tools from East Greenland showed a composition very similar to that of Danish copper (coins). Author comments on "fact that the now extinct Eskimo so high up as at Nordostrundingen used copper originating from Europe." Bibliography (24 items).

**Copied seen:** DLC.

**20627. BERGSTEN, KARL ERIK.** Some characteristics of the dispersion of the annual precipitation in Sweden during the period 1881-1940. [Lund] Royal University of Lund, Sweden, Dept. of Geography, 1950. 18 p. diagrs. (Lund studies in geography. Ser. A. Physical geography, no. 1)

*Contains* statistical analysis of precipitation records for 1881-1940 with regard to its variation. Records are from 80 stations, two of them (Jokkmokk and Karesuando) above the Arctic Circle. They indicate that "the coefficient of variation for the annual precipitation differs in different parts of Sweden, that the median usually has somewhat lower values than the mean, but that the differences are small and negligible except in the coastal regions and that about half of the stations have annual precipitations close to the normal frequency curve."—*Meteorological abstracts and bibliography*, Feb. 1952. v. 3, no. 2, p. 125. Bibliography (15 items).

**Copied seen:** DLC; DWB.

**20628. BERGSTRÖM, ERIK.** Zur Systematik der Polychaeten-familie der Phyllodoceiden. (Zoologiska bidrag från Uppsala, 1914. Bd. 3, p. 37-224, illus., plates 1-5) **Title tr:** On systematics of the Polychaeta family Phyllodoceidae.

*Contains* notes on the systematic position of this family of marine polychaete worms together with its diagnosis and systematic characteristics, p. 38-76; a discussion of the genera, with a key, p. 76-116, a discussion of the species,

with keys and diagnoses of 51 species from various waters (11 genera and 3 species described as new), list of localities and data on total distribution; a bibliography (200 items). Includes species distributed along the northern coast of Europe and Asia, in Greenland waters and Bering Sea. **Copy see:** MH-Z.

**BERING, VITUS JONASSEN, 1681-1741**, see Björkbohm, C. Two Bering maps. 1941. No. 20708.

**BERKELEY, CYRIL**, see Berkeley, E., & C. Berkeley. Biol. & oceanog. conditions Hudson Bay, 11. Polychaeta. 1943. No. 20629.

**20629. BERKELEY, EDITH, and C. BERKELEY**. Biological and oceanographical conditions in Hudson Bay, 11. Polychaeta from Hudson Bay. (Canada. Fisheries Research Board. Journal, Aug. 1943. v. 6, p. 129-32)

List of 57 species of polychaete annelid worms, collected 1927-30, only six of which were previously recorded from Hudson Bay, and two of which are here described as new genus and species, *Pseudosabellides littoralis*, and *P. lineata*. Bibliography (12 items).

**Copy seen:** DLC; DSI-M.

**20630. BERKH, VASILĬ NIKOLAEVICH, 1781-1834**. Notice du voyage de découvertes dans la Nouvelle-Zemble, entrepris en 1807 par M. Ludloff; suivie d'une description géographique de ce pays et de quelques détails sur les chasseurs russes. (Journal des voyages, découvertes et navigations modernes 1819. t. 2, p. 129-55) **Title tr.:** Note on a voyage of discovery to Novaya Zemlya, undertaken in 1807 by M. Ludloff, with a geographic description of this country and some details on Russian hunters.

Ludlov was sent to Novaya Zemlya by the governor of Novgorod in the hope of discovering silver deposits. His explorations, as recounted to Berkh (a noted Russian naval officer and explorer) and hitherto unpublished, were along the west coast between Matochkin Shar and Proliv Kostin Shar. This article gives a description (supplied by Berkh) of the two islands of Novaya Zemlya as then known, remarks on the surface features of the western coast of the southern island as observed by Ludlov, and (in detail) an account of hunters from the Arkhangel'sk region who made annual

trips to Novaya Zemlya (some wintering there) for fox pelts, sealskins and walrus oil for the Russian market. The personnel of these hunting parties, financial methods, the hunting equipment and practices, the huts and way of life on the island are described; also the animal life, birds, vegetation, and seasonal aspects of Novaya Zemlya. Reindeer are mentioned as providing the hunters with antidote for scurvy. **Copy seen:** DLC.

**BERNHARD, J. F.**, see Novitskiĭ, G. I. Kratkoje opisanie o narodnĭe ostaf'skom v 1715. 1884. No. 24746.

**20631. BERNHAUER, MAX, 1866-**. Coleopterologische Beiträge. (Entomologisk tidskrift, 1923. Årg. 44, häft 2, p. 141-46) **Title tr.:** Coleopterological contributions.

Contains descriptions of beetles from various regions, including *Atheta depressicollis* Sydvaranger, Norway, and *A. (Oreostebe) glaciei* n. sp. native to West Spitsbergen (Advent Bay).

**Copy seen:** MH-Z.

**20632. BERNHAUER, MAX, 1866-**. Neue Staphyliniden der palaearktischen Fauna. (Koleopterologische Rundschau, 1928-1929, pub. 1928. Bd. 14, no. 1, p. 8-23) **Title tr.:** New Staphylinidae of palaearctic fauna.

Contains diagnoses of 25 new species and 2 new varieties of rove beetles from various palaearctic regions, including *Atheta (Arctostiba) freyi* n. sp., from Dudinka on the lower Yenisey River and *Phloeodroma kamtschaticum* n. sp., collected in Kamchatka Peninsula.

**Copy seen:** MH-Z.

**20633. BERNHAUER, MAX, 1866-**. Zwei neue nordische Atheten. (Entomologisk tidskrift, 1931. Årg. 52, häft. 3-4, p. 200-201) **Title tr.:** Two new northern *Atheta* species.

Contains a German diagnosis of the beetle *Atheta (Metaxya) hidrothi* n. sp. collected in Abisko, Swedish Lapland.

**Copy seen:** MH-Z.

**20634. BERNSTEIN, JOSEPH G.** The effect of thermal environment on the morphology of the thyroid and adrenal cortical glands in the albino rat. (Endocrinology, June 1941. v. 28, p. 985-98, 5 figs.) Abridgement of dissertation, Ph. D. New York Univ.

Contains a study of the effects of varied thermal environment on the histology of

the thyroid and adrenal cortex. Quantitative and qualitative changes were found in the cells of these organs according to seasonal changes, but could not, in all cases, be related with changes in environmental temperature. Results of investigations on experimentally altered thermal environment, and on artificially induced fever, are also reported. Bibliography (43 items). **Copy seen:** DLC.

**20635. BERR, R.** Les gisements de charbon du Spitsberg. (Annales des mines, Paris. Mémoires, mars 1914. Sér. 11, t. 5, p. 125-97, illus. (inc. 6 sketch maps), 3 fold maps). **Title tr.:** Coal deposits of Spitsbergen.

*Contains* general description of the political and geographic situation of Svalbard; sketch of its stratigraphy and tectonics; history of early 20th century coal mining and research of the American, British, Swedish, Norwegian and Russian companies and governments, with a few results of analyses of coal samples from Swedish mines; Coal deposits on Bear Island (Bjørnøya) are also dealt with. Bibliography (13 items). **Maps:** (1) geologic map of West Spitsbergen scale 1:2,500,000; (2) geologic map of central West Spitsbergen (Isfjord region) scale 1:600,000; (3) map of the coal district of central West Spitsbergen showing company and national holdings, scale 1:900,000. **Copy seen:** DGS.

**20635A. BERRY, A. MATT.** Transportation in the Northwest Territories. (Precambrian, Nov. 1945. v. 18, no. 11, p. 13, 15). An address by the general manager of Northern Transportation Co., Ltd. before the Canadian Institute of Mining and Metallurgy, Oct. 16, 1945, sketching the water, road and air transportation problems and making specific recommendations for improvement. Editorial note at end outlines federal projects to improve transportation by road and water in Mackenzie District.

**Copy seen:** DGS.

**20636. BERRY J. M.** Royal Canadian Army Service Corps in northern trials and operations. (Arctic circular, Jan. 1951. v. 4, p. 3-10, map)

Survey of the programs and results of arctic and subarctic tests and activities during 1947-50, in which the tractor train has been established as a feasible means of transport under northern conditions; in which personnel has been trained for maintenance and operation

of tractors, and equipment and methods tested for transporting and maintaining personnel under winter conditions. Vehicles mentioned (without descriptions) are penguins, bombardiers (snowmobiles), wannegans (caboozes), and cargo sleighs. Exercises mentioned are Exercise Moccasin, 1947-48, R. C. Signals Exercise Sigloo, 1948-49, Operation Ennadai I, 1949, and Infantry Exercise Sun Dog I, 1950. **Copy seen:** CaMAI; DLC.

**20637. BERTHELSEN, ASGER.** A Pre-Cambrian dome structure at Tovqussaq, West Greenland. (Dansk geologisk forening. Meddelelser, 1950. Bd. 11, p. 558-72, illus., 4 sketch maps).

*Contains* a description of the various structural elements and the development of "a tilted pressed-up dome ('an unborn diapire') near the fishing village of Tovqussaq, Godthaab district, Greenland. Bibliography (13 items). Summary in Danish. **Copy seen:** DGS; DLC.

**20638. BERTRAM, G. COLIN L.** Launcelot Fleming: an appreciation by G. C. L. B. (Polar record, Jan. 1950. v. 5, no. 39, p. 396-97, port.)

Biographical sketch of Rev. W. L. S. Fleming, noting his activities as polar scientist and naval chaplain, and his consecration Oct. 18, 1948 as Bishop of Portsmouth; tribute to his work as director of the Scott Polar Research Institute, 1946-49, and as polar explorer, geologist, educator and priest.

**Copy seen:** CaMAI; DLC.

**20639. BERTRAM, G. COLIN L.** Pribilof fur seals. (Arctic, Aug. 1950. v. 3, p. 75-85, illus.)

Brief summary "of the discovery, exploitation and eventual conservation of the fur seal herd"; description of the present governmentally controlled régime, based on observations in 1949; and remarks on problems of the future, computation, biological factors and other questions needing further study.

**Copy seen:** CaMAI; DLC.

**20640. BERTRAM, G. COLIN L.** The Scott Polar Research Institute. (Arctic, Oct. 1952. v. 5, no. 3, p. 153-56, illus.)

*Contains* an account (by the present director) of the origin of the Institute as a center for maintaining continuity of research in techniques of polar life and travel; its founding in 1925 within the University of Cambridge, with endow-

ment from the Memorial Trust of Captain Scott. Its subsequent history, services and facilities are described, the building occupied in 1934, the collection of polar equipment, exhibits, extensive library, publication of the *Polar record*.

**Copy seen:** CaMAI; DLC.

**20641. BERTRAND, HENRI.** Notice sur les larves de Dytiscides de la collection Meinert. (Entomologiske meddelelser, 1931. Bd. 17, hefte 4, p. 286-305, illus.) **Title tr.:** Note on the larvae of Dytiscidae of Meinert's collection.

**Contains** a critical revision of the larvae of water-beetles in the collection of Fr. Meinert, including description of the larva of *Hydroporus melanocephalus*, found in Greenland. **Copy seen:** MH-Z.

**20642. BETEKHTIN, ANATOLIĬ GEORGIEVICH.** Aleksandr Nikolaeovich Zavariĭskii. Moskva-Leningrad, Izd-vo Akademii nauk, 1946. 38 p. (Akademiia nauk SSSR. Materialy k bio-bibliografii uchenykh SSSR. Seriiia geologicheskikh nauk, vyp. 7)

**Contents tr.:** Important dates in the life and scientific activity of acad. A. N. Zavariĭskii, p. 3-4; characteristics of his scientific and educational work, p. 5-19, bibliography of his publications, compiled by N. M. Asafova and O. V. Isakova (about 160 items) p. 20-36, and indices. Includes many papers on vulcanology of Kamchatka and some on geology of the Northern Ural. **Copy seen:** MH.

**20643. BETEKHTIN, ANATOLIĬ GEORGIEVICH.** Novye dannye po geologii Polunochnogo mestorozhdeniia margantsa na Severnom Urale. (Akademiia nauk SSSR. Izvestiia. Seriiia geologicheskaiia, 1944, no. 4, p. 59-69, illus.) **Title tr.:** New data on the geology of the Polunochnoye manganese deposit in the Northern Urals.

"Concludes that the Polunochnoye manganese deposit on the east slope of the north Urals, Russia, has less width than the Chiaturo deposit in Transcaucasia, Russia, because subsidence of the basin in which the Polunochnoye deposits were laid down was greater than that in the Chiaturo basin of deposition."—Geological Society of America. *Bibliography and index of geology*, 1943-44, v. 10, p. 11. Summary in English.

**Copy seen:** DLC; MH.

**BETLING, O.,** see Böhrling, Otto von, 1815-1904.

**20644. BETTS, D. A.** Democracy marches north. (RCMP quarterly, July 1952. v. 18, no. 1, p. 2-5, illus.)

Historical outline of administration of Northwest Territories; the local administrative district of Yellowknife, formed in 1939; inclusion of NWT. in the federal riding of Yukon Territory 1947; reorganization of NWT. Council 1951.

**Copy seen:** CaMAI.

**20645. BEZUMOV, F. A., and B. V. PREOBRAZHENSKIĬ.** Ispol'zovanie pastbishch v olenevodskom kolkhoze. (Sotsialisticheskoe zhivotnovodstvo, Dec. 1952. v. 14, no. 12, p. 76-77, illus. table) **Title tr.:** Utilization of pastures in a reindeer kolkhoz.

**Contains** a report on the reindeer kolkhoz "Nar'ian-ty" in the Nenets National District with information and data on the number of animals and herds, production of meat and skins, history of this kolkhoz and its cultural activities, area of reindeer pastures and their utilization, the problem of Iceland-moss, the main food plant of the pastures; pasture rotation; etc.

**Copy seen:** DLC.

**BEY, PAUL P.,** see Minnesota. University. Institute of Technology. Review properties snow & ice. 1951. No. 24376.

**BEY-BIENKO, G. IĀ.,** see Bel-Bienko, Grigoriiĭ Ākovlevich, 1903-

**20646. BĬĀLYNITSKII-BĬRULĬĀ, ALEKSEĬ ANDREEVICH, 1864-1937.** Beiträge zur Kenntnis der Crustaceen-Fauna des Kara-Basens und des Unterlaufes des Flusses Kara. (Akademiia nauk SSSR. Zoologicheskii institut. Trudy, 1937. t. 4, vyp. 3-4, p. 701-742, illus.) **Title tr.:** Contributions to the knowledge of the crustacean fauna of Kara Bay and the lower course of Kara River.

Results of the study of amphipodous crustaceans (Crustacea Amphipoda) collected by the Expedition of A. N. Probatov in 1932-33. Brief geographic sketch of the lower Kara River and Bay region (69° N. 64°30' E.), and description of seven new or little-known species, including *Gammarus wilkitzkii karae-fluminis* n. subsp., *G. pulex karae* n. subsp. and *Pontoporeia affinis gurbanovae* n. subsp., with ecological data. Summary in Russian.

**Copy seen:** DLC; MH-Z.

**20647. BĬĀLYNITSKII-BIRULĬĀ, ALEKSEĬ ANDREEVICH, 1864-1937.** Ixo-

didae novi vel parum cogniti Musei Zoologici Academiae Caesareae Scientiarum Petropolitanae, I. (Akademiia nauk SSSR. Izvestiia. Serii 5, 1895. t. 2, no. 4, p. 353-64, plates 1-2) **Title tr.:** New or little known Ixodidae of the Zoological Museum of the Imp. Academy of Sciences of St. Petersburg, I.

**Contains** a key to the species of the ticks of the genus *Argas* and diagnoses of seven new species from various regions, including *Ixodes hirsutus* and *I. signatus* n. spp. native to Unalaska Island in the Aleutians. **Copy seen:** MH.

**20648. BIALYNIŤSKIĬ-BIRULĬA, ALEKSEĬ ANDREEVICH, 1864-1937.** K voprosu o geograficheskikh formakh belogo medvedia (*Thalassarctos maritimus* Phipps). Materialy po sistematike i geograficheskomu rasprostraneniui mlekoпитаushchikh, VII. (Akademiia nauk SSSR. Zoologicheskii institut. Trudy, 1932. t. 1, vyp. 1, p. 99-134, 3 plates) **Title tr.:** On geographic forms of white polar bear (*Thalassarctos maritimus*). Contributions to systematics and geographic distribution of mammals VII.

**Contains** a study of six geographic races of the polar bear (*Thalassarctos maritimus*) from Greenland, Svalbard, Labrador, Novaya Zemlya, Taymyr Peninsula, Lena region and Ellesmere Land, based on craniological data; a comparison of the Spitsbergen and Siberian bears, tables of skull and other external dimensions, and a discussion of methods of skull measurement. Summary in German. **Copy seen:** DLC; MH-Z.

**20649. BIALYNIŤSKIĬ-BIRULĬA, ALEKSEĬ ANDREEVICH, 1864-1937.** Kolleksiia bezpozvonochnykh, sobrannaia A. S. Botkinym. (Akademiia nauk SSSR. Zoologicheskii muzel. Ezhegodnik, 1896. t. 1, p. VII-IX) **Title tr.:** The collection of invertebrates made by A. S. Botkin.

**Contains** a general survey of a small collection of invertebrates from the Yenisey and Ob' Bays, and a preliminary description of a new isopodous species *Glyptonotus sibiricus* and comparison with another species *G. entomon*.

**Copy seen:** DLC; MH-Z.

**20650. BIALYNIŤSKIĬ-BIRULĬA, ALEKSEĬ ANDREEVICH, 1864-1937.** Materialy dlia biologii i zoogeografii preimushchestvenno russkikh morei, I. K

faunae meduz Solovetskago zaliva. (Akademiia nauk SSSR. Zoologicheskii muzel. Ezhegodnik, 1896. t. 1, no. 4, p. 327-54) **Title tr.:** Materials on biology and zoogeography, principally in Russian seas, I. On the medusa fauna of Solovetskiy Bay.

**Contains** a key to the species and an enumeration of 17 species of hydromedusae found in Solovetskiy Bay of the White Sea, with synonymy, Russian descriptions and critical notes.

**Copy seen:** DLC; MH-Z.

**20651. BIALYNIŤSKIĬ-BIRULĬA, ALEKSEĬ ANDREEVICH, 1864-1937.** Materialy dlia biologii i zoogeografii preimushchestvenno russkikh morei, II. Hydrozoa, Polychaeta i Crustacea, sobrannyya d-rom A. S. Botkinym v Eniseiskoi i Obskoi gubakh, lietom 1895 goda. (Akademiia nauk SSSR. Zoologicheskii muzel. Ezhegodnik, 1897. t. 2, no. 1, p. 78-116, plates 9-10) **Title tr.:** Materials on biology and zoogeography, principally in Russian seas, II. Hydroids, polychaetes, and crustaceans collected by Dr. A. S. Botkin in the summer of 1895 in Yenisey and Ob' Bays.

**Contains** a general description of the fauna of Kara Sea and an enumeration of four species of hydroids (one new), four annelid worms (one new) and ten crustaceans (one new) collected by Dr. A. S. Botkin in the Yenisey and Ob' Bays; a few other species from the collections of the Zoological Museum, native to the White and Murmansk (i. e. southern Barents) Seas are described for comparison. **Copy seen:** DLC; MH-Z.

**20652. BIALYNIŤSKIĬ-BIRULĬA, ALEKSEĬ ANDREEVICH, 1864-1937.** Materialy dlia biologii i zoogeografii preimushchestvenno russkikh morei, III. Ocherk fauny Crustacea-Decapoda morei Murmanskago i Belago. (Akademiia nauk SSSR. Zoologicheskii muzel. Ezhegodnik, 1897. t. 2, no. 4, p. 405-452, plates 20-22) **Title tr.:** Materials on biology and zoogeography, principally in Russian seas, III. Crustacea-Decapoda fauna of the Murman and White Seas.

**Contains** a review of collections, critical review of literature on the fauna of the investigated region, a key to the genera and species of the order Decapoda and descriptions of 26 decapods of the White and Barents Sea, synonymy, critical

notes, data on distribution and a zoogeographic sketch.

**Copy seen:** DLC; MH-Z.

**20653. BĬALYNITSKIĬ-BIRULĬA, ALEKSEĬ ANDREEVICH, 1864-1937.** Materialy dlĭa biologii i zoogeografii preimushchestvenno russkikh moreĭ, IV. Dopolnenie k faunie Crustacea-Decapoda Bĭelogo morĭa. (Akademiĭa nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1898, t. 3, no. 2, p. 184-89, plate) **Title tr.:** Materials on biology and zoogeography, principally in Russian seas, IV. Supplement to the crustacea-decapoda fauna of White Sea.

**Contains** Latin and Russian descriptions of a decapod, *Hyppolyte mysis* n. sp. collected in Kandalaksha Bay near Kovda.

**Copy seen:** DLC; MH-Z.

**20654. BĬALYNITSKIĬ-BIRULĬA, ALEKSEĬ ANDREEVICH, 1864-1937.** Materialy dlĭa biologii i zoogeografii preimushchestvenno russkikh moreĭ, V. O zavisimosti stroeniĭa nĕkotorykh gidroidov poberezh'ĭa Solovetskikh o-vov ot fizicheskikh uslovii ikh mĕstoobitaniĭa. (Akademiĭa nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1898, t. 3, no. 2, p. 203-214, illus.) **Title tr.:** Materials on biology and zoogeography, principally in Russian seas, V. On the relationship between the morphological structure of some hydroids of the shores of the Solovetskiy Islands and the physical conditions of their habitats.

**Contains** a study of the changes in the structure of some hydroids under influence of physical conditions, based on observations on nine species of hydroids in the deep-water and littoral zones of the Solovetskiy Islands, White Sea.

**Copy seen:** DLC; MH-Z.

**20655. BĬALYNITSKIĬ-BIRULĬA, ALEKSEĬ ANDREEVICH, 1864-1937.** Materialy dlĭa biologii i zoogeografii, preimushchestvenno russkikh moreĭ, VI. Crustacea-Decapoda, sobrannaĭa nauchno-promyslovoi ĕkspeditsiei Pomorskago Komiteta v 1898 u Murmana. (Akademiĭa nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1899, t. 4, no. 1, p. 20-38, illus.) **Title tr.:** Materials on biology and zoogeography, principally in Russian seas, VI. Crustacea-Decapoda collected by the Scientific Economic Expedition of the Pomor Committee of 1898 to Murman.

**Contains** a brief survey of decapod fauna of Barents Sea, on the basis of

investigations carried out during the Expedition of the Committee for the Relief of the "Pomors" (Inhabitants of the northern seacoast) in 1898; with a table of distribution of decapods in 12 European arctic regions, a list of 55 stations and an enumeration of 16 species with critical notes, also data on habitat and distribution.

**Copy seen:** DLC; MH-Z.

**20656. BĬALYNITSKIĬ-BIRULĬA, ALEKSEĬ ANDREEVICH, 1864-1937.** Materialy dlĭa biologii i zoogeografii preimushchestvenno russkikh moreĭ, VII. Zamĕtka o rakoobraznykh, sobrannykh d-rom A. S. Botkinym v 1896 i 1897 g. v Karskom morĕi i Kaninsko-pechorskoi ralonie Murmanskago morĭa. (Akademiĭa nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1899, pub. 1900, t. 4, no. 4, p. 418-48, illus.) **Title tr.:** Materials on biology and zoogeography, principally in Russian seas, VII. Notes on the crustaceans collected by Dr. A. S. Botkin in 1896 and 1897 in Kara Sea and the Kanin-Pechora region of Murman Sea.

**Contains** general hydrological data on the region explored, a list of decapods, isopods and amphipods, a list of nine stations in the Kara Bay, Yugorskiy Shar Strait and Barents Sea, and descriptive notes on 20 species of Crustacea collected by Botkin.

**Copy seen:** DLC; MH-Z.

**20657. BĬALYNITSKIĬ-BIRULĬA, ALEKSEĬ ANDREEVICH, 1864-1937.** Materialy dlĭa biologii i zoogeografii preimushchestvenno russkikh moreĭ, VIII. O littoral'noi oblasti, v beregovoi polosie Shpiĭsbergena. (Akademiĭa nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1906, pub. 1907, t. 11, p. 115-25) **Title tr.:** Materials on the biology and zoogeography, principally in Russian seas, VIII. On the littoral zone of the coast of Spitsbergen.

**Contains** a discussion on the littoral zone of West Spitsbergen based on the author's hydrological and zoological observations in Storfjord, Hornsund and Isfjord in 1899 and comparison with the littoral fauna of the White and Barents (Murman) Sea.

**Copy seen:** DLC; MH-Z.

**20658. BĬALYNITSKIĬ-BIRULĬA, ALEKSEĬ ANDREEVICH, 1864-1937.** Studien über die Chironomiden der Arktis.

(Konowia, 1935. Bd. 14, heft 3, p. 230-240, illus.) **Title tr.:** Studies on Chironomidae of the Arctic.

**Contains** descriptions and dimensions of two new types of larvae of midges of the family Chironomidae: *Tanytarsus* (subgen.?) sp. larva *variegata* A. B. and *T. sp. larva pedicellifera* A. B. collected in fresh-water basins in the lower Pechora River region, Arkhangel'sk province.

**Copy seen:** MH-Z.

**20659. BIĀLYNITSKIĬ-BIRULIĀ, ALEKSEĬ ANDREEVICH, 1864-1937.** Über die russischen Wespen und ihre geographische Verbreitung. (Zweiter Beitrag); —(Dritter Beitrag). (Akademiā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1927. t. 28, vyp. 1, p. 72-82; (III) 1930, t. 31, vyp. 2, p. 291-339, illus., 2 text maps). **Title tr.:** On Russian wasps and their geographic distribution. Contributions, II-III.

**Contains** (in pt. II) a key for three species of Russian wasps (gen. *Vespula*), descriptions and data on distribution; includes *V. media* occurring in Nordland, Norway (68° N.); in pt. III is a critical study of three species of *Vespula* with descriptions of numerous morphae, comparative tables and data on distribution; includes *norvegica* distributed from northern Norway through northern Eurasia to Kamchatka and *V. norvegica pacifica* n. subsp. native to Kamchatka Peninsula; pt. I (Archiv für Naturgeschichte, 1924. Abth. A. v. 90) does not include arctic material.

**Copy seen:** DLC; MH-Z.

**20660. BIĀLYNITSKIĬ-BIRULIĀ, ALEKSEĬ ANDREEVICH 1864-1937.** Zoologicheskie rezul'taty russkikh-ekspeditsii na Shpitsbergen. Biologicheskii nablūdeniā nad ptitsami Shpitsbergena. (Akademiā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1910. t. 15, no. 1, p. 167-206, illus., 2 plates) **Title tr.:** Zoological results of the Russian expedition to Spitsbergen. Biological observations on the birds of Spitsbergen.

**Contains** the author's observations on the biology and ecology of 15 species of arctic birds, made mostly on the western coast of West Spitsbergen during the Russian expeditions to Spitsbergen for the measurement of an Arc of Meridian in 1899.

**Copy seen:** DLC; MH-Z.

**20661. BIĀLYNITSKIĬ-BIRULIĀ, ALEKSEĬ ANDREEVICH, 1864-1937.** Zoo-

logische Ergebnisse der russischen Expeditionen nach Spitzbergen. Crustacea-Decapoda. (Akademiā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1906, pub. 1907. t. 11, p. 1-114, illus., map) **Title tr.:** Zoological results of Russian expedition to Spitsbergen. Crustacea-Decapoda.

**Contains** a synopsis of 16 species of decapods of West Spitsbergen with synonymy, list of stations and data on distribution in Svalbard waters, the content of the material collected being arranged by stations. Includes a discussion of distribution of these crustaceans in Svalbard and in northern European and Asiatic waters (a comparative table); based mostly on material collected during the Expedition for the Measurement of an Arc of Meridian, 1899-1902.

**Copy seen:** DLC; MH-Z.

**20662. BIANKI, VALENTIN L'VOVICH, 1857-1920.** *Acanthia (Calacanthia) trybomi* (J. Sahlb.) s Novoĭ Zemli. (Akademiā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1897. t. 2, no. 3, p. 362-64) **Title tr.:** *Acanthia (Calacanthia) trybomi* (J. Sahlb.) from Novaya Zemlya.

**Contains** the synonymy, critical notes and data on total distribution of a bug, *Acanthia trybomi*, collected for the first time on Novaya Zemlya (72°26'24" N.) by G. G. Ĭakobson during the Imperial Academy of Sciences' Expedition in 1896.

**Copy seen:** DLC; MH-Z.

**20663. BIANKI, VALENTIN L'VOVICH, 1857-1920.** Catalogue of the known species of the Paridae or the family of tits. (Akademiā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1902. t. 7, no. 3, p. 235-62)

**Contains** a systematic list of 185 birds of the fam. Paridae, with literature citations and brief data on distribution. Includes some species native to northern Scandinavia, Russia and Alaska.

**Copy seen:** DLC; MH-Z.

**20664. BIANKI, VALENTIN L'VOVICH, 1857-1920.** Diagnostika letuchikh myshel (Chiroptera) Evropeiskoi Rossii. (Akademiā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1917, pub, 1918. t. 22, no. 1-3, p. 200-217) **Title tr.:** Determination of the bats (Chiroptera) of European Russia.

**Contains** a key for determination of the genera and 19 species of bats and a table of their distribution in 11 geographic regions. Includes *Eptesicus nilssoni*

*borealis* occurring in Russian Lapland (68° N.) **Copy seen:** DLC; MH-Z.

**20665. BIANKI, VALENTIN L'VOVICH, 1857-1920.** Enumeratio operum opusculorumque ad faunam Hemipterorum-Heteropterorum Imperii Rossici pertinentium 1798-1897. (Akademifā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1898. t. 3, no. 3-4, p. 289-323) **Title tr.:** A list of works concerning the fauna of Hemiptera-Heteroptera of the Russian Empire, 1798-1897.

**Contains** an alphabetically arranged list of about 350 works concerning the bugs (Hemiptera-Heteroptera) of the Russian Empire (including Finland); and a geographical index, p. 320-23. Includes some works on arctic regions of Finland and European and Asiatic Russia.

**Copy seen:** DLC; MH-Z.

**20666. BIANKI, VALENTIN L'VOVICH, 1857-1920.** Formy rodov *Leucosticte* Swains. i. *Fringillauda* Hodgs., sem. Fringillidae. (Akademifā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1908. t. 13, no. 1-2, p. 28-61) **Title tr.:** Revision of the forms of *Leucosticte* Swains. and *Fringillauda* Hodgs. fam. Fringillidae.

**Contains** a critical revision of 15 species of fringilline birds (Fringillidae), with keys to the species, descriptions, synonymy, illustrations and data on distribution; includes some species native to northern Siberia (Yakutia - Bering Strait), Kamchatka, Aleutian Islands and Alaska. **Copy seen:** DLC; MH-Z.

**20667. BIANKI, VALENTIN L'VOVICH, 1857-1920.** K avifaunē siēvernoi chasti Tobol'skoī gubernii. (Akademifā nauk SSSR. Zoologicheskii muzei, Ezhegodnik 1917, pub. 1918. t. 22, no. 1-3, p. i-vi) **Title tr.:** Notes on the avifauna of the northern part of Tobolsk government.

**Contains** a list of 41 birds collected in 1916 in the valley of Nadym River (flowing north into Ob' Bay, 65°13' N. 73°15' E.), with ecological notes and localities. **Copy seen:** DLC; MH-Z.

**20668. BIANKI, VALENTIN L'VOVICH, 1857-1920.** K avifaunē ust'ia r. Obi i prilozhashchēi chasti poluostrova ĭamal. (Akademifā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1909. t. 14, p. iv-vi) **Title tr.:** On the avifauna of the Ob' River mouth and adjacent parts of Yamal Peninsula.

**Contains** a list with localities, of 25

birds in a small collection of D. Var-dropper from the mouth of Ob' River and southern part of Yamal Peninsula.

**Copy seen:** DLC; MH-Z.

**20669. BIANKI, VALENTIN L'VOVICH, 1857-1920.** K avifaunē Zemli Frantsa Iosifa. (Akademifā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1917, pub. 1918. t. 22, no. 1-3, p. vi-vii) **Title tr.:** On the avifauna of Franz Josef Land.

**Contains** a list of ten birds (27 specimens and 28 eggs) collected in 1914 by the Polar Expedition of Lieut. G. ĪA. Sedov on Franz Josef Land.

**Copy seen:** DLC; MH-Z.

**20670. BIANKI, VALENTIN L'VOVICH, 1857-1920.** K diagnostikē palearkticheskikh vidov roda *Carpodacus* Kaup. (Akademifā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1897. t. 2, no. 2, p. 218-40) **Title tr.:** The determination of palearctic species of the genus *Carpodacus* Kaup.

**Contains** a key for the determination of 19 species of finches (gen. *Carpodacus*), including *C. erythrinus* occurring in arctic regions from Lapland across Asia to Kamchatka and Commander Islands.

**Copy seen:** DLC; MH-Z.

**20671. BIANKI, VALENTIN L'VOVICH, 1857-1920.** Kratkiĭ obzor avifauny Komandorskikh ostrovov. (Akademifā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1909. t. 14, no. 1-2, p. 48-76) **Title tr.:** Sketch of the avifauna of the Commander Islands.

**Contains** a list of 153 birds occurring on the Commander Islands in Bering Sea, with ecological data and a systematic list, p. 71-76, based on the author's observations in 1908 and on literature data.

**Copy seen:** DLC; MH-Z.

**20672. BIANKI, VALENTIN L'VOVICH, 1857-1920.** Obzor form semelstva zavirushek, Accentoridae, ord. Passeriformes. (Akademifā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1904. t. 9, no. 1, p. 108-156) **Title tr.:** Revision of the genera and species of the family Accentoridae, ord. Passeriformes.

**Contains** a critical revision of the birds of this family, with key to four genera (one new) and 18 species, critical notes and data on distribution. Includes *Spermolegus montanellus*, occurring in all northern Siberia and *Prunella modularis* found in Inari region, northern Finland and in Arkhangel'sk province.

**Copy seen:** DLC; MH-Z.

**20673. BIANKI, VALENTIN L'VOVICH, 1857-1920.** Ornitologicheskie materialy Ekspeditsii dlia nauchno-promyslovogo izsledovaniia Murmana 1899-1901. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1902. t. 7, no. 3, p. 263-73) *Title tr.:* Ornithological materials of the Murman Scientific-Economic Expedition, 1899-1901.

*Contains a systematic list, with localities, of 58 species (175 specimens) of birds collected from the Kola Peninsula, in 1899-1901. Copy seen: DLC; MH-Z.*

**20674. BIANKI, VALENTIN L'VOVICH, 1857-1920.** Preliminary review of the palaearctic and Himalo-Chinese species of the Muscipidae or family of flycatchers. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1907. t. 12, no. 1, p. 13-85, fold. table)

*Contains a critical revision of 47 palaearctic species of flycatchers (fam. Muscipidae), with keys to the genera and species, synonymy, list of illustrations, data on migration and nesting, critical notes and data on distribution with a table. Includes some species native to northern Scandinavia and European and Asiatic Russia.*

*Copy seen: DLC; MH-A.*

**20675. BIANKI, VALENTIN L'VOVICH, 1857-1920.** Rasprostranenie ptits v sivero-zapadnoi chasti Evropeiskoi Rossii. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1922. t. 23, no. 2, p. 97-128) *Title tr.:* Geographic distribution of birds in the northwestern part of European Russia.

*Contains tabulated data on the distribution of 360 birds in ten geographic regions of northwestern Russia, including Kola Peninsula, adjoining regions of Scandinavia and Arkhangel'sk province. Ornithological characteristics and a list of typical species are given for each region.*

*Copy seen: DLC; MH-Z.*

**20676. BIANKI, VALENTIN L'VOVICH, 1857-1920.** Spisok ptits, sobrannykh G. A. Mol'trekhtom v basseine rëki Anadyra. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1908. t. 13, p. xxxiii-xxxv) *Title tr.:* List of birds collected by Mr. A. Mol'trekht in the Anadyr' River basin.

*Contains a list of 40 species of birds collected in the Anadyr' valley, north-eastern Siberia in 1907, and given to the Zoological Museum.*

*Copy seen: DLC; MH-Z.*

**BIBLE CHURCHMEN'S MISSIONARY SOCIETY,** see Flint, M. S. Arctic, land of snowmen. 1948. No. 21844.

**BIENKO, G. I. A. BĖĭ**—see Bel-Bienko, Grigorii Iakovlevich, 1903—

**20677. BIERMAN, WILLIAM.** Conductive cooling of living human tissue. (Society for Experimental Biology and Medicine. Proceedings, Nov. 1939. v. 42, p. 518-20)

*Contains a report on a series of experiments which demonstrated that it is possible to lower substantially the temperature of the tissues of the living human body at a distance from a cold applicator placed on the body surface. An explanation of this phenomenon is offered in vasoconstriction and conductive cooling. (Preliminary paper).*

*Copy seen: DLC.*

**20678. BIERMAN, WILLIAM, and M. FRIEDLANDER.** The penetrative effect of cold. (Archives of physical therapy, Oct. 1940. v. 21, p. 585-92)

*Contains a report on observations on penetrative effects of cold applied locally to the leg, cheek, rectum, vagina, abdomen, and head. Bibliography (6 items).*

*Copy seen: DLC.*

**20679. BIGELOW, W. G., and others.** Hypothermia; its possible role in cardiac surgery; an investigation of factors governing survival in dogs at low body temperatures. (Annals of surgery, Nov. 1950. v. 132, no. 5, p. 849-66, 4 fig.) *Other authors: W. K. Lindsay and W. F. Greenwood.*

*Contains results of experiments with hypothermic dogs (the shivering controlled by anesthetics), made for the purpose of studying the physiology of the cardiovascular system and the mechanism of death at low body temperature. As cooling advanced there was a gradual fall of blood pressure, heart rate and cardiac output, with a comparable rise on re-warming; intense vasoconstriction, vascular stasis with erythrocyte agglutination, were observed at low body temperatures; venous pressure proved a valuable guide to the condition of the heart and its prolonged increase was often followed by "cardiac crisis," which could be temporarily forestalled by venesection; ventricular fibrillation usually caused death between 16° and 22° C., venesection and immediate re-warming caused a return from fibrillation to nor-*

mal, with revival. Other possible causes and factors of death are also discussed. Bibliography (42 items).

**Copy seen:** DLC.

**20680. BIGELOW, W. G., and others.** Oxygen transport and utilization in dogs at low body temperatures. (American journal of physiology, Jan. 1950. v. 160, p. 125-37, 10 fig.) Other authors: W. K. Lindsay, R. C. Harrison, R. A. Gordon, and W. F. Greenwood.

Contains a study on oxygen consumption of dogs made hypothermic to 18° C., aiming to correlate observed values with oxygen requirements of the tissues in hypothermia. Oxygen consumption was found to fall consistently with reduction of body temperature down to 18° C., and rose in a parallel way upon rewarming. No tissue-oxygen deficit developed during the period of cooling. Bibliography (25 items).

**Copy seen:** DLC.

**20681. BIJL, W. van der.** Midden op de Groenlandse ijsvlakte. (Hemel en dampkring, May 1950. Jaarg. 48, afl. 5, p. 92-94) **Title tr.:** In the middle of Greenland's icecap.

Extreme temperatures as observed by the French Arctic Expedition of P. É. Viator during the fall and winter of 1949-50, are compared with those found by the Wegener Expedition in 1930-31, and those in Siberia. "Lower extreme temperatures (-53° C.) occurred in the autumn at the icecap station than in the free air at the same elevation, owing to radiation properties of snow and ice. A profile of Greenland at 70° [N.] shows 6 meteorological stations and topography of sea, mountains and ice."—*Meteorological abstracts and bibliography*, Sept. 1950. v. 1, no. 9, p. 566.

**Copy seen:** DLC.

**20682. BIJL, W. van der.** Een warmte-record op "Eismitte." (Hemel en dampkring, Dec. 1950. Jaarg. 48, afl. 12, p. 215-16) **Title tr.:** A heat record at Eismitte.

"It is reported for the first time that on June 21, 1950 the temperature at Eismitte [on Greenland inland ice at 71°11' N. 39°54' W. 3000 m. above sea level] rose above 0° C. The mean daily temperature was -1.4° C. and light rain fell at 1500 hr. The preceding day the barometric pressure attained 709 mb., snow mixed with rain drops fell from stratocumulus clouds; southerly winds and cloud cover at night prevented ex-

treme drop in temperature. In 1930-31 Wegener reported an absolute maximum of -2.8° C. and mean of -6.2° C. for the warmest day. On Feb. 22, 1950, a mean daily temperature of -63.4° C. and a minimum temperature of -66° C. were reported. The absolute minimum [reported by the Wegener party] March 1931 was -64.8° C."—*Meteorological abstracts and bibliography*, Nov. 1951. v. 2, no. 11, p. 898.

**Copy seen:** DLC.

**20683. BILIBIN, G. A.** Some interesting features of the metallogeny of Aldan. (Akademika nauk SSSR. Comptes rendus (Doklady), 1946. nouv. ser., v. 51, no. 6, p. 461-64)

Types of mineralization are described and their genesis related to the Aldan alkaline intrusive complex. Character and development of the intrusive rocks; process and locus of magma differentiation and source of ore solutions for the main local deposits are discussed.

**Copy seen:** DLC.

**20684. BILLSON, CHARLES J.** Names, Lapp. (In: Hastings, James, ed. Encyclopaedia of religion and ethics, 1917, v. 9, p. 170-71)

Contains account of the Lapps' regard of the name as a kind of soul. A man might possess the character of a dead kinsman if he adopts his name. Re-baptism in case of an illness was used providing a new name and thus a protective spirit. Lappish belief in re-birth. noted.

**Copy seen:** DLC; InU

**20685. BILLSON, CHARLES J.** Prayers, Finns and Lapps. (In: Hastings, James, ed. Encyclopaedia of religion and ethics, 1919, v. 10, p. 181-82)

Contains notes on idolatry, reincarnation, shamanism, and the use of special means, incantation and the magic drumming, among the Lapps.

**Copy seen:** DLC; InU.

**20686. BINAME, R. P.** Le Canada arctique. (Société Royale de Géographie d'Anvers. Bulletin, 1949. t. 63, p. 5-36) **Title tr.:** The Canadian Arctic.

Contains general description of the physical and economic geography, climate, flora and fauna, and inhabitants native to the Canadian Arctic.

**Copy seen:** DLC.

**20687. BINGHAM, E. W.** The Antarctic expedition from a medical angle. (Medical press, 1948. v. 219, p. 185-88)

Following remarks on the qualities

desirable in an expedition doctor, author describes a base house, medical equipment and stores; discusses lowered immunity, surgery, alcohol, food and vitamins, dentistry, frostbite, and snow-blindness. **Copy seen:** DSG.

**20688. BINGHAM, E. W.** A greenhouse in the Antarctic. (Polar record, Jan. 1952, v. 6, no. 43, p. 392-93, plate)

Contains description with dimensions, materials, construction and heating methods, etc., and photographs of a greenhouse built Stonington Island 68°7' S. 66°30' W. **Copy seen:** DLC.

**20689. BIRD, JOHN BRIAN.** Geographical and archeological investigations on Southampton Island, 1950. (Arctic circular, Jan. 1951, v. 4, p. 10-12)

Work during June-Aug. of a party of four sent by the Geographical Branch, Dept. of Mines and Technical Surveys, Ottawa, to investigate (1) extent of post-glacial marine submergence, (2) the highest level reached by the sea and its influence on the terrain, (3) the relationship between Eskimo sites and raised shorelines; and (4) to establish a relative chronology for various Eskimo occupations of the island.

**Copy seen:** CaMAI; DLC.

**20690. BIRD, JOHN BRIAN.** The physiography of the middle and lower Thelon basins. (Geographical bulletin, 1951, No. 1, p. 14-29, illus., sketch maps)

Author outlines general physiography of the relatively accessible but still unexplored District of Keewatin west of Hudson Bay; the field study made by a four-man party under the Canadian Geographical Bureau, of the Thelon basin west from Baker Lake to Hornby Point in the Thelon Game Sanctuary during July-Aug. 1948. He remarks on evidence of ice movement in Thelon basin, applies theory of the icecap, centered in Hudson Bay, notes evidences of glaciation observed throughout the region and modification of the landscape due to glaciation; local effects of climate, particularly frost action. On the basis of present physiography and topography Thelon basin is divided into five physiographic regions, and each is described in detail.—From author's abstract. **Copy seen:** CaMAI.

**20691. BIRDELL, JOSEPH B.** The problem of the early peopling of the Americas as viewed from Asia. (In: Viking Fund Summer Seminar in Physical

Anthropology, 4th Sept. 1949. Papers on . . . the American Indian, 1951, p. 1-68, 68a)

A reconstructed pattern of the peoples of eastern Asia, as well as the scanty archeological evidence suggest a di-hybrid origin of the American Indians. The two racial elements present in northeastern Asia at the assumed time of peopling of the New World were Amurians and Mongoloids, the former occupying temperate Asia since early times, the latter rapidly evolved at the end of the Pleistocene in northeastern Asia, under extreme, dry, arctic condition. Present-day Indians reveal two apparent centers of Amurian traits: the Cahuilla tribes of inland southern California, and the Pomo and Yuki tribes of coastal northern California. Author believes that the reconstructions of various specialists have been greatly influenced by their specific methodological approaches and there is considerable doubt as to the biological validity of their techniques. He calls for a reevaluation of basic biological assumptions now in use, and introduction of new methods and approaches. Bibliography (70 items).

**Copy seen:** DAI.

**20692. BIRKELAND, BERT JOHANNES, 1879-** . Old meteorological observations at Trondheim. Atmospheric pressure and temperature during 185 years. (Geofysiske publikasjoner, 1949, p. 1-38, 8 tables)

"Records of temperature and pressure made at or near Trondheim during a 185-year period (1761-1946) are presented in detail, along with biographical material on each of the observers and description of exposures, instruments, methods of reduction and correction of data, etc. Not only the monthly and annual means, but the departures from 'normal,' the means for various periods, the extremes of pressure and temperature and some precipitation data (1854-1885) are tabulated and discussed."—*Meteorological abstracts and bibliography*, July 1952, v. 3, no. 7, p. 767.

**Copy seen:** DWB; MH-BH.

**20693. BIRKENGOF, ANDREĬ L'VOVICH, 1903-** . Spisok shlapnykh grabov doliny i del'ty r. Indigirki. (IĀSSR), sobrannykh A. L. Birkengofom v 1929-1930 gg. (Moskovskoe obschestvo ispytatelei prirody. Būlleten', 1936. Otdel biol. Novafā serifa. t.

45, vyp. 5, p. 322-26) **Title tr.:** List of gill fungi collected in the valley and delta of the Indigirka River (Yakut ASSR) by A. L. Birkengof in 1929-30.

*Contains* a list of 18 species of gill fungi (Hymenomycetes) with localities and data on habitat, collected by the author in the Indigirka valley (62°-71°30' N.), and determined by L. A. Lebedeva; includes ten species new to mycological flora of the Yakut region. Summary in French.

**Copy seen:** DLC; MH-Z.

**20694. BIRKET-SMITH, KAJ, 1893-** . The composite comb in North America. (Ethnos, Stockholm, 1937. Bd. 2, no. 2, p. 33-37)

*Contains* remarks on the possibility of an Oceanic origin of the composite combs known in both Americas.

**Copy seen:** DSI-M; InU.

**20695. BIRKET-SMITH, KAJ, 1893-** . Early collections from the Pacific Eskimo. (Pub in: Ethnographical Studies, published on the occasion of the centenary of the Ethnographical Department, National Museum. København, 1941. Nationalmuseets skrifter. Ethnografisk række 1, p. 121-63, illus.)

*Contains* a description of Eskimo (and a few other) objects (in the Danish National Museum) from Kodiak also a few Aglemiut (mainland Eskimo) objects. They were collected by Henrik Johan Holmberg, q. v., a Finnish naturalist who sojourned on Wrangell Island in 1850-51, and taking part in a scientific expedition to the western parts of the Russian possession in 1851 visited Kodiak also. Following an outline of the ethnography of Kodiak, the following types of objects are described in detail and photographically reproduced; dresses and ornaments; hunting implements; household tools and wares; ceremonial objects, etc. The descriptions include comparisons with similar objects of other tribes or areas, mode and circumstances of use, etc. Bibliographical notes are appended.

**Copy seen:** DLC.

**20696. BIRKET-SMITH, KAJ, 1893-** . Eskimo cultures and their bearing upon the prehistoric cultures of North America and Eurasia. (In: International symposium on early man. Academy of Natural Sciences of Philadelphia, 1937. Early man, p. 293-302)

*Contains* discussion on archeological and ethnological problems of the Eskimo

mos' cultural origin. Thule, Dorset and Bering Sea cultures are reviewed, with conclusion "that archeology so far leaves us in the dark, when we ask about the origin of Eskimo culture." Turning to ethnology, the author describes the Caribou Eskimos of the Barren Grounds of Canada west of Hudson Bay, as having no connection with the sea, hunting caribou and fishing, their culture of an extremely primitive character; he suggests these Caribou Eskimos to be the last remnant of the primitive or Proto-Eskimo people. The Indians of the interior regions of Canada are noted as having in summer practically the same life as the Eskimos, but in winter a life entirely dependent upon the snowshoe. Two periods in the cultural development of northern North America are stressed: (1) characterized by ice-fishing (Caribou Eskimos); and (2) characterized by sealing on the ice (coastal Eskimos), or by hunting on snowshoes (woodland Indians). Ice-fishing survived to a remarkable extent also among the Yukaghirs, and there are reasons for believing that the ice-fishing culture once extended over the whole circumpolar region.

**Copy seen:** DLC.

**20697. BIRKET-SMITH, KAJ, 1893-** , and others, editors. Grønlands bogen. [København] Udg. med Det Grønlandske Selskab, J. H. Schultz forlag, 1950. 2 v. (318, [1] p.; 353, [2] p.) illus., plates, maps, diags. **Title tr.:** Book of Greenland. *Other editors:* E. Mentze and M. F. Møller.

Collection of twenty-nine papers, introduced by K. Birket-Smith, which describe the nature, people, social and economic conditions of Greenland from early times to the present day. Index at end of v. 2, and bibliographies at the end of most papers.

**Contents tr. v. 1. BIRKET-SMITH, K.** Introduction. p. 7-14.

BIRKET-SMITH, K. Discovery and exploration. p. 15-40.

GABEL-JØRGENSEN, C. C. A. Cartography. p. 41-62.

RIIS-CARSTENSEN, E. Waters around Greenland. p. 63-84.

NOE-NYGAARD, A., and A. ROSENKRANTZ. Geologic and physiographic history. p. 85-116.

MILTHERS, K. Inland ice. p. 117-36.

PETERSEN, H. Climate and weather service. p. 137-56.

BÖCHER, T. W. Vegetation. p. 157-80.

VIBE, C. Animal life. p. 181-204.

LARSEN, H. Greenlanders. p. 205-252.

ROUSSELL, A. Norsemen. p. 253-74.

GAD, F. Recent colonization to 1939. p. 275-304.

BRUN, E. Greenland during World War II. p. 305-318.

v. 2. BRUN, E. Greenland after the war. p. 5-16.

OLDENDOW, K. The course of administration and justice; relations between Danes and Greenlanders. p. 17-38.

SVEISTRUP, P. P. Greenland trade. p. 39-58.

HANSEN, P. M. Hunting and fishing industries. p. 59-82.

CHRISTENSEN, K. N. Agriculture. p. 83-94.

BØGGVAD, R. Greenland's mineral resources. p. 95-120.

TVING, R. Greenland's shipping. p. 121-46.

OVERBYE, E. J. Flying in Greenland. p. 147-60.

SAXTORPH, S. M. Health conditions. p. 161-78.

BORUM, V. Greenlandic schools and other cultural institutions. p. 179-206.

BUGGE, A. Church of Greenland. p. 207-224.

THALBITZER, W. History of Greenlandic literature. p. 225-50.

MIKKELSEN, E. East Greenland. p. 251-68.

HOLTVED, E. Thule District. p. 269-90.

KOCH, H. H. Greenland Commission and its proposal. p. 291-320.

NIELSEN, F. The new Greenland law. p. 321-34.

HEDTOFT, H. The future Greenland. p. 335-37.

Each of these papers appears in this Bibliography under its author's name.

*Copy seen:* DSI-M.

20698. BIRKET-SMITH, KAJ, 1893- .

Inledning. (In his, & others: Grønlands bogen, 1950. v. 1, p. 7-14, incl. plate)

*Title tr.:* Introduction.

*Contains* brief, general characterization of Greenland's physical extent and features, and its relation to neighboring countries geographically and historically.

*Bibliography* (12 items).

*Copy seen:* DSI-M.

20699. BIRKET-SMITH, KAJ, 1893- .

Opdagelse og udforskning. (In his, and

others: Grønlands bogen, 1950. v. 1, p. 15-40, illus., incl. 3 maps)

*Title tr.:* Discovery and exploration.

*Story* of early Norse colonists of Greenland and their disappearance, the re-discovery and annexation of Greenland;

modern scientific exploration there to 1933. *Bibliography* (7 items).

*Copy seen:* DSI-M.

BIRKET-SMITH, KAJ, 1893- , *see also*

Sanders, I. T. Societies around the world. 1952. No. 25824.

20700. BIRSHTĖIN, IĀ. A. Materialy po geograficheskomu rasprostraneniū

vodnykh zhivotnykh SSSR, 5. O nekotorykh osobennostyakh geograficheskogo

rasprostraneniū presnovodnykh Malacostraca Dal'nego Vostoka. (Zoologicheskii zhurnal, 1939. t. 18, vyp. 1,

p. 54-69, illus.) *Title tr.:* Materials on geographic distribution of aquatic

animals of the U.S.S.R., 5. On some peculiarities in the geographic distribution

of fresh-water Malacostraca of the Far East.

*Contains* a list of 39 species of fresh-water crustaceans of the suborder Malacostraca native to the Soviet Far East,

including some occurring in Kamchatka Peninsula, Anadyr' and Chukotsk regions

and Shantar Islands, with data on composition (recent immigrants and ancient

fresh-water inhabitants) and origin of this fauna; *bibliography* (50 items).

*Summary* in English.

*Copy seen:* MH-Z.

20701. BIRSHTĖIN, IĀ. A., and L. G. VINOGRADOV. Novye i redkie de-

śiatinogie rakoobraznye Okhotskogo moriā i Kuril'skikh vod. (Akademiā nauk SSSR, 1951. Doklady. Novaiā

seriā, t. 79, no. 2, p. 357-60, illus.) *Title tr.:* New and rare decapods of the

Okhotsk Sea and Kurile Islands waters.

*Contains* critical notes on nine new or rare decapods collected mostly

in the central part of the Sea of Okhotsk or near the Kurile Islands, but some were

caught near Cape Lopatka, southern Kamchatka. Three species are new to the

Okhotsk and a new shrimp described as *Sclerocrangon monodon* n. sp. was caught

in the Pacific Ocean near Kurile Islands.

*Copy seen:* DLC; MH-Z.

20702. BIRSHTĖIN, IĀ. A., and L. G. VINOGRADOV. Presnovodnye Decapoda SSSR i ikh geograficheskoe ras-

prostranenie. (Zoologicheskii zhurnal,

1934. t. 13, vyp. 1, p. 39-70, illus., text maps) **Title tr.:** Fresh-water Decapoda of the U.S.S.R. and their geographic distribution.

**Contains** a critical revision of fresh-water decapods of the U.S.S.R. with synopsis of the families, genera and species and a systematic list of twenty-five (six species and subsp. new), brief descriptions, synonymy and data on ecology and distribution. Includes *Astacus leptodactylus boreoorientalis* n. subsp. occurring in the Severnaya Dvina, near Arkhangel'sk. Bibliography (65 items). Summary in German.

**Copy seen:** DLC; MH-Z.

**20703. BIRSHTĚIN, ĪĀ. A.** Tonkopanfsyrnye rakobraznye (Leptostraca) Beringova i Okhotskogo moref. (Akademiiā nauk SSSR. Doklady. Novaiā seriā. 1951. t. 78, no. 6, p. 1251-54, illus.) **Title tr.:** Leptostraca of the Bering and Okhotsk Sea.

**Contains** descriptive notes on three crustaceans of the order Leptostraca, including *Nebaliopsis typica* collected for the first time in the Bering Sea and *Epinebalia pugettensis* and *Nebalia bipes* from the Okhotsk Sea.

**Copy seen:** MH-Z.

**20704. BIRSHTĚIN, ĪĀ. A.** Zametka o Decapoda iz planktona, sobrannogo vo vremiā plavaniā ledokolov "Sadko" i "Litke" v Arktike. (Moskovskoe obshchestvo ispytatelei prirody. Būlleten', 1938. Otdel biol. Novaiā seriā. t. 47, vyp. 3, p. 199-209, illus.) **Title tr.:** Note on the decapods of plankton collected during the voyage of the ice-breakers *Sadko* and *Litke* in the Arctic.

**Contains** a study of larvae of seven species of crustaceans of the order Decapoda, collected by V. G. Bogorov in eastern section (Chukchi Sea and adjacent arctic waters) during the voyage of the *Sadko* in 1935 and *Litke* in 1934; with synonymy, descriptive notes, and data on ecology, habitat and geographic distribution; a key for determination of larvae of arctic Decapoda of Eurasia and a bibliography (29 items). Summary in French.

**Copy seen:** DLC; MH-Z.

**BIRSHTĚIN, ĪĀ. A.,** see also Bobrinskoi, N. A., & others. Geog. zhivotnykh. 1948. No. 20742.

**BIRULĪĀ, A. A.,** see Bālyniŭskil-BirulĪĀ Alekseĭ Andreevich, 1864-1937.

**20705. BISHOP, SHERMAN CHAUNCEY, 1887-** Spiders of the Nueltin Lake Expedition, Keewatin, 1947. (Canadian entomologist, Apr. 1949. v. 81, p. 101-104, plate) List of eleven, including with description one new, species (*Pardosa harperi* n. sp) collected by Dr. F. Harper. Bibliography (5 items).

**Copy seen:** DSI-M.

**BIXBY, E. W.,** see Spealman, C. R., & others. Observ. energy metabolism & water balance of men. 1948. No. 26380.

**BJARNASON, ÓLAFUR,** see Sigurdsson, B., & Ó. Bjarnason. Immunological studies epidemic influenza Iceland. 1948. No. 26198.

**20706. BJERRUM, NIELS.** Structure and properties of ice. (Science, 1952. v. 115, no. 2989, p. 385-90, illus., tables, diags.)

**Contains** sections on molecular structure of ice, its crystal structure and configuration; heat of sublimation; zero point entropy; changes in configuration and molecular turns; plasticity of ice, etc. Bibliography (15 items).

**Copy seen:** DLC.

**20707. BJERRUM, NIELS.** Structure and properties of ice. I. Position of the hydrogen atoms and the zero-point entropy. II. Change in configuration and molecular turns. III. Ionisation of ice and molecular turns produced by the ions. The proton jump conductivity of ice (and water). København, E. Munksgaard, 1951.

56 p. tables, diags. (Danske Videnskabernes Selskab. Matematisk-fysiske Meddelelser. Bd. 27, nr. 1)

**Copy seen:** DGS; DLC.

**20708. BJÖRKBOM, CARL.** Two Bering maps in the Royal Library at Stockholm. Addendum by G. Montell. (Ethnos, Stockholm, 1941. Bd. 6, no. 3-4, p. 128-34, 3 illus., plate)

**Contains** description and comments on two anonymous, undated hand-drawn maps, delineating Siberia from Tobolsk to Bering Strait and entitled "Map compiled during Captain Bering's Siberian expedition from Tobolsk to Cape Chukotskoj." One, drawn in india ink on paper (58 x 135 cm.), with Russian title and place names, is decorated with ten water-color sketches of various ethnic types of northern Asia. The other is similar but simpler in execution, lacking the water-color sketches, and having the

(more numerous) place names transcribed into Latin characters, some being translated into Swedish. In "Addendum" G. Montell comments on the ethnic types drawn and named on the first map.

**Copy seen:** InU.

**20709. BLACK, ROBERT FOSTER, 1918-** . Eolian deposits of Alaska. (Arctic, Sept. 1951. v. 4, no. 2, p. 89-111, illus., maps)

Based on the author's visit of the major areas of eolian (wind) deposits of Alaska and on published and unpublished information from other workers (whose areas of detailed studies are indicated on map 2). Author notes that only a small proportion of the eolian deposits can be shown on map (1) due to complexities caused by vegetation, reworking of streams, frost action, etc., which tend to obliterate or remove the deposits. Three major groups of eolian deposits (of Pleistocene to Recent age) are dealt with: those of the coastal plain of northern Alaska, the areas associated with glacial streams and the coastal margins. The extent, size, morphology, probable genesis and subsequent changes of the deposits are discussed, together with their character, composition, age, etc. A brief account of ash deposits concludes the paper. Bibliography (about 40 items).

**Copy seen:** DLC.

**20710. BLACK, ROBERT FOSTER, 1918-** . Graphs for visual comparison of several factors in heat exchange near Barrow, Alaska. (Geological Society of America. Bulletin, Dec. 1951. v. 62, p. 1546-47)

Abstract of paper presented at American Association for Advancement of Science, Sect. E, Philadelphia, Dec. 27-28, 1951.

**Copy seen:** DGS.

**20711. BLACK, ROBERT FOSTER, 1918-** . Permafrost. (In: Applied sedimentation, edited by Parker D. Trask. New York, John Wiley 1950, p. 247-75, map, graphs)

"Conventional construction methods cannot be used in permafrost areas. Adequate precautionary measures are assured by a preliminary study determining whether the permafrost is growing, is stationary, or is receding. Construction techniques not disturbing the permafrost are termed passive methods, and procedures involving removal or continual thawing of the permafrost are called

active methods."—SIPRE. Bibliography (109 items).

This paper was reprinted with slight changes (see item following).

**Copy seen:** DGS; DLC.

**20712. BLACK, ROBERT FOSTER, 1918-** . Permafrost. (In: Smithsonian Institution. Annual report for the year ending June 30, 1950, pub. 1951, p. 273-301, incl. illus., graphs)

"Much of northern Asia and northern North America contains permafrost or perennially frozen ground. Permafrost achieves a maximum thickness of 1000-2000 feet at some distance south of the Arctic Ocean. The temperature within the frozen mass varies from 0 to -12° C. Permafrost represents an impervious zone and greatly increases the amount of groundwater in the overlying areas. The seasonal freezing and thawing of this saturated soil accelerates weathering processes and results in slides and soil flows which modify existing landforms. Foundations for buildings and roads may be damaged or destroyed through frost action associated with permafrost regions. Stability of structures may be assured by use of proper insulation to prevent thawing of the permafrost layers or by removal of the permafrost accompanied by a backfill of suitable ballast material. The water in permafrost regions has a high mineral content and is not readily available for normal consumers' use. The disposal of sewage through the impervious frozen layers is impossible and represents a major engineering problem. A thorough understanding of permafrost and permafrost problems must be obtained through study and research on the heat transfer relations between the earth's constituents and the atmosphere. Numerous geological and engineering problems remain to be examined by laboratory and field techniques."—SIPRE. Bibliography (116 items).

This paper is a reprint of the item above with minor modifications and some new references, "but no attempt has been made to revise the paper completely or to list all new permafrost papers."

**Copy seen:** DLC.

**20713. BLACK, ROBERT FOSTER, 1918-** . Polygonal patterns and ground conditions from aerial photographs. (Photogrammetric engineering, Mar. 1952. v. 18, no. 1, p. 123-34, 10 illus.)

Contains presentation of polygons as a micro-relief feature of potential use in

aerial photographic interpretation techniques to determine permafrost or seasonal frost action. Author (1) reviews literature in which polygons are described and in which their significance in interpretation of their physical environment is appraised; (2) emphasizes the widespread distribution of these features and their complexity. The physical environments, multiplicity of forms in different environments and their origins are pointed out; results of some recent research on ice-wedge polygons in northern Alaska are used to refute some statements occurring in the literature.—Foreword. Author notes that knowledge of ice-wedge polygon growth and arctic geomorphology enables the air-photo interpreter to obtain data on size-grade distribution of material, depth of seasonal thaw, and moisture content in the active layer and in permafrost, information required in most construction problems. Bibliography (56 items).

**Copy seen:** CaMAI; DLC.

**20714. BLACK, ROBERT FOSTER, 1918- .** Structures in ice wedges of northern Alaska. (Geological Society of America, Bulletin, Dec. 1951. v. 62, p. 1423-24) Abstract of paper submitted to meeting of the Society, Detroit, Nov. 8-11, 1951.

Contains remarks on air bubble bands with inclusions, growth and deformation fabrics observed in petrofabric studies of ground ice wedges near Barrow, Alaska.

**Copy seen:** DGS.

**20715. BLAIR, HUGH M. S.** Fuglefauna omkring Varangerfjord 1923-27. Norsk ornithologisk tidsskrift, 1927. Ser. 3, nr. 8, p. 37-43) **Title tr.:** Avifauna around Varanger Fiord 1923-27.

Annotated list of 130 species of birds.

**Copy seen:** DI.

**BLAIZOT, JEAN, see Blaizot, S., & J. Blaizot.** Créatinurie du froid rat blanc. 1948. No. 20716.

**20716. BLAIZOT, Mme. SIMONE, and J. BLAIZOT.** La créatinurie du froid chez le rat blanc: influence de la thyroïde et de la vitamine B1. (Académie des Sciences, Paris. Comptes rendus, Mai 31, 1948. t. 226, no. 22, p. 1838-40) **Title tr.:** Cold creatinuria in the white rat: the influence of the thyroid and of vitamin B1.

Contains a study on the output of urinary creatine in normal and etherized

animals and in such injected with vitamin B1. Creatinuria due to cold was found to be a secondary manifestation of thyroid stimulation, provoked by decrease in temperature; it is of a transitory nature and characteristic of the period of cold adaptation. **Copy seen:** DLC.

**20717. BLANCHET, GUY HOUGHTON, 1884- .** The Canol project. (Canadian surveyor, July 1944. v. 8, no. 5, p. 2-7)

Story of the reconnaissance in 1942-43, and planning of the route for the pipeline connecting Norman Wells in Mackenzie District with Whitehorse in Yukon Territory. **Copy seen:** DLC.

**20718. BLANTON, F. S., and others.** Control of adult mosquitoes in Alaska with aerial sprays. (Journal of economic entomology June 1950. v. 43, p. 347-350) **Other authors:** B. V. Travis, C. N. Smith, and C. N. Husman.

Results of "large-scale spray test with DDT for the control of mosquito larvae" made in the summer of 1949, under funds allotted by the National Military Establishment to the Bureau of Entomology and Plant Quarantine, in the forested subarctic areas near Fairbanks and on the treeless tundra above the Arctic Circle (Umiat and Oumalik). The tests were "to determine whether mosquitoes would fly from surrounding unsprayed areas into plots . . . in sufficient numbers to be annoying, and to test the effectiveness of several DDT formulations applied at various dosages."

**Copy seen:** DLC.

**20719. BLANTON, F. S., and others.** Control of Alaskan mosquito adults by aerial sprays. (Journal of economic entomology, Feb. 1949. v. 42, p. 106-109) **Other authors:** C. N. Husman, B. V. Travis, and C. S. Wilson.

Results of tests, 1948, under funds allotted by U. S. Dept. of National Defense to the Bureau of Entomology and Plant Quarantine, "to determine the size of area necessary to treat in order to prevent infiltration in annoying numbers from the surrounding unsprayed areas, to obtain information on the numbers of times an area must be treated to protect a community from mosquitoes, and to establish the minimum effective dosage of DDT."

**Copy seen:** DLC.

**20720. BLAUVELT, HELEN HAYDEN.** The comparative morphology of the secondary sexual organs of *Linyphia* and

some related genera, including a revision of the group. In: Festschrift Dr. E. Strand, Bd. 2, pub. 1936, Heft 1, p. 81-171, plates 6-23)

*Contains* a morphological study of secondary sexual organs of arachnid genus *Linyphia* and six related genera and a critical revision of this group, with keys to the genera and species, descriptions, critical notes, synonymy and data on distribution (list of localities for each species). Includes four species from Alaska and four from Labrador.

**Copy seen:** DSI-M; MH-Z.

**20721. BLENCK, ERNA, and H. BLENCK.** Farbenfrohes Finnland; romantische Autoreise von Helsinki zum Eismeer. Hannover, H. Osterwald [1952]. 172 p. illus. **Title tr.:** Colorful Finland; a romantic auto trip from Helsinki to the Arctic Sea.

*Contains* an account of extensive travels throughout Finland at all seasons of the year, including trips over the road from Rovaniemi northward to the coast (p. 15-92); with full-page color photographs (p. 93-172) of the more important or picturesque aspects of the landscape, people and their activities, buildings, etc.

**Copy seen:** DLC.

**BLENCK, HELMUT, see Blenck, E., & H. Blenck.** Farbenfrohes Finnland. 1952. No. 20721.

**20722. BLISS, WESLEY L.** Early man in western and northwestern Canada. (Science, Apr. 21, 1939. v. 89, no. 2312, p. 365-66)

*Contains* report on two discoveries made in Canada by the anthropological field party of the University of New Mexico in 1937 and 1938 as part of a program of "work in glaciated and unglaciated areas of Western Canada and Alaska to correlate, if possible, some of the early cultures with glacial chronology. Yuma sites were located in south-eastern Alberta and southwestern Saskatchewan (the Folsom points of Alberta may be dated as post-Pleistocene). Artifacts found near Loon Lake at the top of a pass between the Mackenzie and Yukon drainages about 80 miles south of the arctic coast, are similar to those found at Lake Mohave, Calif. The two discoveries contribute to the problem of the existence of man in North America during the Pleistocene or ice age, and to that of the possible early migration routes from Asia.

**Copy seen:** DLC.

**BLOMBERG, ERIK, see Finlandia pictorial.** Arctic fury. 1950. No. 21799.

**20723. BLOMQUIST, HARRY E.** Mediansagittalbogen und grösste Hirnschädelänge der Lappen Finnlands. Helsinki, 1943. 22 p., tables. (Suomalainen tiedeakatemia. Annales Academiae Scientiarum Fennicae, A56:5) **Title tr.:** Median sagittal arch and largest cranial length of the Finnish Lapps.

Report is based on a study of 180 skulls and largely tabulated. The results are compared with earlier studies. Bibliography (21 items). **Copy seen:** DLC.

**20724. BLOMQUIST, HARRY E.** Morphologisch-anthropometrische Untersuchungen über das Hinterhauptbein der Lappen Finnlands. Helsinki, 1939. 275 p., illus., diagrs., tables. (Suomalainen tiedeakatemia. Annales Academiae Scientiarum Fennicae, A50:2) **Title tr.:** Morphologic-anthropometric investigations on the occipital bone of the Finnish Lapps.

*Contains* study on 180 Lappish skulls from the Anthropological Museum of Helsinki University, with chapters on earlier investigations, material, methods and statistical evaluation, morphological study, metric study, asymmetries of the occipital bone, sexual differences, mean variations, etc. Bibliography (over 250 items).

**Copy seen:** DLC.

**20725. BLOMQUIST, EDV., and others.** Redogörelse afgiven af arbetsutskottet för undersökning af de Finska insjöarnas vatten och plankton, II. Optisk och kemisk undersökning af i Kemi, Uleå och Kumo älf samt Kymmene och Saima system från Juni 1913 till Juni 1914 månatligen tagna vattenprof., af Rolf Witting. Helsingfors, 1913-15. 21 p., tables. (Fennia 35:7) **Title tr.:** Report of the working committee for the investigation of the water and plankton of the Finnish inland waters. II. Optical and chemical investigations of water samples taken from the Kemi, Uleå and Kumo Rivers as well as from the river courses of the Kymmene and the Saima from June 1913 till June 1914, by Rolf Witting.

The samples were taken at least once a month in each locality reported. The analyses cover coefficients of extinction and transmission; the content in organic and inorganic substances of the water and the mud; alkalinity; Cl, SO<sub>4</sub> and CaO content. Summary in German.

**Copy seen:** DLC.

**20726. BLOMQVIST, HUGO. M. A.** Castrén's resor. Helsingfors, 1903. 13 p. (Geografiska föreningen i Finland. Meddelanden. v. 6, no. 11) *Title tr.:* M. A. Castrén's travels.

Contains a brief biography of this Finnish linguist (1813-1852) and accounts of his first trips to Lapland in 1838 and 1841). His trip of 1843 among the Samoyeds is described and his great journey through Siberia including the arctic coast in 1845-49, during which he studied the Samoyeds and Ostyaks. Twelve volumes of his travel reports and letters from the North were published after his death. Summary in German.

*Copy seen:* DLC.

**20727. [BLOWITZ, HENRI GEORGES STEPHANE ADOLPHE OPPER de], 1825-1903.** The Behring Sea arbitration. Letters to the Times by its special correspondent; together with the award. Reprinted by permission of the proprietors. London, W. Clowes & Son Ltd., 1893. 87, [1] p.

Contains an historical outline of the pelagic sealing controversy following U. S. seizure of British vessels near the Pribilof Islands; correspondent's report step-by-step of proceedings in the arbitration of sealing rights, regulations proposed by the U. S. and by Great Britain; full text of the arbitrators' award at Paris 1893.

*Copy seen:* DLC.

**20728. BLÜTHGEN, JOACHIM.** Die Erschliessung der Polargebiete seit 1939. (Petermanns geographische Mitteilungen, 1950. Jahrg. 94, p. 140-49, 2 sketch maps) *Title tr.:* The exploration of polar regions since 1939.

Drawn from the *Polar record*, v. 5, 1947-49, a review of the work of various countries in the Arctic and Antarctic; notes on institutions, scientists and explorers and on publications concerned with the polar regions.

*Copy seen:* DGS.

**20729. BLUM, HAROLD FRANCIS.** Photodynamic action and diseases caused by light. N. Y., American Chemical Society, 1941. xii, 309 p., illus., diagrs. (Its: Monograph series, no. 85)

Contains a comprehensive study with an introductory part on the nature of radiation and its effects, and the biological effects of radiation, followed by sections on: photodynamic action; diseases of domestic animals produced by light and

diseases produced by light in man. Snow blindness, and "glacier blindness" are dealt with on p. 277. Bibliography (nearly 1000 items).

*Copy seen:* DLC.

**BLUM, HAROLD FRANCIS, see also** National Research Council. Subcommittee on Clothing. Clothing test methods. 1945. No. 24577.

**20730. BLY, CHAUNCEY G., and others.** Nutritional requirements of men living under survival conditions in cold weather. (Federation proceedings, Mar. 1949. v. 8, p. 378) *Other authors:* R. E. Johnson and C. F. Consolazio.

For men doing no hard physical work and adequately outfitted against cold, nutrient balance could be maintained by 3400 calories, 2.7 liters water, including beverage, food and metabolic water, 50 gm. protein, mostly animal, 135 gm. fat, 400 gm. carbohydrate, 1.1 gm. calcium, 1 gm. phosphorus, 100 mEq. sodium, 85 mEq. chloride, 20 mEq. potassium. This is daily ration for a man of average (70 kg.) weight.

*Copy seen:* DLC.

**20731. BLY, CHAUNCEY G., and others.** Survival in the cold. (U. S. Armed Forces medical journal, June, 1950. v. 1, no. 6, p. 615-28, diagrs., tables)

Contains report on a study of 32 heat-acclimatized men transferred by air from MacDill Air Force Base, Fla. to bivouac at Camp Shilo in Manitoba, Canada, in winter. The study was designed to gain information problems of adaptation involved in transporting troops into cold regions. The following studies were made and statistically analyzed: anthropometric measurements (weight, height, surface area, etc.) dietary history; medical examination and history; psychiatric observations; functional observations; biochemical measurements; balance studies; hematologic and endocrine measurements; utility, stability and acceptability of rations. Reactions of the objects to cold were studied both as related to diet and independently of it. The experiment offered clear answers on the balance requirements for calories, water, protein, carbohydrate, fat, sodium, potassium, chloride, calcium, and phosphorus. Biochemical, physiologic and hematologic observations suggested that during the first 2 days of abrupt exposure to cold, the men exhibited a general adaptation syndrome, with stimulation

of the pituitary-adrenocortical system. Bibliography (3 items).

**Copy seen:** DSG.

**BLY, CHAUNCEY G.**, see also Johnson, R. E., & others. Metabolic changes heat acclimatized men during cold. 1949. No. 23006.

**20732. BLYTH, DOUGLAS.** Arctic patrols of the Royal Canadian Mounted Police, 1946-48. (Polar record, July 1950. v. 5, no. 40, p. 590-600)

*Contains* summary (drawn from full reports supplied by Commissioner of the R. C. M. P. Ottawa) of six patrols in 1946, one in 1947 and three in 1948. Itinerary, travel time, weather etc., are noted as well as the native settlements visited and wildlife observed en route. The purposes of the patrols are indicated — usually to register children under the Family Allowance Act, record vital statistics, report on native welfare, ascertain local game conditions, enforce game laws, and occasionally to investigate a native death. These patrols took place in the area between Pond Inlet (on northern Baffin Island), Craig Harbour (Ellesmere Island), Resolute Bay (Cornwallis Island), Cambridge Bay (Victoria Island), Chesterfield Inlet (West Hudson Bay) and Igloodik, roughly 63°-76° N. 78°-105° W.

**Copy seen:** DLC.

**20733. BLYTH, J. D.** German meteorological activities in the Arctic, 1940-45. (Polar record, July 1951. v. 6, no. 42, p. 185-226, maps) Erratum, no. 44, p. 583.

*Contains* an account based on an unpublished report by Franz Nusser (of Deutsches Hydrographisches Institut), R. Holzapfel, *Du Tätigkeit des deutschen Wetterdienstes der Luftwaffe in der Arktis während des Krieges*, 1950-51 q. v., also on unpublished papers (in Scott Polar Research Institute) by Otto Kraul and Wilhelm Dege. During 1940-45, thirteen parties were sent by the German navy to Svalbard, East Greenland and Franz Josef Land, and three by the air force to West Spitsbergen and Hopen, in addition to routine flights from bases in Norway. The aim was to obtain synoptic weather data enabling forecasts on the influence of the polar front on European weather. Each of these parties or operations is described in detail, with data on personnel, itinerary, duration, objectives, equipment, on the meteorological and ice observations made, also other studies (in geology, etc.) carried out; evacuation or

surrender of the depots is noted. The development of two types of automatic weather stations is described and the limiting factors of their war-time operation indicated (p. 202-203, 224-25).

**Copy seen:** DLC.

**20734. BLYTT, AXEL GUDBRAND, 1843-1898.** Bidrag til kundskaben om Norges soparter, IV. Peronosporaceae, Chytridiaceae, Protomycetaceae, Ustiliginaceae, Uredineae. Christiania, A. W. Brøgger, 1896. 75 p. (Norges videnskaps-akademi, Oslo. Forhandling, 1896, no. 6) **Title tr.:** Contributions to the knowledge of Norwegian fungi: IV. Peronosporaceae [etc.].

*Contains* a survey of 330 species of parasitic fungi of the five families mentioned in the title, divided into five natural groups. They include 62 arctic and 131 subarctic species, and a systematic list of all these species is given with localities, host plants and occasional notes. Many species native to the northern province of Norway are included.

**Copy seen:** MH-Z.

**20735. BLYTT, AXEL GUDBRAND, 1843-1898.** Bidrag til kundskaben om vegetationen i den lidt sydfør og under Polarkresden liggende deel af Norge. (Norske videnskaps-akademi, Oslo. Forhandling, 1871, pub. 1872, p. 125-81) **Title tr.:** A contribution to the knowledge of the vegetation of the region of Norway slightly to the south of the Arctic Circle.

*Contains* a systematic list of 289 fungi and peat mosses, and 558 flowering plants and vascular cryptogams, collected by the author and the student W. Arnell in the summer of 1870, in the region of Ranenford, close to the Arctic Circle, with data on local distribution.

**Copy seen:** DLC; MH-Z.

**20736. BLYTT, AXEL GUDBRAND, 1843-1898.** Bidrag til kundskaben om vegetationen paa Nowaja Semlja, Wai-gatschöen og ved Jugorstraedet. (Norske videnskaps-akademi, Oslo. Forhandling, 1872, pub. 1873, p. 13-23) **Title tr.:** Contributions to the knowledge of the vegetation of Novaya Zemlya, Vaygach Island and Yugorskiy Shar.

*Contains* a systematic list of 7 algae, 56 lichens, 24 mosses and 107 flowering plants and vascular cryptogams, collected in 1871 by the student Aagaard, during Mr. A. Rosenthal's expedition on

the steamer *Germania* to Novaya Zemlya. The cryptogams were determined by Dr. Schübler, Th. Fries and N. Wulfsberg. **Copied seen:** DLC; MH-Z.

**20737. BLYTT, AXEL GUDBRAND, 1843-1898.** Nye bidrag til kundskaben om karplanternes udbredelse i Norge. Christiania, A. W. Brøgers bogtryk., 1898. 40 p. (Norske videnskaps-akademi, Oslo. Forhandling, 1897, pub. 1898, no. 2) **Title tr.:** New contributions to the knowledge of the distribution of vascular plants in Norway.

**Contains** a list of about 500 vascular plants inhabiting Norway, with localities and occasional brief descriptive notes; includes some species native to the northern provinces. **Copied seen:** MH-Z.

**BOAG, T. J., see Brown, M., & others.** Parasitic infections Eskimos Igloodik. 1960. No. 20955.

**20738. BOAS, FRANZ, 1858-1942.** The game of cat's cradle. (Internationales Archiv für Ethnographie, 1888. Bd. 1, p. 229-30, 5 illus.)

**Contains** description of the string game played upon the fingers, which Boas found (1883-84) popular among the Eskimos of Baffin Island, and called there *ajarorpoq*. Later Boas had a letter from John Murdoch reporting that this game had been observed (1881-83) to be enjoyed by Eskimo women in the Pt. Barrow region (*ibid.* 1889, Bd. 2, p. 52). Boas concludes that the game is to be found among the entire northwest coast of America. **Copied seen:** DLC.

**20739. BOAS, FRANZ, 1858-1942.** Indianische Sagen von der nord-pazifischen Küste Amerikas. Berlin, A. Asher & Co., 1895. vi, 363 [1] p., map. Reprint from the Proceedings of the Berlin Society for Anthropology, Ethnology and Prehistory, 1891-1895. **Title tr.:** Indian legends from the North Pacific coast of America.

A large collection of tales and legends of 25 tribes as told directly to the author. Included among them (p. 272-328) are tales of the Tsimshian, Haida and Tlingit Indians of southeast Alaskan region. The last chapter deals with the development of the mythology of the North Pacific coast Indians.

**Copied seen:** DLC.

**20740. BOBIN, E. S., and E. V. LER-MONTOVA.** O drevne-paleozojskikh dvizheniakh v vostochnoi chasti Sibiri-

skoi platformy. (Akademiia nauk SSSR. Izvestiia. Seriia geologicheskai, 1940. no. 1, p. 81-93, illus., fold. table) **Title tr.:** On the early Paleozoic movements in the eastern part of the Siberian platform.

**Contains** a study of geological history of this formation in eastern Yakutia and establishes two different facies with the faunas of the Pacific type in the lower parts of the Middle Cambrian: "A marine carbonate (reef) facies with the fauna of the "Minusinsk" type and a terrigenous, sandstone and shale facies (with a fauna of Oryctocephalos)." Summary in English.

**Copied seen:** DLC; MH.

**20741. BOBKOV, V. A.** Otkhozhdeniye metod razrabotki ledianikh buntov. (Rybnoe khozaistvo, Feb. 1952. v. 28, no. 2, p. 18-19, illus.) **Title tr.:** A breaking-blasting method of dealing with ice packs.

**Contains** a description of two methods of breaking up river or surface ice; one consists of using a specially adapted, pneumatic hammer; the other in blasting the ice through holes drilled in it at regular intervals. Costs, output, etc., are given.

**Copied seen:** DLC.

**20742. BOBRINSKOI, NIKOLAI ALEKSEEVICH, 1890-**, and others. Geografiia zhivotnykh; dopushcheno Vsesoiuznym Komitetom po delam vysshel shkoly pri SNK SSSR v kachestve uchebnika dlia biologicheskikh i geografiicheskikh fakul'tetov gosudarstvennykh universitetov i institutov. Moskva, Gos. izd-vo "Sovetskai nauka", 1946. 453 p., illus., tables. Other authors: L. A. Zenkevich and I. A. Birshtein. **Title tr.:** Animal geography; authorized by the All-Union Committee in charge of higher schools of the Council of People's Commissars of the U. S. S. R. as a textbook for biology and geography faculties of the state universities and institutes.

**Contents:** General data; the fauna of the sea; the fauna of the continental waters; the fauna of the dry land. The arctic areas of the sea are treated in general (p. 95-155) and the Russian seas in particular (p. 155-78); arctic fresh-water fauna (p. 231-33); the land animals of the arctic region (p. 304-324); the arctic fauna of the U. S. S. R.: tundra and taiga areas (p. 343-60).

**Copied seen:** DLC.

**20743. BOBRINSKOI, NIKOLAI ALEKSEEVICH, 1890-**. Geografiia zhi-

votnykh; kurs zoogeografii dlia geograficheskikh fakul'tetov pedagogicheskikh institutov. Dopusheheno v kachestve ucheb. pasobiia dlia pedagog. in-tov. Moskva, Gos. uchebno-pedagog. izd-vo, 1951. 384 p. illus., ports., maps.

**Title tr.:** Animal geography; a course in zoogeography for geographical faculties of pedagogic institutes. Authorized as a teaching aid for pedagogic institutions.

**Contains** three parts: (1) general; (2) fauna of the world; (3) fauna of the U. S. S. R.; pt. 2-3, subdivided into (a) marine fauna, (b) continental fauna. In addition to scattered references throughout the text, the following chapters deal in part or exclusively with arctic fauna: zoogeographical areas of the world ocean (p. 100-118); Arctogean lands (p. 183-203); tundra belt (p. 220-31); taiga belt (p. 232-52); northern seas (p. 346-49).

This is a revised edition of a work by the author and others with the same title pub. 1946, 455 p.

**Copy seen:** DLC (both editions).

**20744. BOBRINSKOĬ NIKOLAI ALEKSEEVICH, 1890-** . Zhivotnyi mir i priroda SSSR. (Sredi prirody, no. 9). Moskva, Izd-vo Moskovskogo obshchestva ispytatelei prirody, 1949. 215 p., fold. map., illus., 32 illus., on 16 plates.

**Title tr.:** The animal world and nature in the U. S. S. R. (With nature, no. 9)

A popular book on the zoogeography of the U. S. S. R. Starting with life of the seashores, the author proceeds through the tundra, taiga, and subsequent regions till he reaches the southernmost outskirts of the country: the Crimea, Caucasus and Central Asia. Glossary of Latin names of animals is appended.

**Copy seen:** DLC; MH.

**20745. BOBROV, EVGENIĬ GRIGOR'EVICH, 1902-** . Novye dlia kul'tury vidy klevera. Moskva-Leningrad, Izd-vo Akad. nauk SSSR, 1950. 67 p., illus. (Akademiia nauk SSSR. Nauchno-populiarnaiia seriia) **Title tr.:** Species of clovers new to cultivation.

**Contains** the results of a special study of 13 species of clover as forage and hay herbs for their introduction into culture, with data on systematics, forage properties, notes on habitat and cultivation and geographic distribution. Includes *Trifolium repens*, occurring in Kola Peninsula, Arkhangel'sk province, Yenisey River region (68° N.) and Kamchatka, and

*T. medium* native to Arkhangel'sk province.

**Copy seen:** MH-G.

**20746. BOBROV, EVGENIĬ GRIGOR'EVICH, 1902-** . Vidy klevorov SSSR. (Akademiia nauk SSSR. Botanicheskii institut im. Komarova. Trudy, 1947. Seriia 1. Flora i sistematika vysshikh rastenii. Vyp. 6, p. 164-336, illus.)

**Title tr.:** The clovers of the U.S.S.R.

**Contains** a critical revision of all known species of clover (*Trifolium*) of the flora of U.S.S.R., with a review of works on systematics of the genus, cytological investigation, phylogenetical scheme of clover classification, a key to the species, p. 196-204; a systematic survey of 65 species with synonymy, descriptions, data on agricultural importance and notes on geographic distribution; a systematic list of Russian clovers, p. 332. Includes five species (*T. lupinaster*, *T. repens*, *T. hybridum*, *T. fragiferum* and *T. pratense*) native to northern regions of the U.S.S.R. Bibliography (129 items). Summary in English.

**Copy seen:** MH-A.

**20747. BOCH, S. G.** Materialy k chetvertichnoi geologii Liapinskogo, Nizhnesosvinskogo i Kondinskogo kraia zapadnosibirskoi nizmennosti. (Akademiia nauk SSSR. Komissii po izucheniiu chetvertichnogo perioda. Trudy, 1937. t. 5, vyp. 1, p. 89-148, illus., 2 fold. sketch maps) **Title tr.:** Contribution to the Quaternary geology of the Lyapinskiy, Nizhnesosvinskiy and Kondinskiy regions of the western Siberian plain.

**Contains** description of the geography and Quaternary geology of an area lying between 59°39'-65°30' N. 61°-68° E., studied during 1929-33, largely along canoe routes of the Konda and Northern Sos'va River basins, left tributaries of the Ob'. Report on the river systems, structural, stratigraphic and glacial geology, geomorphology and geologic history of the area traversed. Bibliography (35 items). Summary in French.

**Copy seen:** DGS.

**20748. BOCH, S. G.** O nekotorykh tipakh deluvial'nykh otlozhenii Pripolarnogo Urala. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1939. Novaia seriia, t. 47, otdel geol. t. 17, vyp. 6, p. 48-61, illus.) **Title tr.:** On some types of diluvial deposits of the subarctic Urals.

"Ridge characteristics, glacier formation, permafrost distribution, and the relationship between diluvial deposits

and solifluction [in the area, 64°-65°30' N.] are discussed. Soil lamination and embedded humus levels were found under solifluction terraces. A relationship was established between soil-flow velocity and the presence of permafrost and snow cover. Meltwater from snow fields is considered the major factor activating solifluction."—SIPRE. Summary in English. **Copy seen:** DLC; MH-Z.

**20749. BOCH, S. G.** Stoianki v basel'nakh Severnol Sos'vy i Kondy. (Akademiia nauk SSSR. Komissiiia po izucheniiu chetvertichnogo perioda. Trudy, 1937. t. 5, vyp. 1, p. 149-65, illus., sketch map) **Title tr.:** Sites in the Northern Sos'va and Konda basins.

Contains report on archeological findings of the author during his geologic trips, 1929-33, in the area east of the Polar Urals, 59°39'-63° N. 61°-66° E. along the tributaries of the Ob' River. Description of caves, fireplaces, and settlement sites with artifacts from a culture presumed to be Gorodichi, probably dating from the beginning of the bronze age. Summary in German.

**Copy seen:** DGS.

**20750. BOCK, RICHARD ERNST, 1899-**, and **W. SCHUMANN.** Katalog der Jahresmittel der magnetischen Elemente der Observatorien und Stationen, an denen eine Zeitlang erdmagnetische Beobachtungen stattfanden. Bd. I-IV. Berlin, Akad.-Verlag, 1948. 4? v. (Potsdam. Geophysikalisches Institut. Anhandlungen Nr. 8-11?) **Title tr.:** Catalog of annual means of magnetic elements from observatories and stations which have been making geomagnetic observations for some time, vol. I-IV.

Evidently projected in four volumes, of which only v. 1-2 have been located. Vol. 1 (no. 8) presents data from 61 localities north of 55° N., of which 45 lie within the boundaries of the arctic and subarctic areas covered by this Bibliography. The list of stations gives geographic coordinates and years for which observational data are available.

**File seen:** DLC (v. 1-2, i. e. no. 8-9 only)

**20751. BOCK, SIXTEN, 1884-1946.** *Epithetosoma* not a geophyrean but an indeterminate heteronemertine. (Bergen, Norway. Museum. Aarbok; Naturvidenskabelig raekke, 1919-20, pub. 1921, nr. 9, p. 1-5)

Contains a critical study of a specimen from the collection of the Norwegian

North Atlantic Expedition, described as a geophyrean, *Epithetosoma norvegicum*, by D. C. Danielssen and J. Koren in their paper *Fra den norske Nordhavsrejsning. Geophyreer*, 1880, (Arctic Bibliography No. 3655). The specimen is in a bad condition and the author identified it as a nemertine, probably a species of *Micrura*.

**Copy seen:** MH-Z.

**20752. BOCK, SIXTEN, 1884-1946.** Studien über Polycladen. (Zoologiska bidrag från Uppsala, 1913. bd. 2, p. 31-343, illus., plates 3-10) **Title tr.:** Studies on Polyclada.

Contains a monographic treatment of marine flatworms of the order Polyclada from various seas, with an enumeration of over 120 species, including 23 new species and 10 new genera. Diagnoses, localities, geographic distribution are given along with data on morphology, anatomy and ecology; also notes on geographic distribution of Polyclada along the Scandinavian coast and in the Arctic (p. 311-18) and an index of the species and a bibliography (261 items). Includes some species native to northern waters of Europe and Asia.

**Copy seen:** MH-Z.

**20753. BOCK, SIXTEN, 1884-1946.** Zur Kenntnis von *Nectonema* und dessen systematischer Stellung. (Zoologiska bidrag från Uppsala, 1913. bd. 2, p. 1-30, illus., plates 1-2) **Title tr.:** A contribution to the knowledge of *Nectonema* and its systematic position.

Contains a discussion of the systematic position of the marine nematode genus *Nectonema*, with a list of three species, including a diagnosis of *N. svenskundi* n. sp. found on Aug. 27, 1908 in Dickson Bay, West Spitsbergen, during the Swedish Spitsbergen Expedition. The anatomy and histology of this species is studied, also its relationship to other groups of Nematoda. **Copy seen:** MH-Z.

**20754. BODNARSKIĬ, MITROFAN STEPANOVICH, 1870-**. Ocherki po istorii russkogo zemlevedeniia, I. Moskva, Izd-vo Akademii nauk SSSR, 1947. 290 p. maps (8 fold.). (Akademiia nauk SSSR. Nauchno-popul'arnaiia seriia) **Title tr.:** Essay on the history of Russian geography, I.

Contains a history of Russian geographical exploration and travel, with chapters on (1) the ancient period: 12-16th century; (2) the epoch of great

Russian geographical discoveries: second half of 16th to end of 17th century; (3) period of Peter the Great: end of 17th-first quarter of 18th century; (4) period after Peter, 1725-1800; (5) first half of 19th century. In view of the geographic position of Russia the travels and discoveries were to a great extent within the arctic and sub-arctic areas and their history offers a substantial part of arctic information. *Appendix* gives a chronological guide of events (p. 254-64); list of personal names (p. 265-73) and geographic names (p. 274-87). Bibliography (305 items).

*Copy seen:* DLC.

**20755. BODURTHA, FRANK T., Jr.** An investigation of anticyclogenesis in Alaska. (Journal of meteorology, Apr. 1952. v. 9, no. 2, p. 118-25, 14 fig., table, 2 equations)

"Frequencies of anticyclogenesis plotted by 5° squares N. of 40° show a maximum in Alaska (65-70° N. 130-135° E.). Air mass contributions at different levels are given for 19 cases of Alaskan anticyclogenesis and detailed synoptic analysis of five. A model shows warm air advection and adiabatic cooling to W. and inflow as cold air at 200 mb. over a previously existing cold air mass in Alaska. Anticyclogenesis is more frequent at high than low sunspot numbers."—*Meteorological abstracts and bibliography*, Sept. 1952. v. 3, no. 9, p. 915. Bibliography (25 items).

*Copy seen:* DWB; MH-BH.

**20756. BODYLEVSKIĬ, VITALĬĬ IVANOVICH, 1898-** . Fauna nizhnego doggera (?) iz bukhty Mona (Mohn Bay) na vostochnom poberezh'e Shpitsbergena. (Akademiia nauk SSSR. Doklady, seriia A, 1929, no. 10, p. 256-58, illus.) *Title tr.*: Fauna of the lower Dogger (?) from the Mohn Bay, on the east coast of Spitsbergen.

Fossils (middle Jurassic?) suggest an earlier connection of the studied area with Franz Josef Land. Summary in German. *Copy seen:* DLC.

**BODYLEVSKIĬ, VITALĬĬ IVANOVICH, 1898-** , see also Samoilovich, R. L., & others. Geografiia Arktiki. 1937. No. 25812.

**20757. BOË, FINN, and others.** Adrenocorticotropic hormone in the whale. (Nature, Feb. 1951. no. 4242, v. 167, p. 280). *Other authors:* Hugo Holterman,

Sigbjørn Salvesen, Karl Fr. Stoñ, and Arne Sverdrup.

*Contains* a preliminary report on isolation of adrenocorticotropic hormone from pituitaries of finback whales and blue whales. Whale glands of both species were pooled and worked up according to procedures applied in pig and sheep. "Crude prolactin" was isolated first and from it, adrenocorticotropic hormone was separated. Detailed data on amounts, potency, etc., are given. Bibliography (7 items).

*Copy seen:* DA.

**20758. BÖCHER, TYGE WITTRÖCK, 1909-** . Botanical investigations in southwest Greenland, 1946. (Arctic, May 1951. v. 4, p. 46-49, illus., sketch map).

*Contains* brief account of a four-man Danish expedition into the regions of Arsuk Fjord, Godthaab, and Sønder Strømfjord, collecting various groups of land and fresh-water plants and studying ecological conditions. Bibliography (7 items).

*Copy seen:* CaMAI; DLC.

**20759. BÖCHER, TYGE WITTRÖCK, 1909-** , and KAI LARSEN. Chromosome numbers of some arctic or boreal flowering plants. Den botaniske ekspedition til Vestgrønland 1946. København, C. A. Reitzel, 1950. 32 p., 57 illus. (Meddelelser om Grønland, Bd. 147, nr. 6)

"139 chromosome countings were made in 80 different arctic or boreal species. 25 species have not been studied before cytologically . . . In 20 cases different chromosome numbers were found in plants belonging to the same species or to the same complex of closely related species. Only in 3 cases *Cerastium ceratioides*, the *Braga linearis* complex and *Bartschia alpina*, aneuploidy was made possible. In all other cases the numbers are multiples of the same basic member."—Author's summary. Bibliography (27 items).

*Copy seen:* CaMAI; DSI-M.

**20760.** Number not used.

**20761. BÖCHER, TYGE WITTRÖCK, 1909-** . Contributions to the flora and plant geography of West Greenland II, the *Carex capita*-, the *Luzula multiflora*-, and the *Tortularia humilis*-complexes. Den botaniske ekspedition til Vest Grønland 1946. København, C. A. Reitzel, 1950. 39 p., 15 illus., 5 plates with descriptive letterpress. (Meddelelser om Grønland, bd. 147, no. 7)

In determining plants collected on the

Botanical Expedition to West Greenland in 1946, the author met various systematic and plant geographical problems. He treats three complexes of species involving such problems. Within all three there is a species with a narrow areal limited to the most continental part of West Greenland; one such species *Luzula groenlandica* is new to science; all three such species occur highly isolated; other isolated occurrences in the Søndre Strømfjord area are mentioned. The importance of these isolations to the theory of a large continental Glacial-Age refugium in this area is discussed—introd.

**Copy seen:** CaMAI.

**20762. BÖCHER, TYGE WITTRÖCK, 1909-** . Contributions to the flora and plant geography of West Greenland III, vascular plants collected or observed during the Botanical Expedition to West Greenland 1946. København, C. A. Reitzel, 1952. 85 p. illus. (incl. sketch maps). (Meddelelser om Grønland. bd. 147, no. 9).

Contains lists of several hundred species of plants from 20 localities mainly in the region of Søndre Strømfjord near 67° N. on the west coast of Greenland. A detailed account is given of the occurrence, systematics and biology of the flora of the fiord region, and this is compared with other local floras of Greenland. Bibliography (67 items).

**Copy seen:** DGS.

**20763. BÖCHER, TYGE WITTRÖCK, 1909-** . Cytological and embryological studies in the amphipomictic *Arabis holboellii* complex. (Danske videnskabelnes selskab. Biologiske skrifter, 1951. Bd. 6, nr. 7, p. 1-59, illus., diags., maps, tables).

Contains a cytological examination of the varieties *typica* and *retrofracta* from Greenland and from Alaska, with a special study of meiotix behavior, pollen development, embryology and seed-sterility. This highly polymorphic rock-cress was found to have a basic haploid chromosome number of 7, with diploid races occurring in America and Greenland, triploid races in Greenland, hexaploid races in America. Western North America is the present center of variation of this species and probably the center of its origin. Its present discontinuous distribution suggests that it is a survivor of North American glaciation. Bibliography (43 items).

**Copy seen:** DA.

**20764. BÖCHER, TYGE WITTRÖCK, 1909-** . Cytological studies in the genus *Ranunculus*. København, H. Hagerup, 1938. 33 p., illus. (Dansk botanisk arkiv. bd. 9, nr. 4).

Contains description of materials and methods, cytological observations, castration and hybridization experiments, germination experiments with pollen grains, and a bibliography (47 items); material includes *Ranunculus auricomus* and its variety *glabrata* from East Greenland and *R. affinis* with var. *willanderi* native to East Greenland, Svalbard and Baffin Island.

**Copy seen:** MH-A.

**20765. BÖCHER, TYGE WITTRÖCK, 1909-** . Plantevaeksten. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 1, p. 157-80, illus., incl. 2 map diags.) **Title tr.:** Vegetation.

Contains summary of the general phytogeography of Greenland as a whole, noting the types of vegetation and their limits; mention of the endemic and introduced plants; and characterization of the many plant associations. Bibliography (13 items).

**Copy seen:** DSI-M.

**20766. BÖCHER, TYGE WITTRÖCK, 1909-** . Some small collections of vascular plants from the southern part of Greenland. (Botanisk tidsskrift, 1952. bd. 49, hefte 2, p. 196-98).

Contains a list of 14 small collections made in recent years by non-botanists in southern Greenland, with the localities, collectors' names and most interesting plants noted, altogether recording about 80 species of flowering plants and vascular cryptogams.

**Copy seen:** MH-A.

**20767. BÖCHER, TYGE WITTRÖCK, 1909-** . Structure and biology of four species of the Stigonemataceae from a shallow pool at Ivigtut. København, C. A. Reitzel, 1950. 20, [1] p., illus. (Meddelelser om Grønland. bd. 147, nr. 5).

Contains (as a result of the Botanical Expedition to West Greenland, 1946) detailed description and discussion of three new species and one new variety of fresh-water algae; with a bibliography (10 items).

**Copy seen:** DGS.

**20768. BÖCHER, TYGE WITTRÖCK, 1909-** . Studies on the distribution of the units within the collective species of *Stellaria longipes*. (Botanisk tidsskrift, 1951. bd. 48, hefte 4, p. 401-420, text maps).

Contains a key to six species formerly

collectively termed *Stellaria longipes*, a survey of chromosomes numbers and data on distribution and ecology. "Among the six species within the collective species *S. longipes*, two (viz. *S. longipes* s. str. and *S. ciliatosepela*) if anything, are circumpolar, *S. crassipes*, if anything, west-arctic amphi-Atlantic with a relic-like distribution, *S. laeta* and *S. monantha* are American and *S. laxmanni* has a range disrupted into three or four part areas," p. 418. **Copy seen:** DLC; MH-A.

**BÖCHER, TYGE WITTRÖCK, 1909-** . see also Grönblad, R. L. Desmids W. Greenland. 1952. No. 22244.

**BÖCHER, TYGE WITTRÖCK, 1909-** . see also Noe-Nygaard, A., & others. Notes on Danish scientific work. 1951. No. 24684.

**20769. BOECK, AXEL, 1833-1873.** Crustacea amphipoda boreali et arctica. (Norske videnskaps-akademi, Oslo. Forhandling, 1870, pub. 1871, p. 83-279) **Title tr.:** Boreal and arctic Crustacea Amphipoda.

Contains a critical revision of marine and some fresh-water (in Scandinavia) crustaceans of arctic and boreal regions, with a systematic list of about 250 species, including diagnoses of many new species, brief descriptions of other species, synonymy, critical notes and data on distribution. At least 70 species are native to Greenland and Barents Sea, Svalbard waters and northern provinces of Scandinavia. **Copy seen:** DLC; MH-Z.

**20770. BOECK, CHR.** *Tubularia regalis*, en ny art fra Belsund paa Spitsbergen. (Norske videnskaps-akademi, Oslo. Forhandling, 1859, pub. 1860, p. 114-17, plate 3) **Title tr.:** *Tubularia regalis*, a new species from Bellsund, Spitsbergen.

Contains a description of *Tubularia regalis* n. sp., a hydroid found in Bellsund (77°40' N. 14° E.) West Spitsbergen.

**Copy seen:** DLC; MH-Z.

**20771. BÖCKER, CARL CHRISTIAN, 1786-1841.** Om skogars skötsel i Norden, udelleen julkaissut Suomen Metsätieteellinen Seura, johdannolla varustanut E. A. Martin Hagfors. Helsinki, 1929. 37, iv, 88 p., plate. (Silva fennica:13) **Title tr.:** Silviculture in the North, newly edited by the Forestry Society of Finland, with introduction by E. A. Martin Hagfors.

Introduction by Hagfors in Finnish and

English (p. 3-37) gives historical outline of forestry developments in Sweden and Finland, biographical sketch of the Finnish politician and economist Böcker, his pioneer and classic work (with title as above) published in Swedish in 1829, of which the first part on forest economics is reprinted here (iv, 88 p.). Hagfors gives a chapter-by-chapter analysis of Böcker's study, relating it to knowledge and practices of that and later times. Böcker dealt with the importance of forests in national economy; foundation of forest economics; state forest policy; main lines for the future (a detailed program in education, conservation and control in forestry). **Copy seen:** DLC.

**20772. BØGVAD, RICHARD, 1897-** . Grønland som mineralproducerende land. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 2, p. 95-120, illus.) **Title tr.:** Greenland's mineral resources.

Contains review of exploration for minerals of economic or more than passing interest, beginning with the time of Hans Egede; brief history of copper, cryolite, coal and marble mining; exploration and prospecting for nepheline syenite and iron ores, mainly magnetite; remarks on uranium in Greenland. Bibliography (7 items). The author's *Nepheline syenite and iron ore deposits in Greenland*, 1950, treats certain parts of this paper in English and in somewhat more detail.

**Copy seen:** DSI-M.

**20773. BØGVAD, RICHARD, 1897-** . Mineralogical observations on the cryolite deposit at Ivigtut, Greenland. (Dansk geologisk forening. Meddelelser, 1951. bd. 12, p. 109-110)

Contains a note on the discovery of meta-jarlite, baryto-celestite with jarlite, and spherulitic siderite in the cryolite mine at Ivigtut; and the preliminary description of a new phospho-fluoride mineral, also found there.

**Copy seen:** DGS.

**20774. BØGVAD, RICHARD, 1897-** . Nepheline syenite and iron ore deposits in Greenland. (Arctic, Aug. 1950. v. 3, p. 86-94, illus., 3 maps)

The chief geologist of the Cryolite Company (Copenhagen) describes known deposits, sketches the history of their exploration and remarks on economic possibilities, mineralogy, and situation of eudialyte deposits in the Julianehaab, Kangerdluarsuk Fjord region of West Greenland, and of the iron ore deposits

in the Grønnedal region (Ivigut Peninsula) southwest Greenland. Bibliography (20 items). Notice of cessation of prospecting iron ore at Grønnedal appeared in *Arctic*, May 1951, v. 4, p. 70.

**Copy seen:** DAI; DLC.

**29775. BØGVAD, RICHARD, 1897- .** Olivinstensforekomsten ved Siorarsuit i Vestgrønland; en undersøgelse med henblik på teknisk udnyttelse. (Dansk geologisk forening. Meddelelser, 1951. bd. 12, p. 58-61, plate) **Title tr.:** An occurrence of dunite at Siorarsuit in West Greenland; an investigation with regard to its technical utilization.

**Contains** a report on the analysis of the dunite from a locality south of Kangamiut in Sukkertoppen District, which, because of its high Fe content is "unsuitable for refractory purposes." Summary in English.

**Copy seen:** DGS.

**29776. BØGVAD, RICHARD, 1897- .** Påvisning af fluor i nogle grønlandske bjergarter. (Dansk geologisk forening. Meddelelser, 1950. bd. 11, p. 612-15). **Title tr.:** Determination of fluorine in some Greenland rocks.

**Contains** a note on methods and brief remarks on the F content of granite associated with cryolite at Ivigut and in metamorphic rocks of Angmagssalik and Cape Farewell. The possibility of using such traces for finding hidden cryolite deposits is indicated.

**Copy seen:** DGS; DLC.

**BØGVAD S. RICHARD E.,** see Bøgvad, Richard, 1897- .

**29777. BÖHM, FRANZ, 1881- , and W. DRECHSEL.** Das Betonieren bei Frost. 5., neubearb. Aufl. Berlin, W. Ernst, 1951. 79 p. illus. **Title tr.:** Building in concrete under conditions of frost.

**Contains** sections on the advantages and disadvantages of winter construction; theoretical fundamentals of concrete work under frost conditions; prevention of heat loss from concrete raw materials and "fresh" concrete; protective measures against frost; special requirements in organizing winter construction, particularly with regard to "fresh" concrete, increased costs, etc. Bibliography (46 items). This work is a revision of a monograph published under the same title, by the senior author in 1928; of which a 4th edition with some revision appeared in 1944.

**Copy seen:** DLC.

**29778. BÖHTLINGK, OTTO VON, 1815-1904.** O ääzykñ ääkutov; opyt izsledovaniä otäel'nago ääzyka v sväzi s sovremennym sostoiänim vseobshchago ääzykoznaniiä. (Akademiä nauk SSSR. Uchenyiä zapiski, 1853. t. 1, vyp. 4, p. 377-446) **Title tr.:** On the Yakut language; experimental investigation of a different language in connection with the present situation in general linguistics.

**Contains** general consideration of the Yakut language, its morphological and logical characteristics, etc., with many references to contemporary linguists (Pott, Schott, Steintahl, Castrén, and others). Includes also a bibliography on the Yakuts and lists of their words in print and mss. (p. 420-44), followed by three specimens of texts. Originally this paper served as introduction to the author's work *Über die Sprache der Jakuten*, published in A. T. v. Middendorff's work *Reise in den äussersten Norden und Osten Sibiriens*, 1851 (*Arctic Bibliography* No. 1849, 11374).

**Copy seen:** DLC.

**BÖHTLINGK, OTTO VON, 1815-1904,** see also Mel'nikov, M. P. Petrograf. zamëtki. 1895. No. 24288.

**BÖHTLINGK, OTTO VON, 1815-1904,** see also Pekarskil, E. K. Slovar' ääkutskago ääzyka. 1907-1930. No. 25021.

**BÖHTLINGK, OTTO VON, 1815-1904,** see also Pekarskil, E. K. Zapiska o Slovariä ääkutskago ääzyka. 1905. No. 25022.

**29779. BOGACHEV, Ä. T.** Nekotorye novye dannye po stratigrafii i faune ääekhshhtelnovykh obrazovaniï Severnoi Dviny i Pinegi. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1936. Novaiä seriä t. 44, otdel geol. t. 14, vyp. 5, p. 406-426). **Title tr.:** Some new data on the stratigraphy and fauna of "zechstein" formations of the Northern Dvina and Pinega River basins.

**Study of zechstein (upper Permian) formations in the basin of Northern Dvina and Pinega Rivers in Arkhangel'sk province, divided by the author into five series, with systematic and historical notes on fossil Spirifer fauna, including some new species; comparison with zechstein formations of other regions (Kama, Vyatka, Vaga Rivers), marine elements of this fauna and a bibliography (17 items).**

**Copy seen:** MH-Z.

**20780. BOGDANOV, F. M.** K voprosu degradatsii vechnoi merzloty. (Sovetskaya geologiya, 1934. 1: no. 3, p. 232-234) *Title tr.:* On the degradation of the permafrost.

"Geological investigations were conducted in the area of Podkamennaya and Nizhnaya Tunguska to determine the extent of permafrost degradation which had been observed since 1892. The appearance of thaw lakes and sinks in increasing numbers suggested the subsidence of the ground following the thawing of permafrost. Drillings extending 80 m. below the ground surface at the mouth of P. Tunguska indicated the absence of permafrost. Inspections of mineshafts, water wells, and other types of ground works confirmed the findings. The study of coal deposits in this region showed the existence of permafrost during the latter part of the 19th century."—SIPRE.

*Copy seen:* DLC.

**BOGDANOV-KAT'KOV, NIKOLAI NIKOLAEVICH,** see Martynov, A. V. Ruchelniki. 1924. No. 24215.

**BOGDANOVICH, KARL IVANOVICH, 1864-1947,** see Palibin, I. V. Bot. sbor Bogdanovicha. 1908. No. 24939.

**20781. BOGDANOVSKAYA-GIENEF, IVONNA DONATOVA, 1886- .** O proiskhozhdenii flory boreal'nykh bolot Evrazii. (Akademiya nauk SSSR. Botanicheskiy institut. Materialy po istorii flory i rastitel'nosti SSSR, 1946. vyp. 2, p. 425-68) *Title tr.:* On the origin of the Eurasian boreal swamp and bog flora.

*Contains* a study of Eurasian boreal swamps as the ancient type of biogeocoenoses, with data on interglacial swamp flora, on ecogenetic groups of swamp plants (six groups discussed) and on ecologo-morphological differentiation of such groups and individual genera and species. The elements of present-day swamp flora and their origin are discussed: Bibliography (110 items). Summary in English, p. 465-68.

*Copy seen:* MH-A.

**20782. BOGOLUBSKIY, S. N.** Materialy po sravnitel'noi kraniologii severnykh sobak (laek). (Moskovskoe obshchestvo ispytateley prirody. Bülleten', 1925. Otdel biol. Novaya seriya t. 34, p. 309-329, 3 fold. tables) *Title tr.:* Materials for the comparative

craniology of northern dogs ("laika", i. e., husky)

*Contains* a craniological study of various races of northern dogs, including the Zyryan laika (Northern Dvina, Mezen', Pechora region), the Ostyak laika (Ob-Yenisey region, region above the Arctic Circle), Tungus laika (Okhotsk Sea region), Lapland laika (almost extinct), Samoyed laika (Yamal, Novaya Zemlya, Arkhangel'sk region), Yakut laika and subraces (Orochon, Yukaghir, etc.); with three tables of skull dimensions of all races and subraces. Summary in German, p. 327-29.

*Copy seen:* DLC; MH-Z.

**20783. BOGORAZ, VLADIMIR GERMANOVICH, 1860-1936.** Chukotskie risunki. (In: Obshchestvo lyubitel' estestvoznaniya, antropologii i etnografii. Sbornik v chest' semidesyatiyatiya prof. Dmitriya Nikolaevicha Anuchina. Moskva, 1913. p. 397-420, 24 illus.) *Title tr.:* Chukchi drawings.

*Contains* notes and illus. of 24 drawings from the collection made by the author in 1899-1900 while on the Jesup North Pacific Expedition, but not pub. in *The Chukchee* (Arctic Bibliography, No. 1876). Made with pencil on paper, the drawings are of five categories: (1) images of animals, plants, men, spirits; (2) hunting scenes; (3) illus. of tales, legends, etc.; (4) maps; and (5) those connected with religious ideas. Summary in English.

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**20784. BOGORAZ, VLADIMIR GERMANOVICH, 1860-1936.** Drevnie pereseleniya narodov v severnoi Evrazii i v Amerike. (Akademiya nauk SSSR. Muzei antropologii i etnografii. Sbornik, 1927. t. 6, p. 37-62, 3 maps) *Title tr.:* The old migrations of peoples in the northern Eurasia and in America.

*Contains* discussion on migration of people from Asia to North America via Bering Strait: opinions of V. I. Jochelson, A. N. Samollovich, Kaj Birket-Smith, P. P. Sushkin, Castrén, Radloff, and others, are critically evaluated. Map 2 (p. 45) shows the regions of domesticated reindeer and dogs, map 3 (p. 51) indicates the recent living places of the Turcic tribes (Yakuts, and others) in Siberia.

*Copy seen:* DLC.

**20785. BOGORAZ, VLADIMIR GERMANOVICH, 1860-1936.** Igry malykh narodnostey Severa. (Akademiya nauk

SSSR. Muzeĭ antropologii i étnografii. Sbornik, 1949. t. 11, p. 237-54) **Title tr.:** Games of the small peoples of the North.

*Contains* description of sportive activities, games and play among the Chukchis, Koryaks and Asiatic Eskimos; dog-sledge racing, wrestling, jumping on a hide, ball-playing, circle games (the Tungusian *okhor'e* was adapted by the Yukaghirs and Yakuts), hunters' sport around the killed animal, etc.; music and songs of the Eskimos, Chukchis, Yukaghirs (texts in Russian), children's games, toys and dolls. This paper was written by Bogoraz in 1933 and is published here from the manuscript in the Academy of Sciences U.S.S.R. **Copy seen:** DLC.

**20786. BOGORAZ, VLADIMIR GERMANOVICH, 1860-1936.** L. Ė. Shternberg, kak étnograf. (Akademiĭa nauk SSSR. Muzeĭ antropologii i étnografii. Sbornik, 1928. t. 7, p. 4-30) **Title tr.:** L. Ė. Shternberg as ethnographer.

*Contains* account of his life (1862-1927) the years spent on Sakhalin Island among the Gilyaks and Ainu; his study of the Gilyak language and publication of several important works on their language, folklore, religious ideas, shamanism, and social organization. Summary in German. **Copy seen:** DLC.

**20787. BOGORAZ, VLADIMIR GERMANOVICH, 1860-1936.** Luoravetlansko-russkii (chukotsko-russkii) slovar'. Podgotovili k pechatĭ G. Mel'nikov, G. Korsakov i T. Bel'sbakh, pod red. S. N. Stebnitskogo. Moskva, Gos. uchebno-pedagog. izd-vo, 1937. xlvī, 164 p., port. (Nauchno-issledovatel'skaiĭ assotsiatsiĭa Instituta narodov Severa im. P. G. Smidovicha. Trudy po lingvistike, t. 6) **Title tr.:** Luoravetlan-Russian (Chukchi-Russian) dictionary. Prepared for publication by G. Mel'nikov, G. Korsakov and T. Bel'sbakh, under the editorship of S. N. Stebnitskii.

Prepared on the basis of data collected by Bogoraz in the Kolyma region 1895-97 when (a deportee) with the Sibirĭakov Yakut Expedition, and on Chukotsk Peninsula 1901-02 attached to the Jesup North Pacific Expedition. Introduction outlines the grammar and essential peculiarities of the language. Then follows Chukchi dictionary with Russian equivalents, definitions, etc. **Copy seen:** DLC.

**20788. BOGORAZ, VLADIMIR GERMANOVICH, 1860-1936.** Materialy po

ĭazyku aziatskikh ėskimosov. Podgotovili k pechatĭ G. A. Menovshchikov i E. S. Rubĭsova. S prilozheniem tablits skloneniĭa imen i sprĭazheniĭa glagolov v sovremennom ĭazyke aziatskikh ėskimosov, sostavlennykh G. A. Menovshchikovym. Pod redaktsiei I. S. Vdovina. Leningrad, Gosudarstvennoe uchebno-pedagogicheskoe izd-vo ministerstva prosveshcheniĭa RSFSR, Leningradskoe otdelenie, 1949. 255 p. **Title tr.:** Materials on the language of the Asiatic Eskimos. Prepared for publication by G. A. Menovshchikov and E. S. Rubĭsova. With a supplement of declension tables and conjugation of verbs in the modern language of the Asiatic Eskimos compiled by G. A. Menovshchikov. Edited by I. S. Vdovin.

*Contains*—in this publication of materials prepared by Bogoraz in 1901 on the basis of his work during the Sibirĭakov Yakut Expedition 1894-96 and the Jesup North Pacific Expedition—an introductory section (p. 3-24) on the life and linguistic work of Bogoraz, the Academy of Sciences' early interest in the language of the Eskimos and other primitive people, etc. The monograph includes: the parts of speech (p. 25-105); exercises printed in Latin characters with Russian translations (p. 106-178); Eskimo-Russian dictionary (p. 179-211); list of suffixes having the meaning of words (with examples). Bibliography (27 works by Bogoraz, 28 works on the Asiatic Eskimos). **Copy seen:** DLC.

**20789. BOGORAZ, VLADIMIR GERMANOVICH, 1860-1936.** Neue Daten über die Ethnographie der kleinen Völkernschaften des Nordens. (Anthropos, Ephemeris, 1929. Bd. 24, p. 517-21) **Title tr.:** New data on the ethnography of the small peoples of the North.

*Contains* several short notices on material culture of the Yeniseians, Ostyak-Samoyeds, Lamuts, etc.: animal-husbandry, means of transportation, etc.

**Copy seen:** DLC; InU.

**20790. BOGORAZ, VLADIMIR GERMANOVICH, 1860-1936.** Novye dannye po étnografii malykh narodnostei Severa. (Sovetskaiĭ Aziĭa, 1928. god 4, no. 3, p. 49-53) **Title tr.:** New data on ethnography of the small nationalities of the North.

*Contains* notes on the Yeniseians, Ostyak-Samoyeds, Lamuts, Chukchis, and Tungus, gathered from student-

natives of those peoples; deals mostly with the reindeer breeding and use of dogs as herders; includes details on the Tungus sledge (*narta*).

**Copy seen:** DLC.

**20791. BOGORAZ, VLADIMIR GERMANOVICH, 1860-1936.** Osnovnye tipy fol'klora severnoi Evrazii i severnoi Ameriki. (Sovetskii fol'klor, 1936. v. 4-5, p. 29-50) **Title tr.:** Basic types of folklore in northern Eurasia and North America.

*Contains an analysis of the ideology as deduced from myths and tales of the following ethnic groups: (1) the Koryaks and Kamchadals, (2) Yukaghirs and Chuvantzy, (3) Chukchis, (4) Asiatic Eskimos, and (5) American Eskimos. The myth about an animal which died and came to life again is typical for the entire area. In Koryak-Kamchadalian folklore, the myths are centered around the raven Kutkha, his wife and children; the creator of the world also is a raven and these myths on the whole are of a light and merry character. The Eskimo myths, on the contrary, are sombre and mirthless. The chief figure of Eskimo folklore, Sedna, woman of the sea and mistress of life, is hostile to men and sends them all kinds of calamities: she is of human origin, but lives at the bottom of the sea.*

**Copy seen:** DLC.

**20792. BOGORAZ, VLADIMIR GERMANOVICH, 1860-1936.** Severnoe olenevodstvo po dannym khoz'iaistvennoi perepisi 1926-1927 gg.; opyt kriticheskogo razbora. (Sovetskaiâ étnografiâ, 1932. no. 4, p. 26-62) **Title tr.:** Northern reindeer breeding, from a critical selection of the results of the economic survey of 1926-27.

*Contains a critical evaluation of the reindeer data in the latest census: its statements of the numbers, increase and decline of the animal among the nomadic Chukchis, Koryaks, Samoyeds, Tungus, Zyryans, and Lapps. A great price difference in different places is noted for reindeer and reindeer hide. Among the Zyryans 70 per cent of the population are reindeer breeders; among the Samoyeds 58 per cent; among the Koryaks and Tungus only 9 per cent and 8.5 per cent respectively. The reindeer population of the U.S.S.R. is given in this official census as 1,773,993; it is actually, the author states, about three million head.*

**Copy seen:** DLC.

**BOGORAZ, VLADIMIR GERMANOVICH, 1860-1936,** *see also* Castrén, M. A. Pamâti M. A. Kastrena. 1927. No. 21135.

**BOGORAZ, VLADIMIR GERMANOVICH, 1860-1936,** *see also* Chernetsov, V. N. Vogul'skie skazki. 1935. No. 21170.

**BOGORAZ, VLADIMIR GERMANOVICH, 1860-1936,** *see also* Popov, A. A. Materialy po istorii religii iakutov. 1949. No. 25215.

**20793. BOGOROV, VENIAMIN GRIGOR'EVICH, 1904-** . Biological seasons in the plankton of different seas. (Akademiâ nauk SSSR. Comptes rendus (Doklady), 1941. nouv. ser., v. 31, no. 4, p. 404-407, table, diagr.)

*Contains an analysis of factors determining biological seasons in the sea, latitude being their prime determinant. Number of plankton maxima, their duration, spacing and variation are discussed.*

**Copy seen:** DLC.

**20794. BOGOROV, VENIAMIN GRIGOR'EVICH, 1904-** . Biological seasons of the arctic sea. (Akademiâ nauk SSSR. Comptes rendus (Doklady), 1938, nouv. ser., v. 19, no. 8, p. 641-44, table, illus.)

*Contains report on plankton studies made on the cruise of the Litke in 1934 from Vladivostok to Murmansk. Discussion of some fundamental marine biological problems of the region.*

**Copy seen:** DLC.

**20795. BOGOROV, VENIAMIN GRIGOR'EVICH, 1904-** . Distribution of brackwater planktonic fauna in Siberian polar seas. (Akademiâ nauk SSSR. Comptes rendus (Doklady), 1944. nouv. ser., v. 44, no. 5, p. 191-92, map)

*The brackish fauna is widely distributed through the Siberian arctic seas and a very important component of the biomass. It is autochthonous in character and no representations of this fauna are recorded from North American arctic waters.*

**Copy seen:** DLC.

**20796. BOGOROV, VENIAMIN GRIGOR'EVICH, 1904-** . Diurnal vertical migration of zooplankton in arctic seas. (Akademiâ nauk SSSR. Comptes rendus (Doklady), 1943. nouv. ser., v. 40, no. 4, p. 164-66, table) Vertical diurnal migration depending, in addition to species-

specific characters, on external factors, is usually not extensive.

**Copy seen:** DLC.

**20797. BOGOROV, VENIAMIN GRI-GOR'EVICH, 1904-** . K biologii Euphausiidae i Chaetognatha Barentsova moria. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1940. Otdel biol. Novaiia seriia t. 49, vyp. 2, p. 3-18, diags.) **Title tr.:** On the biology of Euphausiidae and Chaetognatha in the Barents Sea.

**Contains** a study of the biology of small marine crustaceans of the family Euphausiidae and marine worms (Chaetognatha) collected during expeditions along the Kola meridian (33°30' E.) up to 70° N. in 1930, with data on the life duration, reproduction, growth rate, vertical distribution and relation to temperature and salinity of water. Summary in English.

**Copy seen:** DLC; MH-Z.

**20798. BOGOROV, VENIAMIN GRI-GOR'EVICH, 1904-** . Podvodnyi mir (zhizn' v more). Moskva-Leningrad. Gosudarstvennoe izd-vo tekhnicheskoi literatury. 1945. 47 p., illus. **Title tr.:** The underwater world (life in the sea).

**Contains** a popular outline dealing with seaweeds, plankton, invertebrates, fishes, marine amphibians, birds, seals and whales. Arctic conditions and areas are included.

**Copy seen:** DLC.

**20799. BOGOROV, VENIAMIN GRI-GOR'EVICH, 1904-** . Zhivotnyi mir morei i okeanov i ego khoziaistvennoe znachenie. Moskva, Gosudarstvennoe izd-vo geograficheskoi literatury, 1952. 96 p. illus., maps. **Title tr.:** The living world of the seas and oceans and its economic significance.

**Contains** a semi-popular presentation of the economic value of sea animals, Russian marine exploration, fisheries and whaling; with succeeding chapters on the ubiquity and forms of marine life; main commercial sea fishes; sea mammals and birds; other denizens of the sea; geographical areas; Soviet resources of the sea; changing the sea; conclusion. Arctic fishes, birds and mammals are dealt with in the relevant chapters, as are northern seas, Barents Sea (p. 69-71), White Sea (p. 71-73), the "Siberian arctic seas" (p. 73-74) and the Far Eastern seas (p. 74-78). Distribution of the main commercial fishes of the U.S.S.R. is shown in ap-

pendix. Selected bibliography (20 items).

**Copy seen:** DLC.

**20800. BOGOROV, VENIAMIN GRI-GOR'EVICH, 1904-** . Zhizn' moria. Leningrad, Izd-vo TSK. VLKSM. Molodaiia gvardiia, 1950. 262, [5] p., illus., col. plates. **Title tr.:** The life of the sea.

**Contains**—in this popular scientific monograph on the sea and its life forms—the history of Russian marine (largely arctic) exploration; account of the sea as cradle of life; sea water, its physical and chemical properties; sea ice; the movements of the sea water; the sea bottom. This is followed (p. 79-153) by accounts of the life of the sea, viz. the seaweeds; plankton; marine animals (in taxonomic order) including fishes; birds (with emphasis on arctic forms); seals and whales including, as in the previous chapters, their economic significance. A "trip around the world," (p. 154-214) deals with the depth of the ocean; its resources; ecological zones; man and the sea; marine industries, etc. The final section deals with Russian seas including the White Sea (p. 220-23), Barents Sea (p. 223-28), the Siberian arctic sea (p. 229-34) and the Far Eastern Seas (p. 234-43) sketching for each its exploration, oceanography, living resources and their utilization. Bibliography (20 items).

**Copy seen:** DLC.

**20801. BOGOROV, VENIAMIN GRI-GOR'EVICH, 1904-** . Zhizn' v more; rasshirennaia stenogramma lektsii, prochitannoi v Moskve. Moskva [Pravda] 1949. 47 p., illus. **Title tr.:** Life in the sea.

**Contains** text of a lecture (for the Society for dissemination of political and scientific information) on the sea as cradle of life; life conditions in the sea; seaweeds, bacteria and protozoa; invertebrates; fishes; amphibians; birds; seals and whales. Arctic forms and conditions are included. A similar account by same author appeared in 1945 under the title: *The underwater world, (life in the sea)*. **Copy seen:** DLC.

**20802. BOGOSLOVSKIĬ, ALEKSANDR SERGEEVICH, 1900-** . Novyi vid morskoi kolovratki iz roda *Lindia*. (Akademiia nauk SSSR. Doklady. Novaiia seriia, 1950. t. 72, no. 1, p. 209-212, illus.) **Title tr.:** A new marine rotifer of the genus *Lindia*.

**Contains** a morphological description and taxonomic notes on *Lindia brotzkyi*,

a new species of marine Rotifera collected by V. A. Brofskaia, in 1948, on the littoral of Ryashkov Island toward the head of Kandalakshskiy Gulf in the White Sea. **Copied seen:** DLC; MH-Z.

**20803. BOGOSLOVSKIĬ, P. A.** Ledovyi rezhim truboprovodov gidroelektricheskikh stanitsii. Moskva, Gosudarstvennoe energeticheskoe izd-vo, 1950. 154 p., illus., tables (1 fold.). **Title tr.:** The ice régime of pipe conduits of hydroelectrical stations.

**Contains** (in this technical monograph) chapters on: equations of heat-balance; limited icing of pipes; cylindrical icing of conduits; established freezing of the pipes; general conditions of freezing of pipe conduits; ice within the water of the pressure conduits of hydro-stations Bibliography (28 items).

**Copied seen:** DLC.

**20804. BOÏNO-RODZEVICH, M. A.** Decapoda, Isopoda, Cirripedia i Copepoda-parasitica, sobrannye Karskoĭ ékspeditsiei 1921 goda. (Leningrad. Leningradskii nauchnyi institut imeni P. F. Lesgafta. Izvestiia, 1923. t. 7, p. 129-40, illus.). **Title tr.:** Decapoda, Isopoda, Cirripedia and Copepoda-parasitica, collected by the Kara Expedition of 1921.

A description is given of the different kinds of crustaceans belonging to the above-named groups, in a small collection made by Strelnikov from the *Taïmyr* during Aug. 20-Oct. 5, 1921. Summary in English. **Copied seen:** DLC.

**20805. BOÏTŠOVA, A. F.** Kategoriia liŭsa v évenkiiskom ŭazyke. Leningrad-Moskva, Izd-vo Glavsevmorputi, 1940. 191 p., tables. (Nauchno-issledovatel'skaia assotsiatsiia instituta narodov severa im. P. G. Smidovicha) **Title tr.:** The category of person in Évenki. (Tungus).

**Contains** the following main sections: (1) personal pronouns; (2) reflexive and determining ('self') pronouns; (3) possessive pronouns in Tungus-Manchu languages; (4) personal-possessive and reflexive-possessive suffixes in Tungus-Manchu languages; (5) personal and impersonal suffixes of verbs. The merit of this book is its previously unpublished data on Tungus dialects, and 55 well-arranged comparative tables.

**Copied seen:** DLC.

**20806. BOJDYS, R.** Notes on de-icing trials. (Meteorological magazine, Lon-

don, May 1951, v. 80 (947), p. 140-41, 5 illus.)

"Photos illustrate ice accretion over North Sea, Trondheim and Arctic Circle, 4700-8000 ft., Feb. 27-28, 1950."—*Meteorological abstracts and bibliography*, Jan. 1952. v. 3, no. 1, p. 24.

**Copied seen:** DWB.

**20807. BOLDOVSKIĬ, G. V.** Warm-water Euphausiidae (Crustacea) of the Murman coast. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1937. nouv. ser., v. 17, no. 1-2, p. 85-87, maps).

**Copied seen:** DLC.

**BOLDOVSKIĬ, G. V., see Boldovskiĭ, G. V.**

**20808. BOLDT, R.** Ortbeskrifningen i Finland på 16- och 1700-talen. Helsingfors, 1900. 64 p. plate. (Geografiska föreningen i Finland. Meddelande, v. 5, no. 1) **Title tr.:** Descriptions of places in Finland during the 17th and 18th centuries.

**Contains** discussion (p. 1-25) of sources of information on districts, towns and counties in Finland in the 17th and (mainly) 18th century. Published material and manuscripts in libraries and archives are included. The language of these sources, organizations, etc., most active in their production are noted, and the sources listed (p. 26-60) in a regional order, those on Lappmark 1639-1791 and on the Lapps, p. 34-36. Summary in German and French.

**Copied seen:** DLC.

**20809. BOLKHOVITIĀNOV, V.** O rybnokhoziaistvennoi nauke na Dal'nem Vostoke. (Rybnoe khoziaistvo Dal'nego Vostoka, 1931, no. 5-6-7, p. 110-29) **Title tr.:** Fishery science in the Far East.

The study which was adopted as a basis for official planning, deals with the role and place of research in developing the local fisheries. It contains sections on: the place of science in economy; the aim of scientific research in Far Eastern fisheries; a rational plan for a Pacific fisheries research institute and a work program of such an institute.

**Copied seen:** DLC.

**20810. BOL'SHAĬA SOVETSKAĬA ÈN. TSIKLOPEDIĬA.** Aleuty. (In: Bol'shaia sovetskaiia ènsiklopediia. izd. 2-e. 1950- . v. 2, p. 96-97, illus.) **Title tr.:** The Aleuts.

Account of these people (about 5600) native to the Aleutian Islands and now settled also in the southern Alaskan coast area and Commander Islands; their physical and linguistic relationship to the Eskimos; their ancient and typical island culture; communal winter dwellings, clothing and tattooing; harpoon sea-fishing and hunting; family and clan organizations; sports, music, drama, games, and dances; their "new era" with seacoast industry, school, hospital and electric power plant in the Bering Sea region.

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**20811. BOL'SHAĬA SOVETSKAĬA ĖN-TSIKLOPEDIĬA.** Chukchi. (*In:* Bol'shaĭa sovetskaiĭa ėnsiklopediĭa, 1926-47. v. 61, col. 752-53) *Title tr.:* The Chukchis.

Brief sketch of this people (11,000) inhabiting the coastal region of Chukotsk Peninsula, Anadyr' River basin and south and westward to the tundra region; their linguistic relationship to the North American Indian; their division into settled and nomadic groups; trade, economy, food and transport; social organization, slaves and kulaks; domestic life, huts, clothing, totems and religious beliefs; their new political development; their coastal industry; laws, schools, and hospitals.

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**20812. BOL'SHAĬA SOVETSKAĬA ĖN-TSIKLOPEDIĬA.** Ĭakuty. (*In:* Bol'shaĭa sovetskaiĭa ėnsiklopediĭa, 1926-47. v. 65, col. 507-509) *Title tr.:* The Yakuts.

Contains information on the areas occupied by the Yakuts; their number (240,000); principal occupations (cattle-breeding, agriculture in the south, reindeer-breeding in the north, fishing, hunting); housing and clothing; social organization; language; history. Bibliography (7 items).

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**20813. BOL'SHAĬA SOVETSKAĬA ĖN-TSIKLOPEDIĬA.** Itel'meny. (*In:* Bol'shaĭa sovetskaiĭa ėnsiklopediĭa, 1926-47. v. 30, col. 361-62) *Title tr.:* The Itel'meny.

Sketch of this paleoasiatic people (part of Koryak group) numbering "about 4000" and inhabiting the coastal region of lower Kamchatka Peninsula and Okhotsk Sea; their stone-age culture till the mid-eighteenth century; clan settlements and communal economy; fishing, trapping and herb-gathering; dwellings,

dog-sledge transport; historical development, colonization and denationalization, the "new era" with industrial and economic growth, cultural development, schools and organized health assistance; increase in population.

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**20814. BOL'SHAĬA SOVETSKAĬA ĖN-TSIKLOPEDIĬA.** Nentsy. (*In:* Bol'shaĭa sovetskaiĭa ėnsiklopediĭa, 1926-47. v. 41, col. 612-13) *Title tr.:* The Nentsy.

Brief sketch of the people (about 15,000) formerly known as Yurak-Samoyeds, inhabiting the tundras from the Yenisey estuary to the White Sea coast and extending into Kola Peninsula and Novaya Zemlya; outline of theories of their origin; their racial position and migrations; early trade with Russians; wars for independence; language and various dialects; mode of living; fishing, trapping, hunting; whaling and other coastal industry; reindeer-breeding; their dwellings, fur clothing, transport; family and clan organizations; social stratification, economic exploitation, slaves and tribal-war prisoners; the "new era" with social and political reorganization, industrial and cultural development, collectivism and nationalization; christianization and traditional religious beliefs and practices; schools, etc.

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**20815. BOL'SHAĬA SOVETSKAĬA ĖN-TSIKLOPEDIĬA.** Voguly. (*In:* Bol'shaĭa sovetskaiĭa ėnsiklopediĭa, 1926-47. v. 11, col. 814-17) *Title tr.:* The Voguls.

Brief and informative article on this small group said to number about 5000, living along the upper Pechora and its tributaries, in the Ural region, the Ob' River basin and the upper reaches of its left tributaries; etymology of their name "Manchi", their Finno-Ugrian origin and close relationship to the Magyars; racial types and psychological characteristics; their ancient culture; history of their migrations, wars and revolts; their assimilation in the Ural mining and industrial regions and their low economic standard; their comparative prosperity as a nomadic tribe, their way of life: trapping, fishing and hunting; cattle and horses; reindeer-breeding; and agricultural products; their fur industry; weapons and implements; their transport: kayaks and reindeer sledges; domestic life and home industry; religious beliefs, customs and ceremoni-

als; songs, dances; shamanism. The "new outlook" and youth organizations; economic reconstruction, propaganda and process of nationalization.

**Copy seen:** DLC.

**20816. BOL'SHAKOV, V. S.** Gibel' ékspeditsionnogo sudna "Akademik Shokal'skiĭ". (Problemy Arktiki, 1944, pub. 1945, no. 1, p. 157-59) **Title tr.:** Wreck of the research vessel ship *Akademik Shokal'skiĭ*.

Account of the destruction by a German submarine near Blagopoluchya Bay northeastern Novaya Zemlya on July 27, 1943, of the *Akademik Shokal'skiĭ*, a research vessel specially equipped for work in the Arctic. **Copy seen:** DGS.

**BONCH-OSMOLOVSKIĬ, A. F.,** see Dal'ne-Vostochnyy Kray. Upravlenie rybolovstva i okhoty na morskogo zverĭa. Rybnye i pushnye bogatstva Dal'nego Vost. 1923. No. 21351.

**20817. BONDARENKO, B. F.** Otchet o rekognosirovochnykh geomorfologicheskikh issledovaniĭakh letom 1930 g. v. Penzhinskom raione. (Zemlevedenie, 1931. t. 33, kn. 3-4, p. 222-86) **Title tr.:** Report on the geomorphological reconnaissance investigations in the Penzhina region in the summer of 1930.

Contains the results of the Penzhina Expedition of the Far Eastern Region Scientific Research Institute, which investigated the lower course of the Penzhina River basin and the shores of the extreme northeastern part of the Penzhina Bay in northern Kamchatka with a general sketch of the geomorphology, orography and physical geography of the region explored. Summary in English, p. 282-86. **Copy seen:** NNA.

**BONDARENKO, B. V.,** see Mashkovtsev, S. F. O nekotorykh porodakh Penzhiny. 1936. No. 24224.

**20818. BONDARTSEV, APPOLINARIĬ SEMENOVICH, 1877-** . Novye dannye o trutovike *Trametes odora* Fr. (Botanicheskiĭ zhurnal, 1950. Bd. 35, no. 1, p. 73-76) **Title tr.:** New data on *Trametes odora* Fr.

Contains a Latin diagnosis and critical notes on *Trametes odora*, a spore fungus parasitic on various woody species (*Ulmus*, *Acer*, *Salix*, etc.) and occurring in the Northern Ural, described here under a new name, *Fomitopsis odoratissima*.

**Copy seen:** MH-A.

**20819. BONHAM, W. M.** The Northwest Territories in 1949. (Canadian mining journal, Feb. 1950. v. 71, no. 2, p. 82-84, illus.)

Brief report on gold mining, base metals prospecting and petroleum production and drilling, with notes on improvement of roads.

**Copy seen:** DGS.

**20820. BONHAM, W. M.** The Northwest Territories in 1950. (Canadian mining journal, Feb. 1951. v. 72, no. 2, p. 66-67)

Report on gold mining in the Yellowknife region, and brief remarks on uranium, lead-zinc, petroleum and nickel.

**Copy seen:** DGS.

**20821. BONI, ARMAND.** Roald Amundsen. Tilburg, Nederland's Boekhuis [1946]. 222 p., illus.

Popular biography of Amundsen (in Dutch), including chapters on his *Gjøa* expedition through the Northwest Passage 1903-1905, the first part (1918-21) of the *Maud* Expedition through the Northeast Passage, the flight of the airship *Norge* from West Spitsbergen to Alaska via the North Pole in 1926, and his fatal flight in search of Nobile's *Italia* expedition, in 1928.

**Copy seen:** DLC.

**20822. BONNEVIE, KRISTINE, 1872-** . Neue norwegische Hydroiden. (Bergen, Norway. Museum. Aarbok, 1898, pub. 1899. No. 5, p. 1-15, 2 plates) **Title tr.:** New Norwegian Hydroidea.

Contains descriptions of seven new species of hydroids and ten species new to the fauna of Norway, including *Coryne brevicornis* and *C. gigantea* n. spp. native to Hammerfest waters and *Eudendrium tenellum* found in Lofoten Islands.

**Copy seen:** MH-Z.

**BONNEY, THOMAS GEORGE, 1833-** , see Pearson, H. J. "Beyond Petsora eastward". 1899. No. 25015.

**20823. BONSDORFF, A. J.** Beiträge zur Kenntnis der Sturmschäden in Finnland. Helsinki, 1918. 55 p., illus., plates, 3 maps, tables, diagr. (Acta forestalia fennica, 8:2) **Title tr.:** Contributions to the knowledge of storm damage in Finland.

Storms and storm damage to forests since 1890 are reviewed and analyzed, wind resistance of various trees being noted.

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**20824. BONSDORFF, A. J.** Studien über die Sturmrichtungen in Finnland. Helsinki, 1919. 105 p., 8 maps, tables. (*Acta forestalia fennica*, 8:1) *Title tr.:* Studies on the direction of storms in Finland.

Exhaustive study of the problem based on observations from 16 stations in Finland (including Inari 1906-12, Sodankylä 1908-12, and Kuusamo 1910-14, in the North) and comparison with conditions in a number of foreign localities.

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**20825. BONSDORFF, EVERT JULIUS, 1810-1898.** Finlands tvåvingade insekter, (Diptera), fortecknade, och i korthet beskrifne. (Bidrag till Finlands naturkännedom, etnografi och statistik, 1861. Häft. 6, p. i-xii, 37-301) *Title tr.:* Two-winged insects (Diptera) of Finland recorded and briefly described.

Contains a synopsis of 39 families and 216 genera of brachycerous and nemocerous dipters, p. 37-106, and a systematic list with short descriptions of all species and varieties, inhabiting Finland, including many native to Finnish Lapland and Kuusamo region.

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**20826. BONSHTEDT, ÈL'ZA MAKSI-MOVNA.** Astrofilit Khibinskikh tundr. (Vserossiiskoe mineralogicheskoe obshchestvo. Zapiski, 1931. Ser. 2, chast' 60, p. 280-97, illus.) *Title tr.:* Astrophyllite of the Khibiny tundra.

Description of the optical and chemical properties and morphology of a titanosilicate mineral found in nepheline syenite rocks of Kukisvumchorr and Yukspor, on Kola Peninsula. Bibliography (54 items). Summary in German.

*Copy seen:* DGS.

**20827. BONSHTEDT, ÈL'ZA MAKSI-MOVNA.** Titanit (sfen). Leningrad, Izd-vo Akademii nauk SSSR, 1934. 63 p. diagr., tables, map. *Title tr.:* Titanite (sphene).

Contains a general part (p. 5-23) with historical, crystallographic, physical, chemical and other data on titanite, its genesis and modifications. The special part (p. 23-58) deals with the occurrence of titanite in the Soviet Union including the Kola-Khibiny tundra (p. 26-31) and Karelia (p. 31-33). Bibliography (over 100 items).

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**20828. BOONE, LALLA R.** A prediction regarding the Humboldt Current.

(Science, Dec. 1949. v. 110, no. 2867, p. 642-44)

Contains a discussion of factors assumed to be responsible for abnormalities in the Humboldt Current (a cold current flowing north, among the Peruvian and Chilean coasts). Tides coming down from the Arctic, and conditions causing the drift of icebergs to very low northern latitudes (43° N.) coupled with similar factors in the Antarctic may account for great anomalies in this current. The author claims that 3 years after abnormal North Atlantic iceberg conditions, their supposed effect is felt in the Humboldt Current. Bibliography (41 items). Criticism by F. M. Soule in *Arctic ice drift and the Humboldt Current*, 1950, q. v.

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**20829. BOONE AND CROCKETT CLUB.** Committee on Records of North American Big Game. Records of North American big game; a book of the Boone and Crockett Club, compiled and edited by the Committee on Records of North American Big Game. New York, Scribner, 1952. xiii, 174 p., illus.

Contains authentic records of North American big mammals including arctic game such as caribou, moose, muskox, Alaskan brown and grizzly bears, polar bear, walrus, etc. In addition to data on the measurements of the recorded animals, information is supplied on the date, locality and by whom the specimens were killed and owned. Special sections deal with the scoring system; objectives and condition of big game competition, care of trophies, etc.

*Copy seen:* DLC.

**BORAX, EUGENE,** see Hazzard, J. C., & others. Cretaceous rocks. 1950. No. 22472.

**BORAX, EUGENE,** see also Hazzard, J. C., & others. Geology of Kamishak Bay area, Cook Inlet, Alaska. 1950. No. 22473.

**BORG, EDVARD WILHELM,** see Andelin, A. Enare-Lappsk språkprof. 1861. No. 20188.

**20830. BORG, FOLKE.** Über die Süswasserbryozoen Schwedens. (Zoologiska bidrag från Uppsala, 1941. bd. 20, p. 479-94, plates 1-2) *Title tr.:* On the fresh-water Bryozoa of Sweden.

Contains a list of seven species of fresh-water bryozoans inhabiting Sweden, with data on their systematics, ecology and

geographic distribution; includes four species occurring in Swedish Lapland and Norrbotten. **Copy seen:** MH-Z.

**20831. BORG, HJALMAR.** Anteckningar öfver svenska Neuroptera. (Entomologisk tidskrift, 1901. Årg. 22, häft. 2-3, p. 175-76) **Title tr.:** Notes on Swedish Neuroptera.

**Contains** a list of 21 Swedish neuropters, including eight species native to Gällivare region in Swedish Lapland, with localities and notes on habitat.

**Copy seen:** MH-Z.

**20832. BORG, VÄINÖ.** Bericht über die geographischen Resultate einer Forschungsreise in den Grenzgegenden von Finnisch- und Russisch-Lapland im Sommer 1901. Helsingfors, 1902-1903. 59 p., 2 fold. maps. (Fennia, 20:5) **Title tr.:** Report on the geographical results of a study trip over the border areas of Finnish and Russian Lapland during the summer of 1901.

**Contains** data on the location of the area studied (67°-68° N.; 29°-32.5° E.), its petrography and mineralogy; soil; mountains and rivers; vegetation; ethnographical data on Reindeer and Fisher Lapps; meteorological summary, and tabular data on air temperature, wind direction and force, May 5-Aug. 28, along the party's itinerary.

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**20833. BORISOV, P. A.** O promyshlennom osvoenii Kol'skogo p-va. (Karelo-Murmanskii krai, 1933. v. 11, no. 3-4, p. 44-46, map) **Title tr.:** On the industrial utilization of the Kola Peninsula.

**Contains** a popular account of the mineral resources of the area; their location, extent and prospects of industrial use.

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**20834. BORISOV, P. A.** Slůda Karelo-Murmanskogo kraia. (Karelo-Murmanskii krai, 1934. no. 3-4, p. 44-46, illus.) **Title tr.:** Mica of the Karelo-Murman region.

**Contains** a brief outline of mica extraction in Russia in the past, followed by a stressing of its importance for electrical industries located mainly in Leningrad. In view of the presence of mica in the Karelia and Kola Peninsulas, the author recommends its development and an investigation of the as yet unstudied mica deposits of the area. **Copy seen:** DLC.

**20835. BORISOV, PAVEL GRIGOR'EVICH, 1889-**, and **N. S. OVSIAN. NIKOV.** Opredelitel' promyslovyykh ryb SSSR. Moskva, Pishchepromizdat, 1951. 177 p. illus. (267 fig.). (Kafedra ikhtologii i syr'evoi bazy Moskovskogo tekhnicheskogo instituta rybnoi promyshlennosti). **Title tr.:** Key to the commercial fishes of the U.S.S.R.

**Contains** an introductory chapter giving explanations of ichthyological terms (p. 6-17), followed by keys for the determination of the families (p. 18-36), genera (p. 37-62) and species (p. 63-165) of these marine and fresh-water fishes. Indexes are added giving Russian names of the families and genera, also one of Latin names. Some species native to the northern seas and rivers (arctic flounder, White sea cod, etc.) are included, although the distribution is not given.

**Copy seen:** DLC; MH-Z.

**20836. BORISOV, PAVEL GRIGOR'EVICH, 1889-**. Rezul'taty ikhtologicheskikh i promyslovyykh issledovaniĭ na reke Lene. (Akademiia nauk SSSR. Doklady, Seriia A, Sept. 1926, p. 161-63) **Title tr.:** Results of ichthyological and industrial investigations on the Lena River.

36 species of fishes and their bio-economic value are listed. Areas of fisheries and amount exported are given.

**Copy seen:** DLC.

**BORISOV, TROFIM MIKHAILOVICH,** see Dal'ne-Vostochnyy Kray. Upravlenie rybolobstva i okhoty na morskogo zveria. Rybnye i pushnye bogatstva Dal'nego Vost. 1923. No. 21351.

**BORISOVICH, F. K.,** see Shumakovich, E. E., & F. K. Borisovich. Ukazatel' literatury gel'mintologii. 1949-50. No. 26180.

**20837. BORKHSENIUS, N. S.** Chervetsy i shchitovki SSSR (Coccoidea). Moskva-Leningrad, Izd-vo Akad. nauk, 1950. 249 p., illus. (466 figs.) (In: Akademiia nauk SSSR. Opredeliteli po faune SSSR, No. 32) **Title tr.:** Coccoidea of the U.S.S.R.

**Contains** (in the general part, p. 5-22) characteristics of the suborder Coccoidea (scale insects, mealy bugs, etc.) of the U.S.S.R., morphology, metamorphosis and life history, systematic position and classification, geographic distribution, economic importance (many are injurious to plants), preparation of specimens,

literature (26 items); in the systematic part: keys for the determination of families and genera and descriptions of 441 species, with synonymy and data on ecology, host plants, injury to cultivated plants and geographic distribution; index of zoological names, p. 237-45; index of plant names, p. 246-49. Includes some species native to northern regions of U.S.S.R. **Copy seen:** DLC; MH-Z.

**20838. BORKHSENIUS, N. S.** Obzor chervetsov roda *Macrocerococcus* Leon. (Coccoidea, Pseudococcidae) Palearktiki. (Entomologicheskoe obozrenie, 1948. t. 30, no. 1-2, p. 30-39, illus., text map) **Title tr.:** A revision of mealy bugs of the palearctic genus *Macrocerococcus* Leon (Coccoidea, Pseudococcidae).

**Contains** a key for the determination of the species of mealy bugs of this genus and diagnoses of five new species, including *M. borealis* n. sp. native to the Northern Urals. **Copy seen:** MH-Z.

**20839. BORN, PAUL, 1860-1929.** Die Calosmen und *Cychnus* Norwegens. (Norsk entomologisk tidsskrift, 1927, pub. 1928. Bd. 2, hefte 4, p. 213-17) **Title tr.:** *Calosma* and *Cychnus* species of Norway.

**Contains:** a study of geographic distribution of three Norwegian species of ground beetles, including *Cychnus caraboides* and its three varieties (*caraboides*, *convexus* and *pygmaeus*) inhabiting all northern regions of Norway. **Copy seen:** MH-Z.

**20840. BORN, PAUL, 1860-1929.** Die Carabenfauna Norwegens. (Norsk entomologisk tidsskrift, 1925, pub. 1926. Bd. 2, hefte 2, p. 57-76, fold. map) **Title tr.:** Carabidae fauna of Norway.

**Contains** a survey of 14 Norwegian species of ground beetles (Carabidae) with lists of localities for each species, and a table of distribution in 41 geographic regions of Norway (proposed by T. G. Munster), with some statistical data on frequency of species in those regions; includes *Mesocarabus problematicus strandi* n. subsp., native to Tromsø, Finnmark and Sydvaranger, and four other species occurring in northern regions of Norway. **Copy seen:** MH-Z.

**BOROUGH, STEPHEN, 1525-1584, see** Abereromby, J., & A. Genetz. Earliest list Russ. Lapp words. 1895. No. 20027.

**20841. BORUM, VILLY, 1903- .** Greenland, Denmark's colony. Copenhagen, J. H. Schultz A/S., 1948. 16 p. illus. map. reprint from Danish Foreign Office Journal, no. 1-2, 1948.

**Contains** an informative précis of present-day Greenland by the Superintendent of Cultural Affairs there: natural conditions; vegetation, climate and fauna; history and people; communications; Greenlanders' mode of living; language, literature and press; economic life; administration, trade and finance; culture and education; medical affairs. A brief note is added on the effect of wartime conditions on Greenland.

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**20842. BORUM, VILLY, 1903- .** Grønland, Danmark i Nord. (København) Berlingske Forlag, 1947. 96 p. illus., diagrs. maps. **Title tr.:** Greenland, Denmark in the North.

**Contains** photographs (richly annotated in Danish and English) of historic occasions, geographic features, settlements, etc., the Greenlanders and their activities in fisheries, agriculture, mining, industry, education, etc. Health services, cultural activities are represented, reproductions of paintings, stamps, coins, etc., photographs of Danish officials, scientists and others notable for their work in Greenland, archeological and other museum objects are included. **Copy seen:** DLC.

**20843. BORUM, VILLY, 1903- .** Den Grønlandske skole og andre kulturelle institutioner. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 2, p. 179-206, incl. 9 p of illus) **Title tr.:** Greenland schools and other cultural institutions.

**Contains** sketch of the development of schools from early times when they were run by the church, to recent times when changes in Greenland law give administrative power to the Greenland Council. Includes diagrams of the administrative organization, samples of modern pictorial teaching aids, and figures on curricular changes; notes on recent development of newspaper press and radio.

**Copy seen:** DSI-M.

**20844. BORUM, VILLY, 1903- .** Den grønlandske skole, opgaver i dag og i fremtiden. (Grønlandsposten, maj 1, 1945. Aarg. 4, p. 98-102) **Title tr.:** The Greenland school, tasks to-day and in the future. **Copy seen:** DLC.

**20845. BORUTSKII, E. V.** Geograficheskoe rasprostranenie *Bryocamptus* (*Arcticocamptus*) *arcticus* Lill. na osnove ego ekologii. (Moskva. Universitet. Gosudarstvennyi zoologicheskii muzei. Sbornik trudov, 1937. t. 4, p. 135-89, illus., text map.) **Title tr.:** The geographical distribution of *Bryocamptus* (*Arcticocamptus*) *arcticus* Lill. on the grounds of its ecology.

Contains a study of the geographic distribution of a fresh-water crustacean, *Bryocamptus arcticus*, known previously from Greenland, northern Scandinavia and northern European Russia and then found in 1924 in the peat bogs near the Kossino Biological Station (Moscow government) where an extensive investigation was carried out in 1924-25. The influence of physico-chemical, geographical, ecological and biocenotic factors on the distribution of this species, considered to be of eastern arctic origin and an immigrant of post-glacial period, is studied in detail. Bibliography (65 items). Summary in English. **Copy seen:** MH-Z.

**20846. BOSTOCK, HUGH SAMUEL, 1901-** . Geology of northwest Shakhwak valley, Yukon Territory. Ottawa, 1952. v, 54 p. incl. 4 plates. front., 2 col., fold. maps, table. (Canada. Geological Survey. Memoir 267)

Contains a physiographic and geologic description of the region which extends northwestward from 60° N. 138° W. to 62°40' N. 141° W. The map area lies across the boundary between the Yukon Plateau and the St. Elias Mts. Shakhwak valley, a great fault zone which separates Paleozoic and older metamorphic rocks to the northeast from Cretaceous-Tertiary formations to the southwest, is traversed by the Alaska Highway and contains Kluane Lake. Intrusive rocks underlie the northeast section; Paleozoic, Mesozoic and Tertiary volcanic rocks are widespread; a blanket of Recent volcanic ash occurs throughout the whole region, which also shows evidence of widespread glaciation, probably late Wisconsin in age. Bibliography (28 items). Geologic map 1012A (scale 1:253,440) and map of the upper Yukon River basin showing distribution and thickness of Recent volcanic ash deposit, are included.

**Copy seen:** DGS.

**20847. BOSTOCK, HUGH SAMUEL, 1901-** . Potential mineral resources of Yukon Territory. Ottawa, 1950. 2 p. l., 29

p., fold. map. (Canada Geological Survey. Paper 50-14) mimeographed.

Notes on general physiographic and geologic features and transportation, and descriptions of eleven mineral belts and areas and eight fuel belts and areas (coal and petroleum). **Map** (two figures on one sheet) shows mineral and fuel belts and areas.

**Copy seen:** DGS.

**20848. BOSTOCK, HUGH SAMUEL, 1901-** . A sketch of road development in the Yukon Territory. (Arctic circular, Dec. 1950. v. 3, p. 63-70, map)

Historical sketch of roads and trails from the time of the Klondike gold rush to the opening of a new mining road from Whitehorse to Mayo in 1950, with notes on roadhouses, trail posts, river-crossings of the past, and route, terrain and traffic considerations in the present.

**Copy seen:** CaMAI; DLC.

**20849. BOTANICHESKII SEKTOR DVFAN.** Itogi izucheniia estestvennoi kormovoi bazy lugov i pastbishch DVK. (Akademiia nauk SSSR. Dalnevostochnyi filial, Vladivostok. Vestnik, 1938. No. 30 (3), p. 57-106, 2 plates) **Title tr.:** Results of a study of the natural fodder reserve of meadows and pastures of the Far Eastern Region.

Contains historical data on the exploration of meadows and pastures of the Far Eastern Region in the pre-revolutionary period by (S. Korzhinskii, V. Komarov, Migration Dept., K. Chukaev, 1910), and in the Soviet period; a general description of meadows and pastures of various subdivisions of this region, including the Okhotsk Sea coast, Kamchatka and Chukotsk Peninsula; various types of pastures (table 1), an inventory of the forage area of the region in 1932 (tables 2 and 3); stationary geobotanical investigations of the last ten years; bibliography (127 items). Prepared by the Botanical Sector of the Far Eastern Branch of the Academy of Sciences (DVFAN).

**Copy seen:** DLC; MH-A.

**BOTKIN, ALEKSANDR SERGEEVICH, 1866-** , see Bialynitskii-Birul'a, A. A. Kolleksiia bezpozvonochnykh. 1896. No. 20649.

**BOTKIN, ALEKSANDR SERGEEVICH, 1866-** , see also Bialynitskii-Birul'a, A. A. Materialy dlia biol. morei, II. Hydrosk. 1897. No. 20651.

**BOTKIN, ALEKSANDR SERGEEVICH, 1866-** , see also Bialynitskii-Birul'a, A.

A. Materialy dlia' biol. morei, VII. Zametka o rakoobraznykh. 1900. No. 20656.

**BOUCHÉ, MICHEL**, see Expéditions polaires françaises. Expédition arctique 1948-1950. Recueil observ. météorol. 1950. No. 21723.

**BOUCHÉ, MICHEL**, see Victor, P. É., & others. Rapport préliminaire 1949. 1950. No. 27104.

**20850. BOUDA, KARL**. Der Dual des Obugrischen. (Suomalais-ugrilainen seura. Aikakauskirja, 1933. v. 47, no. 2, p. 1-66) **Title tr.:** The dual in Ob-Ugrian.

Contains linguistic investigation of the use of dual suffixes for nouns, pronouns and verbs in Vogulian and Ostyak.

**Copy seen:** DLC; InU.

**20851. BOURLIÈRE, F.** Des oiseaux sur l'inlandsis groënlandais. (Alauda, 1952. t. 20, no. 1, p. 57-58; no. 3, p. 179) **Title tr.:** Birds on the icecap of Greenland.

Contains the observations of the author on birds in the center of Greenland icecap (70°54' N. 40°42' E.) made in 1949-51 during the French Polar Expedition: one turnstone, *Arenaria interpres* was captured and some were seen in the spring and summer of 1949 and 1950; three ptarmigan, *Lagopus mutus* were observed 300 miles from the eastern coast, and a snowy owl, *Nyctea scandiaca* was found dying near the station in 1951.

**Copy seen:** MH-Z.

**BOWEN, MARK E.**, see Johnson, W. M., & others. Correlation climatol. data Bering Sea & Aleutian I. 1944. No. 23008.

**20852. BOWER, WARD TAFT, 1881-** . The fur-seal industry of the Pribilof Islands, Alaska. Chicago, 1944. 10 p. (U. S. Fish and Wildlife Service. Fishery leaflet 77) mimeographed.

Brief résumé of history of the industry; short notes on government management methods (control and utilization); on techniques of preparation of skins for market; and statistics on herds and take of skins, 1910-44. Bibliography (16 items).

**Copy seen:** DI.

**BOWER, WARD TAFT, 1881-** , see also U. S. Fish & Wildlife Service. Alaska fishery & fur seal industries 1946-47. 1948. No. 26948.

**BOWMAN, ISIAH, ed.**, Limits of land settlement, 1937, see Hopper, B. Popu-

lation factors Soviet Siberia. 1937. No. 22709.

**BOWMAN, ISIAH, ed.**, Limits of land settlement, 1937, see also MacIntosh, W. A. Canada for settlement. 1937. No. 24085.

**20853. BOWSHER, ARTHUR LEROY, 1917-** , and **J. T. DUTRO**. Stratigraphy and paleontology of the Mississippian rocks in the central part of the Brooks Range, Alaska. (Geological Society of America. Bulletin, Dec. 1950. v. 61, p. 1445)

Abstract of a paper read before the meeting of the Geological Society of America, in Washington, D. C., Nov. 1950: notes on a conglomerate, the Noatak formation and the Lisburne limestone comprising the Mississippian rocks, studied by a U. S. Geological Survey party, 1949.

**Copy seen:** DGS.

**BOWSHER, ARTHUR LEROY, 1917-** , see also Dutro, J. T., & others. Facies Carboniferous rocks N. Alaska (abstract). 1951. No. 21586.

**BOYD, LINN J.**, see Lange, K., & L. J. Boyd. Functional pathology experimental frostbite. 1945. No. 23644.

**BOYD, LINN J.**, see also Lange, K., & others. Functional pathology experimental immersion foot. 1948. No. 23645.

**BOYD, LINN J.**, see also Lange, K., & others. Functional pathology frostbite & prevention gangrene. 1945. No. 23646.

**20854. BOYD, LOUISE ARNER, 1887-** . The Louise A. Boyd seven arctic expeditions. (Photogrammetric engineering, Dec. 1950. v. 16, p. 651-57)

General descriptive notes on equipment, plans and programs of the L. A. Boyd expeditions to Franz Josef Land in 1926 and 1928, East Greenland in 1931, 1933, 1937 and 1938, and West Greenland, 1941.

**Copy seen:** DGS.

**20855. BOYD, RICHARD R.** Flat, eaveless roof developed for Alaskan buildings. (Civil engineering, Oct. 1951. v. 21, p. 584-85, illus.)

Icing conditions and condensation forced a "change to dead level roofs with inside downspouts and no parapet walls, on both concrete-slab and frame roof construction." Notes on various problems faced by the builder in Alaska.

**Copy seen:** DLC; DGS.

**20856. BOYD, WILLIAM C.** The blood groups and types. (*In:* Viking Fund Summer Seminar in Physical Anthropology. 4th, Sept. 1949. Papers on . . . the American Indian, 1951. p. 127-37)

Contains a review of the blood groups (A, B, O) and blood types M, N, Rh in general, and among the American aborigines in particular. Analyses of Eskimo and American Indian blood groups are given but appear to be inconclusive. On the other hand M and N frequencies were found uniform among the aborigines of the New World. This applies to Eskimos, North American Indians, Mexican Indians and South American Indians.

**Copy seen:** DAI.

**20857. BOYÉ, MARC.** Glacière et périglaciaire de l'Atâ Sund nord-oriental Groenland. Expéditions polaires françaises, Missions Paul-Émile Victor. 1. Paris, Hermann, 1950. 176 p. 26 fig. in text, 37 plates, map (1 fold.) (Actualités scientifiques et industrielles 1111) **Title tr.:** Glaciation and periglacial phenomena of northeastern Atâ Sound, Greenland. French Polar Expeditions under Paul-Émile Victor, 1.

Contains the results of research on the Ege region 69°46'-69°42' N. approx. 50°15' W., south of Eqip Sermia glacier, with reference to the surface features produced by ancient inland ice and periglacial climate working on the gneiss plateau and schist-gneiss hinterland. "Ice erosion, winds, and solifluction are assumed to be responsible for the morphology of Greenland's non-glaciated coast. It has been assumed that inland ice erosion had a predominantly moving action, which does not explain the deeply crevassed topography. The periglacial deep digging hypothesis explains ice erosion as having occurred in two phases. Deep cracks developed in the surface during the periglacial phase when the 0° C isotherm extended to depths between 150-300 m. Surface rubble was carried away and turned into a till during the succeeding glacial overflow period. This theory indicates the importance of periglacial factors in erosion."—SIPRE. Includes morphological map of the area and bibliography (52 items).

Reviewed by J. Tricart in *Revue de géomorphologie dynamique*, 1951, an. 2, p. 84-87 (copy in DLC).

**Copy seen:** CaMAI; DLC.

**20858. BOYÉ, MARC.** Importance du defonçage périglaciaire dans l'éboration

des formes glaciaires. (Académie des Sciences, Paris. Comptes rendus, Oct. 10, 1949. t. 229, p. 723-24) **Title tr.:** Importance of peripheral melting of glaciers on the development of glacial forms.

Results of the French Polar Expedition, 1948, under P. E. Victor. Notes on surface features of West Greenland near Disko Bay, as related to preglacial geology and glacial action.

**Copy seen:** DGS.

**BOYER, PAUL,** see K., A. Sorciers et sorcières. 1894-95. No. 23046.

**20859. BOYLE, R. W.** Native gold in an ice lens Giant Yellowknife Gold Mines. (Canadian mining journal, May 1951. v. 72, no. 5; p. 72-74, illus.)

Description and discussion of the possible explanations of the phenomena (observed at Yellowknife, Mackenzie District) of foil gold in ice, and sponge gold found encrusted on calcite and pyrite crystals of the walls of the enclosing fracture.

**Copy seen:** DGS.

**20860. BOYLE, R. W.** An occurrence of native gold in an ice lens—Giant-Yellowknife Gold Mines, Yellowknife, Northwest Territories. (Journal of geology, Mar.-Apr. 1951. v. 46, p. 223-27)

Essentially the same as his, *Gold in an ice lens*, etc., 1951, q.v.

**Copy seen:** DGS; DLC.

**20861. BOZHICH, P. K., and N. A. DOMANEVSKIĬ.** Regulirovanie morskikh poberezh'ii i ust'ev rek. Utverzhdeno GUUZom MMF v kachestve uchebnika dlâ morekhodnykh uchilishts po gidrotekhnicheskoi spetsial'nosti. Moskva, Leningrad, Izd-vo Morskoi transport, 1948. 314 p., illus. (1 fold.), maps. **Title tr.:** Control of seashores and river mouths. Authorized by the Central Administration of Educational Institutions, Department of the Navy SSSR, as a text book for navigation schools specializing in hydrotechnics.

Contents of this engineering textbook: chapters on natural conditions of seashores; control structures and works on seashores; some information about river hydrology; the river bed and its deformation; corrective works. In addition to scattered references to arctic areas and conditions, the book contains a section on ice conditions (p. 62-65) and on the winter régime of rivers (p. 192-94). Bibliography (25 items).

**Copy seen:** DLC

**BRACONIER, JEAN JACQUES, 1915-1934**, see Nordström, F. Fjärilar samlade av Braconier. 1935. No. 24711.

**20862. BRADY, HENRY B.** On the reticularian and radiolarian Rhizopoda (Foraminifera and Polycystina) of the North Polar Expedition of 1875-76. (Annals and magazine of natural history, 1878. Ser. 5, v. 1, no. 6, p. 425-40, plates 20-21, table)

Contains tabular data on distribution of 53 species of Foraminifera brought home by Capt. H. W. Feilden, naturalist to the Nares Expedition of 1875-76, from Baffin Bay and Smith Sound, and of 23 additional species from the coast of Greenland and northern Norway; descriptions of some species abstracted from papers of various naturalists and notes on distribution of ten genera of Radiolaria from Baffin Bay, Smith Sound and Robeson Channel.

**Copy seen:** MH-Z.

**20863. BRAILSFORD, ALEXANDER MOULTRIE.** Medical service in Alaska. (Military surgeon, 1930. v. 67, p. 585-91, illus.)

Stressing the advantages for medical work at Chilkoot Barracks post and the life of the medical personnel there, the author mentions the havoc caused by tuberculosis and syphilis among the native population (Eskimos, Indians); by contrast, nutritional disorders and those of the endocrines are claimed to be rare, due mainly to a balanced diet. The work of a surgeon at the post, emergency blood transfusions, laboratory work, etc., are also described.

**Copy seen:** DSG.

**20864. BRANDER, T.** Några macrolepidopterologiska iakttagelser i Kemi sommaren 1932. (Notulae entomologicae, 1935. v. 15, no. 1-2, p. 60-62) **Title tr.:** Some macrolepidopterological observations in Kemi, in summer 1932.

Contains a list of large lepidoptera collected by the author in Kemi Lappmark with brief notes on habitat and ecology.

**Copy seen:** DLC; MH-Z.

**20865. BRANDLY, PAUL JACOB, 1909-**, and **R. L. RAUSCH.** A preliminary note on trichinosis investigations in Alaska. (Arctic, Aug. 1950. v. 3, p. 105-107)

Brief account of research by the U. S. Public Health Service, Alaska, beginning in 1949, which revealed infections

in the polar bear, arctic and red foxes, white whale, Eskimo dog, brown and grizzly bears, wolf and wolverine, after "nearly all species of land carnivores in Alaska" had been examined.

**Copy seen:** CaMAI; DLC.

**20866. BRANDSTADT, WAYNE G., 1899-** . Frostbite. (Military surgeon, Nov. 1950. v. 107, p. 386-88)

Review and summary of causes, types and treatment of frostbite as shown in published reports of various Russian investigators, translated by E. R. Hope as: *Frostbite; translations*, 1950, q. v.

**Copy seen:** DSG.

**20867. BRANDT, JOHANN FRIEDRICH, 1802-1879.** Beobachtungen über die verschiedenen Kleider der Seeotter (*Enhydra marina*), nebst einigen Bemerkungen über ihre geographische Verbreitung. (Akademiia nauk SSSR. Bulletin, 1880. v. 27, ser. 3, p. 15-22) **Title tr.:** Observations on the various pelts of the sea otter (*Enhydra marina*) with some notes on its geographic distribution.

Contains sections on the earlier work concerning color variations of the sea otter pelt; its color pattern; the black color variation common in Kamchatka; the light color variant of North America (Kodiak and California); sexual differences in color; color of the young and unborn; distribution of the species.

**Copy seen:** DA.

**20868. BRANDT, KARL, 1899-** . Whale oil, an economic analysis. Stanford, Calif. June 1940. xi, 264 p. illus., maps, graphs, tables. (Stanford University. Food Research Institute. Fats and oils studies, no. 7)

Contains preliminary remarks on the place of whale oil among the fats; part 1 on whale products and their utilization; history, international competition and cooperation in whaling; pt. 2 on whale-oil: supplies, costs and profits, demand, transport, storage and marketing, tariffs, taxes, etc., price; pt. 3 on the outlook for whale oil and whaling. Appendix tables give production by region (including Greenland, Davis Strait, Alaska whaling grounds), data on the world's whaling companies, prices, etc. Bibliography (about 250 items). **Copy seen:** DLC.

**20869. BRANDT, KARK, 1899-** . Whaling and whale oil during and after World War II. Stanford, Calif., Jan.

1948. iii, 48 p. graph, tables. (Stanford Univ. Food Research Institute. War-peace pamphlets, no. 11)

Data and discussion on economic position (to 1939) of whale oil as an important fat; effect of the war on the whaling industry; analysis of the whaling fleet (36 floating factories, all in the Antarctic except the Russian *Aleut*, 36 land stations, 416 killer boats): its wartime uses and losses; post-war reconstruction: modernization of ships, land stations (including Arctic); post-war international regulation; annual activity 1945-48; future prospects, oil and meat as foods.

**Copy seen:** CaMAI.

**20870. BRANDT, WILHELM.** Beitrag zur Microlepidopteren-Fauna Finnlands. (Notulae entomologicae, 1937. v. 17, no. 2, p. 71-72, illus.) **Title tr.:** A contribution to Microlepidoptera fauna of Finland.

Contains descriptions of three new species of small lepidopters, including *Phalonia arctica* n. sp., native to Kuusamo (Salla) region in northern Norway, and a list of five other species new to the fauna of Finland, including *Incurvaria trimaculella* f. *quadrinaculella* found in Kuusamo.

**Copy seen:** DLC; MH-Z.

**20871. BRANDTNER, ERWIN.** Beiträge zur Statistik polarer Luftdruckwellen. (Deutscher Wetterdienst in der US-Zone, *Bad Kissingen*. Berichte, 1950. Nr. 12, p. 65-71, tables, diagrs.) **Title tr.:** Contributions to the statistics on polar atmospheric pressure waves.

Using pressure wave data for Svalbard, 1912-13 to 1947-48, the author calculated a periodogram of twenty-nine waves between 80 and 8 days, for each of the 36 winter seasons. The 72-day wave while relatively frequent was not of dominating amplitude; its high persistence made it appear as an oscillation of the annual wave. The 30-day wave seldom showed dominating amplitude, but because of its relatively large phase constant, it reached a high persistence in the collective average. The 20 to 24-day and 11.3-day waves appeared independent of the calendar but showed a large number of dominating amplitudes in the frequency spectrum.—From author's abstract. Bibliography (13 items). See also *Meteorological abstracts and bibliography*, Sept. 1950, v. 1, no. 9, p. 580.

**Copy seen:** DWB.

**20872. BRANHAM, BUD.** Trap robber. (Alaska sportsman, Feb. 1950. v. 16, no. 2, p. 14-15, 24-26, illus.)

A trapper of 15 years' experience in Alaska tells about the wolverine as the worst menace to a trap line, and a predator of wildlife. **Copy seen:** DI.

**BRAUN, K.,** see Prec, O., & others. Cardiovascular effects acutely induced hypothermia. 1949. No. 25283.

**20873. BRAY, REYNOLD JOCELYN ONSLOW, 1911-1938.** Five watersheds, a winter journey to Russian Lapland. London, J. Cape, 1935. 2 p. l., 7-289 p., front., plates, ports., 2 maps (1 fold.)

Account of the author's trip with T. H. Manning, Sept.-Dec. 1932, on foot from Bodø on the northern Norwegian coast, by Kvikkjokk, Gällivare, Karesuando and Karasjok in northern Sweden, to Inari in northern Finland and across the Russian frontier; their arrest (by Russians) and return to England. Describes vividly the country traversed, travel and camping conditions, conversations with local people, etc. **Copy seen:** DLC.

**20874. BRAZHNİKOV, VL. K.** Fisheries of Russian Pacific coast, I-II. (Russian Far East; economic monthly (Tokyo) Oct. 1920-Jan. 1921. no. 1, p. 19-32; no. 2, p. 29-43, illus., fold. map, 2 fold. diagrs.) Issued also in Russian with title: *Rybnaiâ promyshlennost' na Russkom Dal'nem Vostoke, I-II* in the first (Russian) section of the magazine, no. 1, p. 24-42, no. 2, p. 35-51.

Outline (in pt. 1) of the physical and economic conditions of the coast, and (pt. 2) the fishery resources of waters from Vladivostok (42° N.) to the arctic sea, especially along the Kamchatka coasts. Comment on climatic, especially ice conditions which hamper loading and shipping; list of food fishes occurring, and discussion of herring, flatfish, and (in detail) salmon. Pt. 3, evolution of the fisheries and their present state, published in no. 3 of this magazine, has not been located. **Copy seen:** DGS.

**20875. BREEV, K. A.** О поведении кровососущих двукрылых и оводов при нападении их на северного оленя и ответных реакциях оленя, I. Поведение кровососущих двукрылых и оводов при нападении их на северного оленя. (Parazitologicheskii sbornik, 1950. t. 12, p. 167-98, illus., diagrs., tables) **Title tr.:** On the behavior of blood-

sucking Diptera and gadflies during their attack on reindeer and the defensive reaction of the reindeer, I. Behavior of blood-sucking Diptera and gadflies during their attack on reindeer.

Contains a report of an investigation of 33 species of insects during their attacks and feeding on reindeer. Direct observations as well as experiments with dummies, models, etc., were applied under various conditions. The behavior of different parasites; their preferences for certain body-regions, senses of orientation, damage, etc., are elucidated and preventive measures recommended. Bibliography (24 items).

**Copy seen:** DLC.

**20876. BREEV, K. A.** O povedenii krovososushechikh dvukrylykh i ovodov pri napadenii ikh na severnogo olenâ i otvetykh reaktsiâkh olenel II. Stadnost' u severnogo olenâ kak faktor zashchity ot napadeniâ krovososov i ovodov. (Parazitologicheskii sbornik, 1951. v. 13, p. 343-54, tables) **Title tr.:** On the behavior of blood-sucking diptera and gadflies during their attacks on reindeer and the defensive reactions of the reindeer, II. Gregariousness of the reindeer as a factor against attacks of blood-suckers and gadflies.

Contains results of a study of the effect herding has on the frequency of bites from the various flies. When the herd is small and the insects numerous, no effect is observed and the individuals resort to the usual defense of running or plunging into water. In large herds, most animals on the periphery are attacked to some degree, the rest being but little molested since there are not many flies in proportion to the number of the animals. This may be a factor in causing gregariousness during the summer. Bibliography (31 items).

**Copy seen:** DLC.

**20877. BREHM, ALFRED EDMUND, 1829-1884.** Auf Forscherfahrt in Nord und Süd; Erlebnisse bei Mensch und Tier. Hrsg. von Carl W. Neumann. Stuttgart, K. Thienemann [1925] 203 p., col. illus. **Title tr.:** From travels north and south; adventures among men and animals. Edited by Carl W. Neumann.

Sketches from the experiences of a well-known 19th-century naturalist in far-away places. These include (in chap. 1) observations of bird rocks of the far North, made during a trip in 1860 through Swedish Lapland to North Cape, Nor-

way; chap. 2, the life of the eider duck; chap. 19, the tundra and its natural history; chap. 20, a sojourn among the Ostyaks. Chap. 19-20 are based on a journey in 1876 through the Siberian steppes and tundra. **Copy seen:** DLC.

**20878. BREITFUS, LEONID L'VOVICH, 1864-1950.** Biogeographischer Beitrag zur Kenntnis der Spongienfauna der Arktis. (Gesellschaft naturforschender Freunde zu Berlin. Sitzungsberichte, 1929, pub. 1930. p. 274-82, incl. 8 p. of tables) **Title tr.:** Contribution to knowledge of the distribution of arctic sponges.

Tabular presentation of sponges collected in 1906 aboard the *Andrei Pervozvannyi* in Barents and Kara Seas, with location, depth and type of bottom of each station and the temperature and salinity of the ocean water.

**Copy seen:** DSI-M.

**20879. BREITFUS, LEONID L'VOVICH, 1864-1950.** Die Erforschung der Polargebiete in den Jahren 1932 bis 1947. Gotha, Justus Perthes, 1950. xvi, 320 p. (Geographisches Jahrbuch, Bd. 60) **Title tr.:** Exploration of the polar regions in the years 1932 to 1947.

Contains bibliography of 4,518 items covering the arctic and the antarctic regions. The arctic bibliography (p. 42-247) is presented in regional chapters: the Arctic as a whole, the Eurasian region generally, the West European region (Scandinavia, Svalbard, Jan Mayen), the East European region (of U.S.S.R. including Franz-Josef Land, Novaya Zemlya and other islands), the North Asiatic region (Siberia and the far East), the North American region (Alaska, Canada, and Greenland). Each regional chapter deals with history, expeditions, geology and paleontology, climate and geophysics, oceanography, ethnography, zoology, biology, and botany. Special topics and problems are dealt with, e. g. effects of cold and results of treatment (p. 31-32), reindeer breeding (p. 87-91), a necrology of polar investigators (p. 16-21), polar institutions, Second International Polar Year 1932-33, etc. A total of 638 expeditions is stated to have been carried out to the Arctic in the period 1932-47 (289 by the Russians). Each chapter or section includes a brief survey or review statement by Breitfus of the literature listed, but papers, etc., themselves are not abstracted or summarized individu-

ally. Titles are given in the vernacular except Russian (authors and titles) which are Germanized or Anglicized. Index of authors is appended p. 299-319.

**Copy seen:** DLC.

**20880. BREITFUS, LEONID L'VOVICH, 1864-1950.** Note sur la faune des calcaires de l'Océan Arctique. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1898. t. 3, no. 1, p. 12-38) **Title tr.:** Note on the calcareous fauna of the Arctic Ocean.

*Contains* historical notes on the study of sponges, a critical survey of the fauna of the arctic calcareous sponges with lists of the species occurring in the White and Barents Seas, geographic distribution of 42 calcareous sponges in Greenland, White, Kara and other arctic seas, bathymetric distribution of the arctic species.

**Copy seen:** DLC; MH-Z.

**20881. BREITFUS, LEONID L'VOVICH, 1864-1950.** Spisok stanitsiĭ Ėkspeditsii dlia nauchno-promyslovyykh issledovaniĭ Murmana v Barentsovom more i obzor proizvedennykh na nikh rabot v 1903. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1904. t. 9, p. i-xiii) **Title tr.:** A list of the stations of the Murmansk Scientific-Economic Expedition and a survey of the investigations carried out in 1903.

*Contains* a list of about 120 stations in Barents Sea and in Catherine Harbor (Yekaterininskaya Gavan'), on which hydrological and zoological investigations were carried out in 1903 as part of the Murmansk Scientific-Economic Expedition 1898-1908; with hydrological data and brief description of work done.

**Copy seen:** DLC; MH-Z.

**20882. BREKKE, REIDAR.** Norwegian caddis flies (Trichoptera). (Norsk entomologisk tidsskrift, 1946. Bd. 7, hefte 5, p. 155-63)

*Contains* some historical notes and data on collections of caddis flies in Norwegian museums, and a revised list of 141 species with tabulated data on their distribution in 19 geographic regions in Norway, including the northern provinces.

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**20883. BREKKE, REIDAR.** The Norwegian mayflies (Ephemeroptera). (Norsk entomologisk tidsskrift, 1938. Bd. 5, hefte 2, p. 55-73, illus.)

*Contains* data on Norwegian ephemeroptera described by older authors, a table

of distribution of 38 species of Norwegian mayflies in Denmark, Finland and Sweden, a systematic list of species with Norwegian localities and a bibliography (52 items). **Copy seen:** MH-Z.

**20884. BREKKE, REIDAR.** The Norwegian stoneflies. Plecoptera. (Norsk entomologisk tidsskrift, 1941. Bd. 6, hefte 1, p. 1-24, illus.)

*Contains* a critical revision of 34 species of Norwegian stoneflies, with data on Plecoptera collections of the Oslo Museum and lists of these flies published by earlier entomologists with critical notes on various species, a table of distribution of Norwegian species in Denmark, Finland and Sweden and a list of Norwegian species with localities; bibliography (43 items).

**Copy seen:** MH-Z.

**20885. BREMNER, P. C.** Permafrost drilling at Resolute Bay. (Arctic circular, Jan. 1952. v. 5, no. 1, p. 10-11)

*Progress report* on a geothermal study of permafrost by the Dominion Observatory cooperating with the Canadian Meteorological Service and the U. S. Weather Bureau at Resolute Bay (74°42' N. 94°34' W.) on Cornwallis Island. "A diamond drill was used to bore a hole 1.5 in. in diameter to accommodate a thermometer. A temperature of 8° F was determined at a depth of 100 ft. at the end of the summer of 1950. A large fire-tube boiler supplemented a gravity-feed boiler in heating water to near the boiling point to prevent the drill rods from freezing in the hole. A depth of 450 ft. was reached at the end of the summer of 1951. Rock samples were obtained during the drilling process."—SIPRE. **Copy seen:** CaMAI; DLC.

**20886. BREMNER, P. C.** The seismic observatory at Resolute Bay. (Arctic circular, Jan. 1952. v. 5, no. 1, p. 8-9)

*Contains* report of the preliminary survey and, in 1950, establishment of the station on bed rock about 1000 ft. south of the meteorological station at Resolute on Cornwallis Island; details on the building and apparatus; the records and peculiar conditions of the station: "while there has been little indication that the Eastern Arctic Islands are seismic, few days pass that an earthquake is not recorded . . . earth tremors from Alaska, the Aleutian Islands and occasionally from northern Siberia . . . the time of arrival of the first shock wave . . . is radioed to Ottawa then to Washington."

Author notes also opportunity afforded by this station for study of the geological structure beneath the Arctic Ocean, Bering Sea and North America, and for "solving the mystery of microseisms."

*Copy seen:* DLC.

**20887. BREMNER, P. C.** Seismic observatory for the Arctic. (Arctic circular, Feb.-Mar 1950. v. 3, p. 15-17)

Note announcing the erection of a seismological station at Resolute Bay on Cornwallis Island, in the summer of 1950, by the Dominion Observatory of Canada; with remarks on distance separating detectors and recorders, the special plywood building buried in gravel to prevent wind vibration, etc.

*Copy seen:* CaMAI; DLC.

**BREMNER, P. C.,** *see also* Thomson, A., & P. C. Bremner. Permafrost & soil temp. Cornwallis I. 1942. No. 26688.

**BRENNER, CHARLES,** *see* Denny-Brown, D., & others. Pathology injury to nerve. 1945. No. 21423.

**20888. BRENNER, THORJ JOHANNES, 1892-** . Maalajit geoteknillistä näkökannalta. (Teknillinen aikakauslehti, 1925. v. 15, no. 3, p. 169-181, diagr.). *Title tr.:* Soil types from a geotechnical viewpoint.

*Contains* data on the physical properties of six rocky soil types and three organic soil types (with subdivisions) of which several occur in the far North in Finland.

*Copy seen:* DLC.

**20889. BRENNER, THORJ JOHANNES, 1892-** . Über Theralit und Ijolit von Umptek auf der Halbinsel Kola. Helsingfors, 1920. 30 p., tables, diagr. (Finland. Geologinen toimikunta. Geologiska kommission. Bulletin, v. 10, no. 52) *Title tr.:* Theralite and ijolite from Umptek on the Kola Peninsula.

An account of the two kinds of rocks at Umptek in Khibiny is given. The minerals and chemistry of theralite are described and a comparison with other theralitic rocks is made. An account of the mineralogy and chemistry of ijolite follows. An appendix contains chemical analyses of theralites and related rocks.

*Copy seen:* DLC.

**20890. BRESSER, KARL.** Neue Inseln im Foxe-Basin, westlich von Baffin-Land. (Erdkunde, 1952. Bd. 6, p. 184, sketch map) *Title tr.:* New islands in Foxe Basin, west of Baffin Island.

*Contains* a brief notice and some geographic data on Prince Charles, Foley and Air Force Islands discovered in 1948 by the Canadian Royal Air Force in Foxe Basin.

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**20891. BRESSLER, CALVER TUPPER, 1919-** . Garnet deposits near Wrangell southeastern Alaska. Washington, D. C., U. S. Govt. Print. Off., 1950. iii, 81-93, p. 2 fold. maps. (U. S. Geological Survey. Bulletin 963-C) Mineral resources of Alaska, 1945-46, pt. C.

*Contains* description of the general geology, followed by account of the location, size, grade, and mineralogy of the almandite garnet deposits formed in the schists which lie on the west margin of the Coast Range batholith a few miles north of Wrangell, Alaska.

*Copy seen:* DGS.

**20892. BREVIG, TOLLEF LARSON, 1857-1935.** Apaurak in Alaska; social pioneering among the Eskimos, translated and compiled from the records of the Reverend T. L. Brevig, pioneer missionary to the Eskimos of Alaska, from 1894 to 1917, by Dr. Walter Johnshoy. Philadelphia, Dorrance & Co., [1944]. xvii, 19-325 p., front., 71 plates (incl. ports., facsim.) on 36 leaves.

A reminiscent account (written about 1929 with details drawn from his official day-book) of the author's (Apaurak's) life and work in northwestern Alaska whither he was sent by the U. S. government as Norwegian-American Lutheran pastor to Lapp herdsmen brought to Alaska to train Eskimos in reindeer husbandry. He had charge of the mission and reindeer station at Port Clarence and Teller, 1894-1908, 1913-17, was also postmaster of Teller and government commissioner north of Nome. His chronicle mainly recounts in simple often anecdotal style, the customs and attitudes of the Eskimos during a period when their traditional way of life was being fundamentally changed by association with the white man. It includes however, passing remarks, occasionally contentious, on white men and their activities, development of his own mission's work, epidemics, the gold rush, Captain Jarvis' overland expedition in 1898 for the relief of whalers at Point Barrow, territorial government affairs, details of reindeer management and the sale of the reindeer to the Lomen Co. in 1917, etc. The author's 72 illustra-

tions are mainly from photographs of natives, reindeer and mission.

**Copy seen:** DLC.

**BRICARD, J.**, see Robley, R., & others. *Spectre de l'aurore boréale*. 1950. No. 25601.

**20893. BRICK, ANNA RIWKIN.** Nomads of the North; pictures by Anna Riwkin-Brick, text by Elly Jannes. Stockholm, Kooperativa förbundets bokförlag, 1950. [86] p., illus. Also published in Swedish as *Vandrande by*.

Eighty-four photographs, result of the author's sojourn among the Reindeer Lapps of Jokkmokk, Swedish Lappland, in 1942; with introduction and descriptive notes translated by William Cameron and Karin Wander. The illustrations show the year-round activities, homes and natural surroundings of these semi-nomadic people, particularly details of reindeer herding, social customs and costumes. Each illustration is accompanied by an informative note.

**Copy seen:** DLC.

**20894. BRICK, ANNA RIWKIN.** *Vandrande by*. Bild Anna Riwkin-Brick, text Elly Jannes. Stockholm, Kooperativa förbundets bokförlag och Veckotidningen Vi, 1950. [86] p., illus. **Title tr.:** The nomadic community. Pictures by Anna Riwkin-Brick, text by Elly Jannes.

Swedish edition of the author's *Nomads of the North*, 1950, q. v. **Copy seen:** DLC.

**20895. BRIER, G. W.** Northern Hemisphere surface pressure and climatic fluctuations and vegetation growth in northern Finland. (Nature, May 1948. v. 161, no. 4097, p. 730-31, diags.)

Referring to an article by I. Hustich "Climatic trends and vegetation growth in Finland 1890-1939" (*Arctic Bibliography* No. 7589), Brier draws attention to his recent note on the considerable decrease of total air mass over the Northern Hemisphere in this period (1899-1939). This indicates that there was a tendency for maximum tree growth in northern Finland during the years of low average pressure over the Northern Hemisphere. It is suggested that in northern latitudes, low mean pressure is associated with high mean temperature. During the period under consideration summer temperatures increased in northern Finland and were responsible for increased tree growth. Bibliography (4 items).

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**20896. BRIGHT, NORMAN.** Billy Taylor, sourdough. (American alpine journal, 1939. v. 3, p. 274-86, plate (port.))

Report of an interview in 1937, with W. Taylor, one of the four Alaskan sourdoughs who climbed the north peak of Mt. McKinley in 1910, in the expedition organized by T. A. Lloyd. Includes notes on the ascent.

**Copy seen:** DGS; NNA.

**20897. BRINCK, PER SIMON VALDEMAN, 1919-** Beitrag zur Kenntnis der Wasserkäfer Grönlands. (Opuscula entomologica, 1940. Bd. 5, häft. 2-4, p. 37-41, illus.) **Title tr.:** A contribution to the knowledge of aquatic Coleoptera of Greenland.

Contains descriptive notes on aquatic beetles of Greenland, including *Colymbetes dolobratius* and its three subspecies (*dolobratius* f. typ., ssp. *thomsoni* and ssp. *grönlandicus*) and *Gyrinus opacus*, with critical notes and data on Greenland and total distribution.

**Copy seen:** MH-Z.

**20898. BRINCK, PER SIMON VALDEMAN, 1919-** Beitrag zur Kenntnis einiger kritischer Wasserkäfer-Arten. (Norsk entomologisk tidskrift, 1943. Bd. 6, hefte 4-5, p. 140-53, illus., text map) **Title tr.:** A contribution to the knowledge of some critical species of aquatic beetles.

Contains critical notes on seven species of fresh-water beetles, including *Desonectes griseostriatus* ssp. *strandii* (arctic coast), *D. multilineatus* and *D. assimilis* ab. *frater* (Swedish Lapland), and *D. assimilis* var. *hyperboreus* (Norrbotten) continued as the author's *Zweiter Beitrag* . . . 1944, q. v. **Copy seen:** MH-Z.

**20899. BRINCK, PER SIMON VALDEMAN, 1919-** Catalogus insectorum Sueciae, IX. Anoplura. (Opuscula entomologica, 1948. Bd. 13, häft. 3, p. 129-33, text map) **Title tr.:** Insect catalog of Sweden, IX. Anoplura.

Contains historical notes on the study of ectoparasites in Sweden and a systematic list of 18 species of lice (Anoplura) with tabulated data on distribution in Sweden, including Swedish Lapland and Norrbotten, and a host list, based on Swedish collection data only; text in English. For other parts, see *Catalogus insectorum Sueciae*, I- .

**Copy seen:** MH-Z.

**20900. BRINCK, PER SIMON VALDEMAN, 1919-** . *Catalogus insectorum Sueciae*, X. Plecoptera. (Opuscula entomologica, 1949. Bd. 14, häft. 2-3, p. 177-83, text map) *Title tr.*: Insect catalog of Sweden, X. Plecoptera.

Contains historical notes on the study of stoneflies in Sweden, and a systematic list of 34 species with tabulated data on their distribution in Sweden, including Swedish Lapland, and a list of important synonyms. For other parts see *Catalogus insectorum Sueciae*, I- .

*Copy seen:* MH-Z.

**20901. BRINCK, PER SIMON VALDEMAN, 1919-** . Hymenoptera aculeata, Coleoptera, Siphonoptera, Ephemera Plecoptera; Nematoda, Cestoda, Turbellaria. (In: Brinck, P. S. V., and K. G. Wingstrand *Mountain fauna of Virihaure* 1951, pt. 2, p. 60-65, 73-99, 122, 127-31, 171-73)

Contains systematic lists of 16 bees and wasps (p. 60-65); 166 species of various beetles: littoral beetles and beetles occurring on faeces, carcasses and in animal nests (p. 73-97); two species of fleas (p. 98-99); five ephemera (p. 122); nine stoneflies (p. 127-31); four fresh-water nematodes, seven cestodes and two turbellarians (p. 171-73); with notes and data on habitat, ecology and Scandinavian and total distribution.

*Copy seen:* MH-Z.

**20902. BRINCK, PER SIMON VALDEMAN, 1919-** , and K. G. WINGSTRAND. The mountain fauna of the Virihaure area in Swedish Lapland. Lund, Gleerup, 1949-51. 2 pt.: 69 p. illus.; 173 p. illus. (Fysiografiska Sällskapet i Lund, Handlingar, Ny fjöld, Bd. 60-61, pub. as: Lund, Universitet, Årsskrift, Ny fjöld, Åv. 2, Bd. 45, no. 2; (pt. 2) 1950, pub. 1951, Bd. 46, no. 2).

Contains results of a study of the alpine fauna of the Virihaure area, Lule Lappmark, Sweden, carried out in the summer of 1944 and supported by the Swedish Academy of Sciences and Physiographical Society of Lund, with an ecological analysis of the fauna (in pt. 1, *General account*) and taxonomic and zoogeographic study (in pt. 2, *Special account*); under direction of P. Brinck and K. Wingstrand and with assistance of fourteen specialists.

Pt. 1 (70 p.) Brinck, P. S. V., and K. G. Wingstrand. *General account*. Data on physiography of the Virihaure area: topography, geology, vegetation belts, climate; terrestrial fauna; the biotopes

and their fauna, the relationship of biotopes and their zoogeographical character; aquatic fauna: the biotopes and their fauna, the relationship of the water biotopes and their zoogeographical character; bibliography (34 items).

Pt. 2. *Special account:* AHLBERG, O. Thysanoptera (p. 132).

ANDER, K. E. V. Odonata, Orthoptera (p. 123-26, 135-37).

BACKLUND, H. O. Oligochaeta, Lumbricida (p. 161).

BRINCK, P. S. V. Hymenoptera aculeata, Coleoptera, Siphonoptera, Ephemera, Plecoptera; Nematoda, Cestoda, Turbellaria (p. 60-65, 73-99, 122, 127-31, 171-73).

HOLGERSEN, H. Hymenoptera aculeata, Fam. Formicidae (p. 65-68).

HOLM, A. Opiliones, Araneae, (p. 138-49).

LINDQVIST, E. Hymenoptera tenthredinoidea, with an appendix by W. Hellén (p. 69-72).

MONTÉN, E. Nematomorpha (p. 162-70).

ODHNER, N. J. Swedish high mountain Mollusca (p. 26-50).

OSSIANNILSSON, F. Hemiptera (p. 51-59).

OVERGAARD, C. Mallophaga (p. 133-34).

RINGDAHL, O. Diptera Brachycera (p. 101-107).

SYLVÉN, E. Lepidoptera (p. 108-117).

TJEDER, B. Diptera Nematocera, Trichoptera Neuroptera (p. 100-101), 118-21).

WINGSTRAND, K. G. Vertebrata, Crustacea, Hirudinea (p. 6-25, 150-59, 160-61).

Each author's work (in pt. 2) appears in this Bibliography under his name.

*Copy seen:* MH-Z.

**20903. BRINCK, PER SIMON VALDEMAN, 1919-** . Några intressanta skalbaggsfynd, II. (Opuscula entomologica, 1941. Bd. 6, häft. 1, p. 33-36) *Title tr.*: Some interesting finds of beetles, II.

Contains zoogeographic data on 25 species of beetles, including *Gyrinus aeratus*, *Choleva aguilonia* and *Apion punctirostre* ssp. *scandinavicus* found in Swedish Lapland. Pt. 1 does not include arctic material. *Copy seen:* MH-Z.

**20904. BRINCK, PER SIMON VALDEMAN, 1919-** . Notes on Anoplura, especially with regard to the Swedish

species. (Opuscula entomologica, 1948. Bd. 13, häft. 3, p. 134-56, illus.)

· *Contains* 6 parts: 1 (p. 134-37), Nomenclatorial notes; 2 (p. 137-40), Taxonomical notes; 3 (p. 140-42), General remarks on the geographical and host distribution of sucking lice; 4 (p. 142-45), Seasonal and regional variations of the lice populations on the host; 5 (p. 145-48), The importance of the Swedish sucking lice infesting man and domestic animals with some notes on their control; 6 (p. 148-54), Swedish collection data: a list of 17 species of lice, including five native to northern Sweden; the distribution of body louse, *Pediculus humanus* subsp. *humanus* based on doctors' records (mainly of refugees) from various provinces during the war. Bibliography (53 items) p. 154-56. **Copy seen:** MH-Z.

**20905. BRINCK, PER SIMON VALDEMAN, 1919-** . Studies of Swedish stoneflies (Plecoptera). Lund, Entomologiska sällskapet, 1949. xi, 250 p., 61 figs. (Opuscula entomologica. Supplementum eleven)

*Contains* (in pt. I, p. 1-114) synonymy, taxonomy and distribution of northern stoneflies (Plecoptera) with special regard to the Swedish species, including a check list of stoneflies found in Denmark and Fennoscandia (p. 22-23), and a systematic list of 34 Swedish species with synonymy, critical notes and data on Swedish (lists of localities) and general distribution; includes more than 20 species representative of northern regions. Pt. II (p. 115-215) presents ecology of Swedish stoneflies with data on the life history, nymphs and their life cycle, nutrition, shortwingedness and ecological distribution (habitats and zoömes); Pt. III (p. 217-33): chorology of Swedish stoneflies, Bibliography (about 280 items); index of specific names, p. 247-50.

**Copy seen:** MH-Z.

**20906. BRINCK, PER SIMON VALDEMAN, 1919-** . Zweiter Beitrag zur Kenntnis kritischer Wasserkäfer-Arten. (Opuscula entomologica, 1944. Bd. 9, häft. 3-4, p. 149-54, illus.) **Title tr.:** Second contribution to the knowledge of critical species of aquatic beetles.

*Contains* a taxonomic study of some critical species of aquatic beetles, including *Halipetus lineolatus* f. *typica* from Finnmark, Norway, and *H. l.* ssp. *sahlbergi* native to Swedish and Finnish Lapland and to Dudinka in the lower Yenisey River region. For additional

information see the author's *Beitrag z. Kenntnis*, 1943. **Copy seen:** MH-Z.

**20907. BRINKMANN, AUGUST, 1878-1940.** Coccidiosis hos lirypen. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1926, pub. 1927, nr. 9, p. 1-71, illus., plate) **Title tr.:** Coccidiosis of the willow grouse.

*Contains* a study of coccidiosis in willow ptarmigan, an infectious disease caused by epithelial protozoan parasite, *Eimeria avium*; with data on the development of parasite, the seat, degree and course of infection and the cause of the variation in the stock of willow grouse; based partly on the material from Finnmark, northern Norway; bibliography (32 items). Summary in English, p. 58-63.

**Copy seen:** MH-Z.

**20908. BRINKMANN, AUGUST, 1878-1940.** Equidenstudien I-II. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1919-20, pub. 1921, nr. 5, p. 1-35, [1-3] plates 1-3) **Title tr.:** Horse studies I-II.

*Contains* in part I a description and dimensions of so called "Lofoten horse", a dwarfish, long-haired geographic race inhabiting northern Norway, which was still in existence in the end of 18th century, and a discussion of its relationship with other horse races.

**Copy seen:** MH-Z.

**20909. BRINKMANN, AUGUST, 1878-1940.** Lirypens entoparasiter (The entoparasites of the willow grouse). (Bergen, Norway. Museum. Aarbok; naturvidenskapelig rekke, 1921-22, pub. 1923, no. 3, p. 1-41)

*Contains* the results of the study of entoparasites of the willow ptarmigan (*Lagopus lagopus*) causing a fatal decrease of this bird in Norway; with data on seven parasites, including the vicious *Eimeria avium*, causing so-called coccidiosis in grouse, black cock and capercaillie (*Tetrao urogallus*), another protozoan *Spirochaeta loati* and some tape and thread-worms. The study was partly based on material from Helle, Lofoten (see table, p. 39-41). Summary in English.

**Copy seen:** MH-Z.

**20910. BRINKMANN, AUGUST, Jr.** On the morphology of *Microfilaria lagopodii* (Haaland 1928). (Bergen, Norway. Universitet Aarbok; naturvidenskapelig rekke, 1949, pub. 1950, nr. 4, p. 1-13, illus.)

Contains the results of the morphological study of *Microfilaria lagopodis* from the blood of the Norwegian willow ptarmigan (*Lagopus lagopus* L.) with a table of measurements in microns and percent, and a discussion of the relationship of this species with other bird parasites (table 2, p. 12); based partly on material from Finnmark, northern Norway.

**Copy seen:** MH-Z.

**20911. BRINNER, LUDWIG, 1883-** . Die deutsche Grönlandfahrt. Berlin, K. Curtius, 1913. xxiv p., 1 l., 540 p. (Abhandlungen zur Verkehrs- und Seegeschichte im Auftrage des Hansischen Geschichtsvereins herausg. von Dietrich Schäfer. Bd. VII) **Title tr.:** The German Greenland voyages.

Published in part as the author's inaugural dissertation Berlin, 1912 (48 p.), a well-documented history of German traffic to Greenland particularly in the 17th-18th centuries, with chapters (in the general part, p. 1-123) on purposes and aims of the voyages, whaling, sealing, walrus hunting, ice conditions, and climate, boats and equipment, personnel, financial and legal aspects. Then follows a chronological account (p. 127-510) of the voyages made from the Hanseatic cities of Hamburg, Bremen, Lübeck and from other places. Much unpublished material is included, such as chambers of commerce reports, archives, etc. (these are listed on p. xi-xiii) and text of a few given in the appendix (p. 511-40).

**Copy seen:** DLC.

**BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, see Nature.** Life in extreme environmental conditions. 1951. No. 24582.

**20912. BROBECK, JOHN R.** Physiology of heat and cold. (Annual review of physiology, 1946. v. 8, p. 65-88) Review and summary of work published in this field during the previous 1-2 years with sections on: heat stress; therapeutic use of heat; cold stress; therapeutic use of cold; mechanism of temperature regulation. Bibliography (143 items).

**Copy seen:** DSG.

**20913. BROCH, HJALMAR, 1882-** . Die Aleyonaceen des Kolafjordes. (Raboty zoologicheskogo i zootomicheskogo kabineta Izd. SPB universiteta i Murmanskoi biologicheskoi stantsii IZD. SPB Obschestva estestvoispytatelei, no. 1 pub. as Leningradskoe obschestvo,

estestvoispytatelei. Trudy, 1912. t. 41, no. 4, p. 1-27, illus., fold. map) **Title tr.:** Aleyonarians of Kola Bay.

Taxonomic treatment of species of the genus *Eunephthya*, sketch of geographic distribution within the bay; based on work of Kükenthal and that of Derügin of the Murman Biological Station.

**Copy seen:** DLC.

**20914. BROCH, HJALMAR, 1882-** . Bemerkungen über *Clavularia arctica* (M. Sars). (Norske videnskabers selskab, Trondhjem. Skrifter, 1911, pub. 1912, nr. 4, p. 1-8, illus.) **Title tr.:** Comments on *Clavularia arctica* (M. Sars)

Contains a critical revision of a coelenterate, *Clavularia arctica*, native to Varangerfjord, northern Norway (first described by M. Sars as *Rizozenia arctica*) with synonymy and emended diagnosis.

**Copy seen:** DLC; MH.

**20915. BROCH, HJALMAR, 1882-** . Coelenterates in the publications of J. E. Gunnerus; a contribution to the history of Norwegian zoology. (Norske videnskabers selskab, Trondhjem. Skrifter, 1917, pub. 1918, nr. 4, p. 1-17, illus., plate)

Contains a critical revision of the coelenterates described in the publications of Bishop Gunnerus with their interpretation in the light of modern terminology; includes *Isidella lofotensis* M. Sars (*hipuris* (Gunnerus)) and a few other species native to northern Norway.

**Copy seen:** DLC; MH.

**20916. BROCH, HJALMAR, 1882-** . Hydroidenuntersuchungen VII, *Corymorpha* (*Euphysa*) *annulicornis* M. Sars 1859. Oslo, J. Dybwad, 1937. 32 p. illus. (Norske videnskaps-akademii, Oslo. I Matematisk-naturvidenskapelig klasse. Avhandling, 1937, no. 8) **Title tr.:** Hydroid investigations VII, *Corymorpha* (*Euphysa*) *annulicornis* M. Sars 1859.

Contains a study of *Corymorpha annulicornis*, a hydroid found in various places along the Norwegian seacoast, including Tromsø waters, with a table of dimensions, p. 22-31, synonyms and data on morphology and geographic distribution.

**Copy seen:** DLC; MH-Z.

**20917. BROCH, HJALMAR, 1882-** . Investigations on Stylasteridae (Hydromedusae). Oslo, J. Dybwad, 1942. 113 p. illus., plates 1-6. (Norske videnskaps-akademi, Oslo. I, Matematisk-naturvidenskapelig klasse, Skrifter, 1942, no. 3)

Contains a taxonomic study of subfamilies Distichoporinae and Sporadoporinae of the coral family Stylasteridae, with keys to the species and descriptions of a new genus, 18 (including seven new) species and three varieties; zoogeographic remarks (p. 64-71) with data on distribution in the Okhotsk and Bering Seas and the Gulf of Alaska, notes on the structure and development of gonophores and skeleton of Stylasteridae, p. 72-111; bibliography (47 items). This paper is a continuation of the author's *Untersuchungen an Stylasteriden*, I, 1936, q. v.

**Copy seen:** DLC; MH.

**20918. BROCH, HJALMAR, 1882- .** *Norwegische Heringsuntersuchungen während der Jahre 1904-1906.* Unsere Heringsstämme und ihre Wanderungen. (Bergen, Norway. Museum. Aarbok. 1908 no. 1, p. 1-47, illus., tables 1-14, maps 1-3, plates 1-10) **Title tr.:** Norwegian herring studies during the years 1904-06. Our herring races and their migration.

Contains a study of geographic races of the herring of Norwegian waters, including Bohuslan herring, northern Bankherring and Norwegian early herring, along the western coast of Norway up to 68° N., carried out in 1904-1906, on the steamer *Michael Sars*, with data on the size and age, statistico-biological observations, 14 tables of tabulated data for various stations and ten plates of diagrams.

**Copy seen:** MH-Z.

**20919. BROCH, HJALMAR, 1882- .** *Untersuchungen an Stylasteriden (Hydrokorallen), Teil I.* Oslo, J. Dybwad, 1936. 103 p. illus., plates 1-13. (Norske videnskaps-akademi, Oslo. I, Matematisk-naturvidenskapelig klasse, Skrifter, 1936, no. 8) **Title tr.:** Investigations on Stylasteridae (Hydrocorals), part 1.

Contains a discussion of the subfamily Stylasterinae, a key to the species of coral genus *Stylaster* and an enumeration of 25 species (eight described as new) and seven forms of Stylasterinae, with synonyms, descriptions, notes and data on geographic distribution. Includes five species collected by P. Ushakov in the Okhotsk Sea and two species from Alaskan waters. For continuation, see the author's *Investigations on Stylasteridae*, 1942.

**Copy seen:** DLC; MH.

**20920. BROCH, OLAF, 1867- .** *Končanskaja lop', Murmanskij konec.* (Studia

Septentrionalia, 1945. v. 2, p. 54-68)

**Title tr.:** Lapps of the Murman end.

Contains a study (based on Russian sources dating back to the 16th century) of conditions and people (Lapps) on Kola Peninsula, dealing especially with place names and occupations. The region studied extended on the northern side of Kola, as far east as Svyatoy Nos and River Lumbovka (Lumboška) (roughly coextensive with the present-day Murmanskij bereg), and formed the end of the Norwegian fiscal district.

**Copy seen:** DLC; InU.

**BROCH, OLAF, 1867- , see also** Nesheim, A. Russ. og russ.-finske länord. 1947. No. 24613.

**20921. BROCKAMP, BERNHARD, 1902- .** Die barometrische Höhen-

berechnung auf der Deutschen Grönlandexpedition A. Wegener; Oberflächenform des Inlandeises und des Felsuntergrundes. (Neues Jahrbuch für Mineralogie, Geologie und Palaeontologie, 1951. Monatshefte [no. 2, Feb.], p. 53-55) **Title tr.:** Barometric height calculation in A. Wegener's German Greenland Expedition; surface form of the inland ice and of the rock bottom.

"Firn temperatures varying from -28.5° to -19° C. at different locations were obtained from annual temperature variation data. A dependence of the firn temperatures on the altitude only and not on the distance from the ice margins is indicated. Seismic reflexion measurements yielded a firn thickness of 350 m. at the center of the icecap. A firn temperature of -18° C. at a depth of 150 m. was determined from the temperature dependency of the elastic wave velocities in ice. The temperature distribution observed in the inland ice above the melting layer is attributed exclusively to internal heat sources such as friction. The elastic constants and the plasticity of ice showed a dependency on the temperature."—SIPRE.

**Copy seen:** DLC.

**20922. BROCKAMP, BERNHARD, 1902- .** Nachtrag zu den wissenschaftlichen Ergebnissen der Deutschen Grönlandexpedition Alfred Wegener. (Neues Jahrbuch für Mineralogie, Geologie und Paläontologie. Abhandlungen, 1951. no. 93, p. 177-232, incl. tables, graphs, maps, diagrs.) **Title tr.:** Supplement to the

scientific results of the German Greenland Expedition Alfred Wegener.

"Atmospheric pressure and temperature values obtained between the coast and center of the icecap were used to calculate barometric altitude. The altitude of the center was found to be 3033 m. The firm temperatures are shown to depend only on the altitude and not on the distance from the margin. A temperature decrease of approximately 0.8/degree between 65° and 75° N. lat. is indicated. Reflexion measurements show the firm thickness to vary from approximately 50 m. at the 42 km. mark to 350 m. at the center. The ice temperature at a depth of 150 m. was calculated to be -18° C. using the velocities of elastic waves in glacier ice. The elastic constants and the plasticity of ice show a dependency on the temperature. The temperature distribution observed above the melting layer is attributed exclusively to internal thermal sources (friction)." — SIPRE. Bibliography (53 items).

**Copy seen:** DLC.

**20923. BROCKAMP, BERNHARD, 1902- .** Zur Frage der Vereisungszentren. (Neues Jahrbuch für Mineralogie, Geologie und Palaeontologie, Monatshefte, May 1952. no. 5, p. 193-202, incl. tables) **Title tr.:** On the question of inland ice centers.

"The relationship between the location of inland ice centers and the geothermal conditions of the bedrock is examined geophysically. Evidence was obtained from observation data of thermal conditions in inland ice in Greenland. Results indicate that the ice thickness depends on the magnitude of the thermal flow from below the bedrock. Areas with small thermal flow and large values of geothermal depths, such as old massifs, favor the accumulation of inland ice." — SIPRE.

**Copy seen:** DLC.

**20924. BRODSKIĬ, K. A.** Veslonogie raskhi Calanoida Dal'nevostochnykh morei SSSR i pol'arnogo basseina. Moskva-Leningrad, Izd-vo Akad. nauk SSSR, 1950. 441 p. front., illus. (306 fig.) (In: Akademiia nauk SSSR. Zoologicheskii institut. Opredeliteli po faune SSSR, no. 35) **Title tr.:** Calanoida of the Far Eastern seas of the U.S.S.R. and the arctic seas.

**Contains** (in the general part) a systematic index of the species, characteristics of Copepoda, data on morphology,

anatomy, biology, vertical distribution and migration, geographic distribution, the rôle of Calanoida in the sea and their economic importance, classification and phylogeny, techniques of catching and preparation of specimens for study, region of the work (see fig. 17, p. 70), bibliography (124 items), p. 71-75. In the systematic part (p. 78-441) are keys for the determination of 22 marine families, genera, and species of the crustacean suborder Calanoida, and enumeration of all species (with descriptions of 70 new ones) native to arctic seas from Novaya Zemlya to the Bering Strait, Bering Sea, Okhotsk Sea, Aleutian waters and Gulf of Alaska, with descriptive notes, synonymy, dimensions, color and data on geographic distribution, ecology and economic importance; index of zoological names, p. 435-41.

**Copy seen:** MH-Z.

**BROEDEL, CARL HUNTINGTON, 1908- .** see Espenshade, G. H., & C. H. Broedel. Annotated bibliography & index map of sulfur & pyrite deposits. 1951. No. 21715.

**20925. BROKAW, RADFORD, and K. E. PENROD.** Bromsulphalein removal rates during hypothermia in the dog. (American journal of physiology, Nov. 1949. v. 159, p. 365-68)

**Contains** a report on dogs injected with bromsulphalein and made hypothermic down to a rectal temperature of 35° and 30° C. Both cases showed a marked retention and a slowed removal rate of the dye, the 30° C. group exhibiting greater retention and slower removal. Decreased cellular activity and/or reduced hepatic blood flow may be responsible for the retarded removal rate. Bibliography (9 items).

**Copy seen:** DLC.

**20926. BROMMELS, HILMER NATANAEL, 1896- .** Bestimmung der Dielektrizitätskonstante und des elektrischen Leitungsvermögens des Eises. Helsingfors, 1922. 5 p., incl. illus., 2 tables. (Finska vetenskaps-societeten. Commentationes physico-mathematicae, 1:19) **Title tr.:** Determination of the dielectric constant and electric conductivity of ice.

**Copy seen:** DLC.

**20927. BRONSHTĖIN, B. A.** O rabote Kamchatskoĭ ėkspeditsii AN SSSR. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1936. No. 17, p. 116-19) **Title tr.:** The Kam-

chatka Expedition of the Academy of Sciences of the USSR.

*Contains a general account of the expedition of the Far Eastern Branch of the Academy of Sciences for complex study of Kamchatka Peninsula, including the vegetation, soils, agriculture, forest resources, geology (with map) and vulcanology; the results of the work in 1935 are described and plans for 1936 discussed briefly.* **Copy seen:** MH-A.

**BRONSHTEIN, IŮ. I.**, *see* Waxell, S. L. Vtoraiâ Kamchatskaia êksped. Vitusa Beringa. 1940. No. 27281.

**20928. BRONSON, Mrs. RUTH MUSK-RAT.** Our national honor and the Indians of Alaska. (American Indian, 1947. v. 4, no. 2, p. 14-18).

*Contains protest against bills (HJR205 passed, and SJR118 pending in July 1947) permitting sale of timber from Indian lands in Southeast Alaska "without just and due compensation." The paper is based on observations of the author, a Cherokee Indian, during her two trips to Alaska as executive secretary of the National Congress of American Indians. Comment is made on the rich natural resources and high culture of Haida and Tlingit Indians in former times and their despoliation by white settlers and federal government agencies.*

**Copy seen:** DLC.

**BROOKE, F. R.**, *see* Simpson, C. J. W. British N. Greenland expd. 1951. 1952. No. 26213.

**20929. BROOKS, CHARLES ERNEST PELHAM.** Climatic fluctuations and the circulation of the atmosphere. (Weather, Mar. 1950. v. 5, no. 3, p. 113-19, 2 figs., 2 photos.)

*"Changes of climate in North Atlantic region since 7th century are related to changes in atmospheric circulation, glaciers advancing during periods of weak circulation and retreating during strong circulation. These are two stable persistent types maintained by ice conditions in Arctic Ocean; intermediate stages are transitory. The suggestion is made that the cause of these climatic perturbations is purely terrestrial."*—*Meteorological abstracts and bibliography*, May 1950, v. 1, no. 5, p. 299. Includes bibliography (4 items).

**Copy seen:** DWB; MH-BH.

**20930. BROOKS, JAMES W.** A preliminary progress report on Pacific wal-

rus investigations. Fairbanks, University of Alaska, 1952. 16 p. tables. Mimeographed.

*Contains account of a study made in the Bering Straits during May and June, and in the Wainwright-Point Barrow region during July and Aug. 1952. It includes sections on classification and distribution; morphometry, senses and dentition; economic value (with table of takes for 1952), and numbers; breeding and the young; food; migrations; losses through diseases, predation, hunting, etc.; productivity; management and controls; etc. Bibliography (6 items).*

**Copy seen:** Ca:MAI.

**BROSGÉ, WILLIAM P.**, *see* Dutro, J. T., & others. Facies Carboniferous rocks N. Alaska (abstract). 1951. No. 21586.

**20931. BROTHERUS, VIKTOR FERDINAND, 1849-1929.** Pflanzenphänologische Beobachtungen in Finland 1903. (Bidrag till kännedom af Finlands natur och folk, 1907. Häfte 64, p. 141-71 (tables)) **Title tr.:** Plant phenological observations in Finland, 1903.

Similar to report for 1895 by Kairamo, q. v., who initiated this series, and those of M. Reuter, q. v., who completed and carried it on. **Copy seen:** DLC.

**20932. BROTHERUS, VIKTOR FERDINAND, 1849-1929.** Pflanzenphänologische Beobachtungen in Finland 1904. (Bidrag till kännedom af Finlands natur och folk, 1907. Häfte 64, p. 289-317 (tables)) **Title tr.:** Plant phenological observations in Finland, 1904.

Similar to reports for previous years published in this journal (see item above).

**Copy seen:** DLC.

**20933. BROTHERUS, VIKTOR FERDINAND, 1849-1929.** Pflanzenphänologische Beobachtungen in Finland 1905. (Bidrag till kännedom af Finlands natur och folk, 1907. Häfte 64, p. 429-57, (tables)) **Title tr.:** Plant phenological observations in Finland, 1905.

Similar to previous years' reports published in this journal.

**Copy seen:** DLC.

**20934. BROTHERUS, VIKTOR FERDINAND, 1849-1929.** Pflanzenphänologische Beobachtungen in Finland 1906. (Bidrag till kännedom af Finlands natur och folk, 1907. Häfte 66, p. 241-69 (tables)) **Title tr.:** Plant phenological observations in Finland, 1906.

Similar to earlier years' reports on this subject in this journal.

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**20935. BROTHERUS, VIKTOR FERDINAND, 1849-1929.** Pflanzenphänologische Beobachtungen in Finland 1907. Helsingfors, 1911. 44 p. (tables). (Bidrag till kännedom af Finlands natur och folk. Häfte 71, no. 1) *Title tr.:* Plant phenological observations in Finland 1907.

Similar to previous years' reports published in this journal.

*Copy seen:* DLC.

**20936. BROTHERUS, VIKTOR FERDINAND, 1849-1929.** Pflanzenphänologische Beobachtungen in Finland 1908. Helsingfors, 1914. 38 p. (tables). (Bidrag till kännedom af Finlands natur och folk. Häfte 76, no. 2) *Title tr.:* Plant phenological observations in Finland 1908.

Similar to previous years' reports published in this journal.

*Copy seen:* DLC.

**20937. BROTHERUS, VIKTOR FERDINAND, 1849-1929.** Pflanzenphänologische Beobachtungen in Finland 1909. Helsingfors, 1914. 37 p. (tables). (Bidrag till kännedom af Finlands natur och folk. Häfte 76, no. 3) *Title tr.:* Plant phenological observations in Finland 1909.

Similar in scope and character to earlier years' reports published in this journal.

*Copy seen:* DLC.

**20938. BROTHERUS, VIKTOR FERDINAND, 1849-1929.** Pflanzenphänologische Beobachtungen in Finland 1910. Helsingfors, 1919. 44 p. (tables). (Bidrag till kännedom af Finlands natur och folk. Häfte 77, no. 6) *Title tr.:* Plant phenological observations in Finland 1910.

Report similar to those for previous years in this journal. *Copy seen:* DLC.

**20939. BROTHERUS, VIKTOR FERDINAND, 1849-1929.** Pflanzenphänologische Beobachtungen in Finland 1911. Helsingfors, 1919. 35 p. (tables). (Bidrag till kännedom af Finlands natur och folk. Häfte 77, no. 7) *Title tr.:* Plant phenological observations in Finland 1911.

Report similar to those for earlier years published in this journal.

*Copy seen:* DSI-M.

**20940. BROTHERUS, VIKTOR FERDINAND, 1849-1929.** Pflanzenphänologische Beobachtungen in Finland 1913. Helsingfors, 1920. 30 p. (tables). (Bidrag till kännedom af Finlands natur och folk. Häfte 78, no. 5) *Title tr.:* Plant phenological observations in Finland 1913.

Similar to earlier years' reports in this journal.

*Copy seen:* DSI-M.

**20941. BROTHERUS, VIKTOR FERDINAND, 1849-1929.** Pflanzenphänologische Beobachtungen in Finland 1914. Helsingfors, 1921. 33 p. (tables). (Bidrag till kännedom af Finlands natur och folk. Häfte 80, no. 1) *Title tr.:* Plant phenological observations in Finland during 1914.

Report similar to those for earlier years published under the same title in this journal.

*Copy seen:* DLC.

**20942. BROTHERUS, VIKTOR FERDINAND, 1849-1929.** Pflanzenphänologische Beobachtungen in Finland 1915. Helsingfors, 1921. 32 p. (tables). (Bidrag till kännedom af Finlands natur och folk. Häfte 80, no. 2) *Title tr.:* Plant phenological observations in Finland, 1915.

Report similar to those for earlier years.

*Copy seen:* DLC.

**20943. BROTHERUS, VIKTOR FERDINAND, 1849-1929.** Pflanzenphänologische Beobachtungen in Finland 1916. Helsingfors, 1925. 30 p. (tables). (Bidrag till kännedom af Finlands natur och folk. Häfte 80, no. 4) *Title tr.:* Plant phenological observations in Finland, 1916.

Report similar to those for earlier years.

*Copy seen:* DLC.

**20944. BROTHERUS, VIKTOR FERDINAND, 1849-1929.** Pflanzenphänologische Beobachtungen in Finland 1917. Helsingfors, 1925. 27 p. (tables). (Bidrag till kännedom af Finlands natur och folk. Häfte 80, no. 5) *Title tr.:* Plant phenological observations in Finland, 1917.

Continuation of similar reports in same journal. Subsequent years were reported by M. Reiter, q. v.

*Copy seen:* DLC.

**20945. BROŤSKAĬA, V. A.** Mikrobentos litorali Belogo morĭa. (Vsesoĭuznoe gidrobiologicheskoe obshechestvo. Trudy, 1951. t. 3, p. 179-93, illus.)

**Title tr.:** Microbenthos of the littoral zone of the White Sea.

Contains results of a study carried out by the author on some White Sea islands in 1946-48: notes on the methods and material, data on its microbenthos content (Infusoria, Turbellaria, Nematoda, etc.), adaptability of microorganisms to the environmental conditions, population density of the various bottom layers; quantitative distribution of microbenthos on the littoral and its rôle in the general food régime of that zone.

**Copy seen:** MH-Z.

**BROŤSKAĬA, V. A.,** see also Zenkevich, L. A., & V. A. Brofskaĭa. Materialy po èkologii bentosa Barentsova morĭa. 1937. No. 27560.

**20946. BROUILLETTE, BENOIT, 1904-** . L'expansion minière vers le nord de la province de Québec. (Annales de géographie, jan.-fév. 1950. Année 59, p. 38-43, map). **Title tr.:** The northward expansion of mining in Quebec.

Description of the geologic structure and relief of the new iron ore region on the Labrador-Quebec boundary (about 55° N. 67° W.), its exploration, prospecting and claims, and the future plans for its development. **Copy seen:** DLC.

**20947. BROWN, ANTHONY WILLIAM ALDRIDGE, 1911-** , and others. Control of adult mosquitoes and black flies by DDT sprays applied from aircraft. (Mosquito news, June 1951. v. 11, no. 2, p. 75-84, illus., tables, map, diagr.) Other authors: R. P. Thomson, C. R. Twinn and L. K. Cutkomp.

Contains a report on a large-scale experiment carried out (by the Canadian Dept. of Agriculture in cooperation with the Air Force on behalf of the Defence Research Board) on an area of 18.7 square miles at Goose Bay, Labrador, in midsummer of 1950. The aim was to ascertain the effect of a single aerial spraying on adult mosquitoes, before they attain maximal numbers. The effect on adult black flies was also observed. Data on technique of application, location of the area (53°22' N. 60°08' W.), etc., are also included.

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**BROWN, ANTHONY WILLIAM ALDRIDGE, 1911-** , see also Twinn, C. R., & others. Area control of mosquitoes by aircraft in subarctic Canada. 1950. No. 26866.

**20948. BROWN, CLAUDE V.** Aids to forecasting Juneau district. [Juneau, Alaska, U. S. Weather Bureau] Aug. 1950. 8 leaves, mimeographed.

"Describes various synoptic situations, fronts, etc., conditions giving rise to precipitation or fog, peculiarities of wind, temperature effects and practical airways forecasting."—*Meteorological abstracts and bibliography*, July 1951. v. 2, no. 7, p. 556. **Copy seen:** DWB.

**20949. BROWN, DONALD W.** A tour in Swedish Lapland. (American alpine journal, 1937. v. 3, p. 47-56, 2 plates)

Account of a walking and climbing trip, noting accommodations supplied by the Svenska Turistföreningen, the charm of the Lapland countryside, and the nature of the terrain.

**Copy seen:** DGS; NNA.

**20950. BROWN, ELLEN, and E. M. LANDIS.** Effect of local cooling on fluid movement, effective osmotic pressure and capillary permeability in frog's mesentery. (American journal of physiology, May 1947. v. 149, p. 302-315, 3 fig.)

Contains a report on an investigation which demonstrated that no capillary injury nor leakage of protein appeared until after the tissue has been frozen; that a capillary stasis developed as soon as blood flow commenced after thawing; that local reduction of tissue temperature to between +2° and -2° C. decreased the filtration constant of the capillary wall by 73 percent and increased the effective osmotic pressure within the capillaries by at least 31 percent. Bibliography (33 items). **Copy seen:** DLC.

**20951. BROWN, ELLEN, and others.** The effect of local cooling on the filtration and absorption of fluid in the human forearm. (Journal of clinical investigation, Sept. 1947. v. 26, p. 1031-42, 4 fig.) Other authors: C. S. Wise and E. O. Wheeler.

Contains an account of investigations made with the pressure plethysmograph, on the changes in volume of extravascular fluid in the forearm during exposure to a temperature range of 44.5° to 4.5° C. Moderate cooling was found to increase the extravascular volume of the forearm even when venous pressure was normal; decreased the rate of filtration produced by a given increase of venous pressure; and, decreased the rate at which extravascular fluid was reabsorbed. (Bibliography (17 items)). **Copy seen:** DLC.

**20952. BROWN, I. C.** Circular structures in the arctic islands. (American journal of science, Nov. 1951. v. 249, p. 785-94, illus., incl. map, 4 plates)

Tentative conclusions concerning the origin of peculiar circular forms noticed on Royal Canadian Air Force air photographs of Melville and Ellef Ringnes Islands, point to intrusions of igneous rock in the form of ring dykes and stocks or laccoliths into flat-lying sedimentary strata. **Copy seen:** DGS; DSI-M.

**20953. BROWN, I. C.** Preliminary map Christie Bay, Northwest Territories. (Descriptive notes). Ottawa, 1950. p. 1, 8 numb. 1, fold. map. (Canada. Geological Survey. Paper 50-21)

Notes on the physical features, the Yellowknife and Great Slave sedimentary and volcanic rock groups and the Et-then sedimentary rocks, also on the possible mineral deposits of the area 62°-63° N. 110°-112° W. at the eastern end of Great Slave Lake. Preliminary map 50-21A (scale 1 inch: 2 miles) includes McLeod and Christie Bays, Stark, McDonald, and other lakes. **Copy seen:** DGS.

**20954. BROWN, I. C.** Preliminary map Reliance, Northwest Territories. (Descriptive notes). Ottawa, 1950. p. 1, 8 numb. 1. fold. map. (Canada. Geological Survey. Paper 50-15)

Notes on the physical features, general and economic geology of the area 62°-63° N. 108°-110° W., east of the eastern arm of Great Slave Lake. It is characterized by two major unconformities which divide the formations into three main groups: the Yellowknife, Great Slave and Et-then groups, and by the Monacho group of sedimentary rocks. Preliminary map 50-15A, scale 1 inch: 2 miles. **Copy seen:** DGS.

**20955. BROWN, MALCOLM, 1916-**, and others. Parasitic infections in the Eskimos at Igloodik, N. W. T. (Canadian journal of public health, Dec. 1950. v. 41, no. 12, p. 508-512, tables)

Other authors: J. E. Green, T. J. Boag and E. Kuitunen-Ekbaum.

Contains a report of an examination of 100 Eskimos, made in August 1949 by the Queens University Arctic Expedition with the support of the Canadian Dept. of National Health and Welfare, and Defence Research Board. A high incidence of infection with *Enterobius vermicularis* was found in mature persons, with none in children below the age of five.

In about 30 percent of cases, ova of *Diphyllotritium* species were found. *Entamoeba coli* was found in 8 specimens, out of 97 subjects examined. Data on several less frequent parasites, as well as on lice and scabies incidence, are included. Bibliography (3 items).

**Copy seen:** DSG.

**20956. BROWN, MALCOLM, 1916-**. Queen's University Expedition to Southampton Island, 1948. (Arctic circular, Nov. 1948. v. 1, no. 7, p. 81-82)

Contains a report on the work of the 1948 party led by Dr. L. B. Cronk, continuing the study begun in 1947 of morbidity rates and nutritional status among the Eskimos of the Island. The survey was focused on chest diseases and parasitic intestinal infections, especially (in 1948) trichiniasis. Studies were also continued on vitamin deficiencies and a curious, apparently non-pathological enlargement of the liver. The work was summarized in *Polar record*, July 1950, v. 5, no. 40, p. 609-610.

**Copy seen:** DLC.

**20957. BROWN, WILLIAM L.** A few ants from the Mackenzie River delta. (Entomological news, Apr. 1949. v. 60, p. 99)

Notice of four species or subspecies collected by Dr. Marie Hammer in 1948.

**Copy seen:** DSI-M.

**20958. BROWNE, RALPH.** The Cordova district; a comprehensive survey of business and industrial opportunities in Cordova and adjacent Controller Bay, Prince William Sound and Copper River Valley regions through greater utilization of mineral, forest, fishery, water, and recreational resources. Juneau, Alaska Development Board, Jan. 1951. iv, 81 leaves. Mimeographed.

Contains information on possibilities in development of hydro-electric power, mining, fisheries and forests; climate; Cordova City: its population, housing and utilities; education, health, business, communications, etc.; mining: copper, lead-zinc, antimony and other metals; oil, gas, coal; forestry, fisheries and agriculture; rivers; transportation by air, sea and highway; recreation: mountains, glaciers, lakes, hunting, etc.

**Copy seen:** DLC.

**20959. BROWNE, RALPH.** The Sitka district; a comprehensive survey of business and industrial opportunities in Sitka, Alaska, and adjacent regions on Baranof,

Kruzof, Chickagof and Yakobi Islands, through greater utilization of mineral, forestry, fishery, water and recreational resources. Juneau, Alaska Development Board, December 1950. iv, 81 leaves. Mimeographed.

*Contains* general information on this district of Southeast Alaska: its location, physical features, fauna, etc.; description the city of Sitka: its population, housing and utilities, education, health; business and industry; harbor and communications; government, etc.; mining (nickel, copper, chromite, gold; non-metallic minerals); forestry, agriculture and fisheries; lakes and rivers, including potential hydro-electric power plants; transportation (by air, sea and highway); recreation: mountains, forests, lakes, coastal waterways, hot springs, Sitka National Monument, etc.

*Copy seen:* DLC.

**20960. BROWNE, RALPH.** Taiya: kilowatts for new industry. (Alaskan, Fall 1949. v. 2, no. 3, p. 12-14)

Discussion of a far-reaching power project now under consideration, using the Taiya River, Southeast Alaska.

*Copy seen:* DI.

**20961. BRUCE, NILS IVAN, 1883- .** Bidrag till kännedom om *Cryptophagus*-arternas utbredning i Sverige, Norge, Finland och Danmark. (Entomologisk tidskrift, 1934. Årg. 55, häft. 2, p. 174-80) *Title tr.:* Contributions to the knowledge of distribution of *Cryptophagus* species in Sweden, Norway, Finland and Denmark.

Includes 18 species native to northern regions of those countries.

*Copy seen:* MH-Z.

**20962. BRUCE, NILS IVAN, 1883- .** Bidrag till kännedom om svenska coleopteras geografiska utbredning samt några för Sverige nya samt sällsyntare arter. (Entomologisk tidskrift, 1931. Årg. 52, häft. 3-4, p. 189-99) *Title tr.:* A contribution to the knowledge of the distribution of Swedish Coleoptera with some rare or new to the fauna of Sweden species.

*Contains* a list of about 250 Swedish beetles with localities and occasional critical notes; includes at least 20 coleopters native to Karesuando region, Swedish Lapland, and some rare or new to the fauna of Sweden species. Supplementary data was published as the author's *Ytterligare bidrag*, 1938, q. v.

*Copy seen:* MH-Z.

**20963. BRUCE, NILS IVAN, 1883- .** *Cryptophagus validus* Kraatz, muss für *Cr. lapponicus* weichen. (Entomologisk tidskrift, 1933. Årg. 54, häft. 2, p. 133-37, illus.) *Title tr.:* *Cryptophagus validus* Kraatz should be considered as *Cr. lapponicus*.

*Contains* a critical taxonomic study of two northern beetles, *Cryptophagus validus* and *Cr. lapponicus*, recognized by the author as identical and the first becoming a synonym of the latter.

*Copy seen:* MH-Z.

**20964. BRUCE, NILS IVAN, 1883- .** En entomologisk forskningsresa till Sveriges nordligaste hörn. (Entomologisk tidskrift, 1938. Årg. 59, häft. 1-2, p. 55-66, illus.) *Title tr.:* An entomological exploring trip to the northernmost corner of Sweden.

*Contains* a general account of the author's entomological trip to the Karesuando - Torneträsk - Treriksrosst region of the northern Swedish Lapland, with brief data on its physical geography, climate and entomological fauna and a systematic list of about 500 beetles in 39 families.

*Copy seen:* MH-Z.

**20965. BRUCE, NILS IVAN, 1883- .** Några data från insamlingsresor för Riksmuseum jämte förteckning över nyfynd för land och landskap. (Entomologisk tidskrift, 1944. Årg. 65, häft. 1-2, p. 9-28) *Title tr.:* Some data on the collection of the Swedish State Museum with a list of the species new to the fauna of Swedish regions.

*Contains* critical notes on 22 beetles from the Coleoptera collection in the Swedish State Museum at Stockholm, and a systematic list of about 300 coleopters with new localities in Sweden, compiled with the help of various specialists. Includes some species native to Swedish Lapland.

*Copy seen:* MH-Z.

**20966. BRUCE, NILS IVAN, 1883- .** The Scandinavian species of the genus *Orthoperus* Steph. (Coleoptera). With a discussion on some species occurring outside Scandinavia and a description of a new genus. Lund, Entomologiska sällskapet, 1948. 34, 2 p. plates 1-4. (Opuscula entomologica. Supplementum 9)

*Contains* a critical study of Scandinavian species of coleopterous genus *Orthoperus*, with introductory remarks, data

on the type specimens, discussion of material, secondary sexual characters and ecology, determination keys and descriptions of six Scandinavian species, including *O. punctatus*, *O. brunneipes* and *O. atomus* native to northern Scandinavia. In appendix, p. 32-34, is a discussion of material received from Helsingfors University (Hellén), including a collection of B. Poppius from the upper Lena River region; genus *Sahlbergianus* and *S. inexpectatus*, collected by J. R. Sahlberg in Ephesus, are described as new to science.

**Copy seen:** MH-Z.

**20967. BRUCE, NILS IVAN, 1883- .** Studien über die Coleopterengattung *Cryptophagus*. (Entomologisk tidskrift, 1934. Årg. 55, häft. 2, p. 163-73, illus.) **Title tr.:** Studies of the Coleoptera genus *Cryptophagus*.

Contains critical taxonomic studies of three species of coleopterous genus *Cryptophagus*, including *Cr. beringensis*, native to Swedish Lapland, and recognized by the author as a valid species, not a synonym of *Cr. lapponicus*.

**Copy seen:** MH-Z.

**20968. BRUCE, NILS IVAN, 1883- .** Ytterligare bidrag till kännedomen om de svenska coleopteras geografiska utbredning. (Entomologisk tidskrift, 1933. Årg. 54, häft. 2, p. 121-32) **Title tr.:** Further contributions to the knowledge of geographic distribution of Swedish Coleoptera.

Contains a systematic list of about 170 species of Swedish Coleoptera with localities, including at least thirty native to Swedish Lapland and three new to the fauna of Sweden; *Stenus receptus* found in 1931 in Karesuando, Lapland is a new species. This paper supplements the author's *Bidrag till kännedomen om svenska coleopteras . . . utbredning*, 1931, q. v.

**Copy seen:** MH-Z.

**20969. BRUET, EDMOND.** L'Alaska; géographie, exploration, géologie, minéralogie, faune, peuplement, flore, ressources naturelles. Paris, Payot, 1945. 451 p., incl. tables., illus. (incl. 15 maps) 8 plates, 13 numb. double maps. (Bibliothèque géographique) **Title tr.:** Alaska geography, exploration, geology, mineralogy, fauna, peoples, flora, natural resources.

Chapters on (1) physical geography of regions and features, including glaciers, volcanoes, etc., p. 23-114; (2) history of exploration, p. 115-27; (3) geology

(general and regional) and geomorphology, p. 128-82; (4) life zones including tundra, p. 183-92; (5) fauna, a distributional study of principal mammals and birds, p. 193-217; (6) tribes and cultures of Indians and Eskimos, p. 218-87; (7) theories and schools of thought on original settlement, migration routes, etc., of the aborigines, p. 288-311; (8) plants in the forest zone, forest trees, and reservations, p. 312-25; (9) mineral, fisheries, fur, and agricultural resources, transportation and tourists, p. 326-406. General conclusions, statistics on population, places and production, and a bibliography (353 items incl. maps).

**Copy seen:** DLC.

**20970. BRUET, EDMOND.** Les plages marines anciennes des côtes de l'Alaska et des îles avoisinantes, de la Mer de Behring et de l'Océan Arctique; leur rapport avec celles des côtes qui bordent la Baie et le Détroit d'Hudson. (Société Géologique de France. Compte rendu, déc. 21, 1942. p. 203-204) **Title tr.:** Ancient marine beaches of the Alaskan coasts and of the adjacent islands of Bering Sea and the Arctic Ocean; their relationship to the coasts of Hudson Bay and Strait.

Note on evidence in the regions mentioned, of uplift following a more ancient subsidence, with recent subsidence of a local nature in both northern Alaska and southern Hudson Bay region.

**Copy seen:** DGS.

**20971. BRUEVICH, S. V.** Oxidation-reduction potential and the pH of sediments of the Barentz and Kara Seas. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1938. nouv. ser., v. 19, no. 8, p. 637-40, map)

Examination of the brown sediments which probably cover the greater part of the great depths of the Arctic Basin.

**Copy seen:** DLC.

**20972. BRUEVICH, S. V.** Skorost' obrazovaniia donnykh otlozhenii v mirovom okeane. (Akademiia nauk SSSR. Institut okeanologii. Trudy 1949. t. 3, p. 90-118, tables) **Title tr.:** The rate of formation of bottom deposits in the world ocean.

Contains sections on the history and present status of the problem; rate of sedimentation in mediterranean and epicontinental seas, including the arctic sea; sedimentation in the "world-ocean" calculated from dissolved run-off from the

continents and from the composition of pelagic sediments; the last section includes data on the Norwegian and Barents Seas. Bibliography (about 60 items). **Copy seen:** DLC.

**BRUEVICH, S. V.,** *see also* Lobza, P. G. Sravnitel'nye rezul'taty. 1945. No. 23967.

**BRUJEVICZ, S. W.,** *see* Bruevich, S. V.

**20973. BRUMSHTEIN, V. I.** Poteri vlagi chelovekom v pokoe pri razlichnoi temperature vozdukh. (Gigiena i sanitariia, Dec. 1950, no. 12, p. 12-18, 2 fig., 5 tables) **Title tr.:** Loss of moisture at different temperatures in persons at rest.

*Contains* a study on two men and two women exposed to temperatures of 5.3° to 30.6° C., and a varying relative humidity. The loss of moisture was lower in the women than in the men under similar conditions; a gradual decrease of evaporation up to a temperature of 15°-18° C. was noticed, followed by an increase at a further rise of the air temperature (up to 32° C.); the more layers of clothing worn, the higher was the loss of moisture. **Copy seen:** DLC.

**20974. BRUN, ESKE, 1904-** . Grønland efter krigen. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 2, p. 5-16, illus.) **Title tr.:** Greenland after the war.

The author (a district governor, and more recently head of the Greenland administration) describes the earlier Greenland community as self-sufficient, dependent on seal-hunting, and he justifies the state monopoly as protection of the native population. But climatic change, increased educational opportunity, development of fishing and farming, and improved living standards have altered the social and economic structure of the community. It is proposed by the district councils that private business should now be allowed, civil rights extended and that a committee should work on these problems. **Copy seen:** DSI-M.

**20975. BRUN, ESKE, 1904-** . Grønland under den anden verdenskrig. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 1, p. 305-318, illus.) **Title tr.:** Greenland during World War II.

The author, one of the district governors in Greenland at the time of Denmark's capitulation, describes the ad-

ministrative measures taken by the Greenlanders to cooperate with the United States and Canada in aid of the motherland; also notes the wartime economy, sledge patrols along northeastern Greenland, and activities in establishing American bases on Greenland.

**Copy seen:** DSI-M.

**20976. BRUN ESKE, 1904-** . Nordøstgrønlands danske slædepatruljetjeneste 1941-45. (Grønlandsposten. Juni 16, 1945. Aarg. 4, p. 133-35) **Title tr.:** Danish sledge patrol in northeast Greenland, 1941-45.

*Note on personnel and activities of stations supported by the United States at Eskimonaes, Ella Island, Scoresby Sound, and Ny Station (OYK, near Eskimonaes) during the years of World War II.*

**Copy seen:** DLC.

**20977. BRUNCHORST, JØRGEN, 1862-** . D. C. Danielssen, en nekrolog. A biographical sketch D. C. Danielssen. (Bergen, Norway Museum. Aarbok, 1893, pub. 1894, p. 1-61, port.)

*Contains* an account of the zoologist Danielssen's life 1815-1894, and his prominent rôle in the determination (with Koren) of the collections of the Norwegian North Atlantic Expedition (text in Norwegian and English); also a bibliography of his publications.

**Copy seen:** MH-Z.

**20978. BRUNCHORST, JØRGEN, 1862-** . Nogle norske skovsygdomme. (Bergen, Norway. Museum. Aarbok, 1892, pub. 1893, nr. 8, p. 1-11, illus., plate) **Title tr.:** Some wood diseases in Norway.

*Contains* the results of the investigation of the causes of diseases of woody plants, carried out by the author in parts of Finnmark (Karasjok and Alten) and Nordland (Rannen and Malselvdaalen) in northern Norway, with descriptions of *Peridermium pini*, *Hypoderma pinicola* n. sp., *Lachnellula chrysophthalma* and *Lachnella pini* n. spl, four fungi causing great damage to the forest of northern Norway. **Copy seen:** MH-Z.

**20979. BRUNDIN, LARS ZAKARIAS, 1907-** . Microdota-Studien. (Col. Staphylinidae). (Entomologisk tidskrift, 1938. Årg. 69, häft. 1-2, p. 8-66, illus., plates 1-13) **Title tr.:** Microdota studies (Col. Staphylinidae).

*Contains* a critical revision ofrove beetles (Staphylinidae) of the subgen.

*Microdota*, with a morphological sketch of the subgenus, a key to the species and descriptions of 39 species (twelve new; three new names), with synonymy, critical notes and data on geographic distribution in Fennoscandia and Europe; includes *Atheta platonoffi* n. sp. (Pettasano region), *A. borealla* n. n. (Sydväranger, Norway and Torne Lappmark, Sweden) and two other species, native to northern Fennoscandia. Includes many illustrations and a bibliography (28 items).  
**Copy seen:** MH-Z.

**20980. BRUNDIN, LARS ZAKARIAS, 1907-** . Monographiae der palaearktischer Arten der *Atheta*-Untergattung *Hygroecia* (Coleoptera, Staphylinidae). (Vienna. Naturhistorisches Museum. Annalen, 1942. Bd. 53, Teil II, p. 129-300, plates 1-40) **Title tr.:** A monograph on the palaearctic species of the subgenus *Hygroecia* of the genus *Atheta*.

Contains a monographic study of all known palaearctic species of beetles of the subgenus *Hygroecia* of the genus *Atheta*, with an historical survey, a morphological sketch, data on larvae and pupae and phylogeny of *Hygroecia* species, tables for the determination of the species and descriptions of 34 palaearctic species (five species and three subspecies described as new), a catalog of palaearctic species (p. 278-80), an annotated list of 14 doubtful species and a bibliography (147 items). Includes some species native to northern regions of Europe and Asia.  
**Copy seen:** MH-Z.

**20981. BRUNDIN, LARS ZAKARIAS, 1907-** . Några för landet nya Coleoptera från Torneträskområdet. (Entomologisk tidskrift, 1930. Årg. 51, häft. 1, p. 48-52) **Title tr.:** Coleoptera from the Torneträsk region new to the fauna of Sweden.

Contains critical notes on ten beetles of Swedish Lapland, new to the fauna of Sweden and previously known mostly from Norway and Finland.

**Copy seen:** MH-Z.

**20982. BRUNDIN, LARS ZAKARIAS, 1907-** . Eine neue *Gnypeta* aus den Torneträskgebiete (Col. Staphylinidae). (Notulae entomologicae, 1929. Årg. 50, häft. 1, p. 14-15, plate) **Title tr.:** A new *Gnypeta* from the Torneträsk region.

Contains a diagnosis of a new rove beetle, *Gnypeta sellmani* n. sp. collected by the author in this region of Torne

Lappmark in northern Sweden, and a comparison with some related species.

**Copy seen:** OU.

**20983. BRUNDIN, LARS ZAKARIAS, 1907-** . Studien über die *Atheta*-Untergattung *Oreostiba* Ganglb. (Col. Staphylinidae). (Entomologisk tidskrift, 1940. Årg. 61, häft. 1-2, p. 56-96; häft. 3-4, p. 97-130, illus., plates 1-18) **Title tr.:** Studies of the *Atheta* subgenus *Oreostiba* Ganglb. (Col. Staphylinidae).

Contains a critical study of the subgenus *Oreostiba* of the beetle genus *Atheta*, with a survey of 18 species, including six distributed in northern Scandinavia (Swedish Lapland), Novaya Zemlya, Kanin Peninsula, Lena River region, Chukotsk Peninsula and Kamchatka. Characteristics of the subgenus, secondary sex characteristics, descriptions of male and female genitalia, a key to the species, enumeration of the species are given and a bibliography (57 items).

**Copy seen:** MH-Z.

**20984. BRUSH, WARREN DAVID, 1881-** . Knowing your trees—Alaska yellow-cedar, *Chamaecyparis nootkatensis*. (American forests, June 1950. v. 56, no. 6, p. 28-29, illus., sketch map)

Description and notes on range of a tree occurring from southeastern Alaska to Oregon.

**Copy seen:** DA; DGS.

**20985. BRUSILOVSKIĬ, I., and N. MARKOVA.** Magnetity Kol'skogo poluostrova. (Karelo-Murmanskii kraĭ, 1933. v. 11, no. 1-2, p. 55-58, illus.) **Title tr.:** Magnetites of the Kola Peninsula.

Contains a brief report on the history of mineralogical exploration on the Kola Peninsula with emphasis on iron ores. The location, estimated amount of deposits and some chemical data on the local magnetites are presented.

**Copy seen:** DLC.

**20986. BRUN, HENRIK.** *Coleophora tractella* Z., ny för Fennoskandiens fauna. (Notulae entomologicae, 1949. v. 29, no. 1-2, p. 63-64) **Title tr.:** *Coleophora tractella* Z. new to the fauna of Fennoscandia.

Contains a brief report of the find of *Coleophora tractella*, near Kilpisjärvi in the Enontekiö region of Finnish Lapland. This small moth was known previously from central Europe.

**Copy seen:** DLC; MH-Z.

**20987. BRUN, HENRIK, and M. von SCHANTZ.** Till kännedomen om *Bren-*

*this improba* Btl. ssp. *improbula* Bryk (Lepid.). (Notulae entomologicae, 1949, pub. 1950. v. 29, no. 3-4, p. 83-89, illus.) **Title tr.:** A contribution to the knowledge of *Brenthis improba* Btl. ssp. *improbula* Bryk.

Contains a critical study of a lepidopter, *Brenthis improba improba*, many specimens of which were collected by the authors in Kilpisjärvi in the Enontekis region of Finnish Lapland in the summer of 1948, with data on habitat, oviposition, host plants and structure of the male genitals; a comparison was made with main species *improba* (two males) from Baffin Island in the Canadian Arctic; five new aberrations are described. Summary in English. **Copy seen:** MH-Z.

**BRUUN, HENRIK**, see also Schantz, M. v., & H. Bruun. Lepidopter. iakttag. Enontekis. 1951. No. 25918.

**BRYAN, JOSEPH T.**, see Hazzard, J. C., & others. Cretaceous rocks. 1950. No. 22472.

**BRYAN, JOSEPH J.**, see also Hazzard, J. C., & others. Geol. Kamishak B. area, Cook Inlet, Alaska. 1950. No. 22473.

**20988. BRYAN, KIRK, 1888-1950.** The erroneous use of *tjaele* as the equivalent of perennially frozen ground. (Journal of geology, Jan. 1951. v. 59, p. 69-71) Remarks on use of a Scandinavian term for frozen ground, to which must be added *perenne* for the term to connote permafrost.

"Tjaele is suggested as the term referring to the environs of frozen ground. Pergelisol is suggested as a replacement for the term permafrost which is considered inadequate."—SIPRE.

**Copy seen:** DGS; DLC.

**BRYANS, A.**, see Kark, R. M., & others. Observ. mobile arctic force. Health. 1948. No. 23138.

**BRYHN, N.**, see Steere, W. C. Bryophyta III. *Funaria polaris*. 1949. No. 26405.

**20989. BRYK, FELIX, 1882- , and F. NORDSTRÖM.** Bibliographische und ikonographische Zusätze zu Frithiof Nordström & Einar Wahlgren "Svenska fjärilar," unter der Redaktion von Albert Tullgren, mit 50 Tafeln von David Ljungdahl. I Theil. (Entomologisk tidskrift, 1946. Årg. 67, häft. 3, p.

142-44, häft. 4, p. 145-53) **Title tr.:** Bibliographical and iconographic additions to Frithiof Nordström and Einar Wahlgren's *Svenska fjärilar* [Swedish butterflies] edited by Albert Tullgren, with 50 plates by David Ljungdahl. Part I.

Contains supplemental bibliographical and iconographic data to Nordström and Wahlgren's *Svenska fjärilar*, 1935-41, q. v., with additional data on geographic distribution of 160 lepidoptera described in that work, including many species native to Swedish Lapland.

**Copy seen:** MH-Z.

**20990. BRYK, FELIX, 1882- .** Neue Formen von *Eudia pavonia* (L.) aus Schweden (Lep.: Saturniidae). (Entomologisk tidskrift, 1948. Årg. 69, häft. 3, p. 142-44) **Title tr.:** New forms of *Eudia pavonia* (L.) from Sweden.

Contains a description of *Eudia pavonia* (L.) ssp. *lappmarchica* m. (subsp. nova?) found in Karesuando, Swedish Lapland, in 1883.

**Copy seen:** MH-Z.

**20991. BRYK, FELIX, 1882- .** Neue Schmetterlinge aus dem Reichsmuseum in Stockholm, V. (Entomologisk tidskrift, 1941. Årg. 62, häft. 3-4, p. 141-57, illus.) **Title tr.:** New butterflies from the State Museum at Stockholm, V.

Contains descriptions of 21 new species and subspecies of butterflies, including *Diarsia cuprea venata* n. subsp., *Amphitrola svecica itelmena* n. subsp. and *Polia pisi pisella* n. subsp. all collected by R. Malaise in Kamchatka Peninsula.

**Copy seen:** MH-Z.

**20992. BRYK, FELIX, 1882- .** Zum Nomenklaturfrage der schwedischen *Argynnis improba* Btlr. (Entomologisk tidskrift, 1920, pub. 1921. Årg. 41, häft. 2-4, p. 129-32, illus.) **Title tr.:** On nomenclature of Swedish *Argynnis improba* Btlr.

Contains a taxonomic discussion of identity of *Argynnis improba*, occurring in Torneträsk, Swedish Lapland, held by the author to be a different form than North American type species; a new name *A. improba* is proposed.

**Copy seen:** MH-Z.

**20993. BRYN, HALFDAN, 1864-1933.** Menneskerasernes utviklingshistorie. (Ymer, 1922. v. 43, p. 187-213, 314-59, 14 maps and drawings) **Title tr.:** The history of development of the human races.

Contains (on p. 350) brief remarks on "the paleoarctic race", stressing its hyper-brachycephalic skull (index 87 to 88), short stature (150 cm.), yellow-brown color, pointed cheekbones, etc.

**Copy seen:** InU.

**20994. BRYN, HALFDAN, 1864-1933.** Die Menschenvarietäten Norwegens. (Anthropologischer Anzeiger, 1926. Bd. 3, no. 2, p. 161-86, 7 illus., plates, 5 maps) **Title tr.:** The varieties of men in Norway.

Contains analysis of Lapps (Sames) and northern Finns (Quains) in Norway and their cross-relations with the Norwegians. Statistical data, according to the census of 1920, are presented on "pure" and cross-bred Sames and Quains. The author thinks that the number of "pure Sames" (15,885) was estimated too high, and the number of cross-bred Sames (4,850) too low. "Pure" and cross-bred Quains in Norway are indicated as 5,334 and 3,382 respectively.

**Copy seen:** DSI-M; InU.

**20995. BRYN, HALFDAN, 1864-1933.** Norske folketyper, en antropometrisk-somatisk typeundersøkelse av det Norske folk. (Norske videnskabers selskab, Trondhjem. Skrifter, 1933, pub. 1934, nr. 6, p. 1-128) **Title tr.:** Norwegian folk types, an anthropometric-somatological investigation of the types of the Norwegian people.

Contains results of a study based on body measurements of inhabitants (of Norwegian not Lappish or other stock) in 85 counties of Norway (including 15 counties of Nordland, Tromsø and Finnmark provinces, in the North, p. 105-112). Among this Norwegian population, six anthropological types were found; the last or north Norwegian type is hyperbrachycephalic and undersized. It is represented by inhabitants of the region around Tana (70°30' N. 28°20' E.), in Lappmark. This is a partial and posthumous publication of the author's manuscript (all tables, diagrams, etc., are excluded)

**Copy seen:** DLC; MH.

**20996. BUBNOFF, SERGE von, 1888- .** Fennosarmatia; geologische Analyse des europäischen Kerngebietes. Berlin, Akademie-Verlag, 1952. xi, 450 p. illus., maps (part fold.) **Title tr.:** Fennosarmatia; a geological analysis of the European core-area.

Contains an extensive study, based largely on recent sources, of the Russian

Plateau, the Baltic Shield and the Ukrainian (Azov-Podolian) Block, an area considered as geologically the oldest unit of Europe; the Urals though outside this complex, are also dealt with. Consecutive chapters cover the Baltic Shield (p. 2-114), including the Murman, White Sea and Finno-Karelian blocks; Kola and northern Sweden; the Sarmatian Plateau (p. 115-249) including the Pechora valley, Timan mountains, and White Sea area; the Ukrainian (Azov-Podolian) Block (p. 250-342); and the Eurasian borderlands (p. 343-450) including the Urals and Novaya Zemlya. The historical geology (stratigraphy), structure tectonics, etc. as well as mineral resources of each area are described, with bibliography following each chapter.

**Copy seen:** DLC.

**BUBRIKH, D. V.,** see Castrén, M. A. Pamäti M. A. Kastrena. 1927. No. 21135.

**20997. BUCH, HANS ROBERT VIKTOR, 1884- .** *Orthocaulis cavifolius* Buch und S. Arnell, ein für die Wissenschaft neues Lebermoos. (Societas pro fauna et flora fennica. Memoranda, 1949-50, pub. 1951. v. 26, p. 71-78, illus.) **Title tr.:** *Orthocaulis cavifolius* Buch and S. Arnell, a liverwort new to science.

Contains Latin and German diagnoses of a liverwort *Orthocaulis cavifolius*, n. sp., found by S. Arnell in Torne Lappmark, Swedish Lapland in 1944-48 and described by the author.

**Copy seen:** MH-Z.

**20998. BUCH, HANS ROBERT VIKTOR, 1884- .** Die Scapanien Nord-europas und Sibiriens, I. Helsinki, 1922. 21 p., illus. (Finska vetenskaps-societeten.

Commentationes biologicae, I:4) **Title tr.:** The *Scapaniaceae* of northern Europe and Siberia, I.

Contains introduction, outline of materials and methods; organography of the liverworts studied. **Copy seen:** DLC.

**20999. BUCH, HANS ROBERT VIKTOR, 1884- .** Die Scapanien Nord-europas und Sibiriens, II. Systematischer Teil. Helsingfors, 1927. 177 p., illus., fold. map. (Finska vetenskaps-societeten. Commentationes biologicae, 3:1 [misnumbered 4:1 on p. 1-80]) **Title tr.:** The *Scapaniaceae* of northern Europe and Siberia, II. Systematic part.

Over 200 species of this genus of liver-

words are described; based on collections from northern Siberia, Norway, Sweden and Finland. Bibliography (about 175 items).

**Copy seen:** DLC.

**21000. BUCH, HANS ROBERT VIKTOR, 1884-** . *Sphenobolus saccatulus* (Lindb.) K. Mull., *Sph. rigidus* (Lindb.) K. Mull. und *Sph. groenlandicus* (Nus) Steph. (Societas pro fauna et flora fennica. Memoranda, 1949-50, pub. 1951, v. 26, p. 74-78, illus.)

*Contains a comparative critical study of three related species of liverworts, including Sphenobolus groenlandicus (ten specimens collected in Greenland) which is really a species of Lophozia, probably L. alpestris var. major.*

**Copy seen:** MH-Z.

**BUCHANAN, A. R.,** see Irwin, E., & others. Ascorbic acid content adrenal glands rats after cold. 1950. No. 22840.

**21001. BUCHIN, MIKHAIL NIKOLAEVICH, 1900-1949.** Issledovanie treniia smazannykh poverkhnostei pri nizkikh temperaturakh. Moskva, Izd-vo Akademii nauk SSSR, 1951. 56 p., illus., port. **Title tr.:** Study on friction of lubricated surfaces at low temperatures.

This technical monograph deals with the properties and behavior at low temperatures, of lubricated and non-lubricated surfaces; of lubricants with high polymerizing qualities and of ball-bearing machinery.

**Copy seen:** DLC.

**21002. BUDARIN, M.** Vozrozhdenie malykh narodov Obskogo severa. (Sibirskie ogni, 1950. t. 29, no. 2, p. 120-28) **Title tr.:** The renaissance of the small peoples of the northern Ob'.

*Contains discussion of the recent life of Voguls, Ostyaks, and Samoyeds of the Yamal Peninsula; the dying out of these peoples is explained as a result of exploitation by the capitalistic merchants, spread of alcoholism and concentration of wealth (large reindeer herds) in hands of a few "kulaks" (rich owners). This dying out of the natives is said to have stopped since 1924, and progressive collectivization of the reindeer industry since 1930, is claimed to have improved the economic conditions; author notes that education, medical help, etc., has been made accessible to these natives and that ethnological research is going forward, with discovery of national epics, new songs praising Stalin, etc.*

**Copy seen:** DLC.

**21003. BUDZILOVSKIĬ, G. E.** Vnedrenie peredovoi tekhniki i novykh metodov organizatsii zimnego stroitel'stva. (Tori-fianskaia promyshlennost', Nov. 1952. v. 29, no. 11, p. 5-6) **Title tr.:** Introduction of modern techniques and new methods of organization of winter construction.

*Contains information and data on the decline of the amount of building and construction due to the winter cold; with suggestions and directions how to prevent it in digging and laying foundations; building walls and concrete structures, etc.*

**Copy seen:** DLC.

**21004. BÜCHNER, EUG.** Die Abbildungen der nördischen Seekuh (*Rhytina gigas*, Zimm.) mit besonderer Berücksichtigung neu aufgefundenen handschriftlicher Materialien in Seiner Majestät Höchst Eigenen Bibliothek zu Zarskoje Sselo. St.-Petersbourg, 1891. 24 p., plate. (Akademiia nauk SSSR. Mémoires, Sér. 7, t. 38, no. 7) **Title tr.:** The illustrations of the northern sea-cow (*Rhytina gigas*, Zimm.) with special consideration of the newly found manuscripts in His Majesty's own library at Tsarskoye S'elo.

*Contains an analysis and discussion of four existing illustrations of the extinct sea-cow, occasioned by the recent discovery in the Tsar's private library, of Sven Waxell's manuscript describing the second Bering Expedition (1734-43) in which he participated. Büchner comes to the conclusion that the two pictures originally attached to Pallas' work, and those found in the newly discovered manuscript, were all made by Waxell. G. W. Steller, who is credited with the first description of the sea-cow, had no illustration of the animal attached to his account; his illustrations apparently were lost.*

**Copy seen:** DLC.

**21005. BÜDEL, JULIUS.** Das Luftbild im Dienste der Eisforschung und Eiskundung. (Gesellschaft für Erdkunde zu Berlin. Zeitschrift, 1943. p. 311-45, 8 plates, 5 charts on 2 fold. sheets) **Title tr.:** Air photos in ice research and ice reconnaissance.

*Contains discussion of the importance of aerial photography (1) for scouting ice conditions as an aid to shipping; the state of the season's ice, finding leads through ice, etc., and (2) as a contribution to knowledge of types of ice, recognition of state of ice, stages of formation of ice, etc. Author gives full discussion of these*

topics, with mention of the "Baltic ice code" now used for reporting state of ice. Different types of ice as seen from the air are photographically presented. Bibliography (22 journals and 142 items).

**Copy seen:** DLC.

**BÜDEL, JULIUS**, *see also* Deutsches hydrographisches Institut, Hamburg. Atlas d. Eisverhältnisse Nordatlantischen O. u. Nord- u. Südpolargebiete. 1950. No. 21452.

**21006. BÜTTNER, KONRAD, and H. KUHN.** Climates of the German theaters of operation. (*In:* German aviation medicine, World War II, 1950. v. 2, p. 737-56, diagrs., maps, tables)

*Contains* an account of climate during 1939-43 on the North African and eastern and northeastern fronts; the last includes Greenland and Spitsbergen, for which month-by-month reports, chiefly for 1941-43, are given on air temperature, pressure, and movements, precipitation, etc. (p. 746-56).

**Copy seen:** DLC.

**21007. BÜTTNER, KONRAD.** Physical heat balance in man. (*In:* German aviation medicine, World War II, 1950. v. 2, p. 766-91, diagrs.)

*Contains* attempt to show how far knowledge of physics can explain effects of heat and cold on the human body: a fundamental study on physical heat balance between bodies and their surroundings, is followed by a section on physiological heat regulation in man (p. 773-91). The latter includes chapters on measuring skin temperature and humidity, and respiratory temperature; complex magnitudes of climate, water evaporation from the skin; humidity and heat-balance; the temperature of the respiratory air; cold on the extremities (cold air, freezing fast to cold metals). Bibliography (about 50 items).

**Copy seen:** DLC.

**21008. BÜTTNER, KONRAD.** Protective clothing for heat and cold. (*In:* German aviation medicine, World War II, 1950. v. 2, p. 876-86, tables, diagrs.)

*Contains* a report on determinations and measurements made on various kinds of cloth, rubber, leather, asbestos, glass, fabrics, etc., as to their heat conductivity, protection from radiation and radiation transfer, from wind, moisture and humidity. Thickness, weight and design of clothing is discussed, and its effect on human survival in cold water. Bibliography (12 items).

**Copy seen:** DLC.

**21009. BUFFAM, B. S. W., and E. B. GILLANDERS.** The exploration and development of Canadian uranium deposits by Eldorado Mining & Refining (1944), Limited. (Canadian mining and metallurgical bulletin, Oct. 1951. v. 44, p. 678-81; also pub. in Canadian Institute of Mining and Metallurgy. Transactions, 1951. v. 54, p. 434-37)

*Contains* general discussion of methods in prospecting, Geiger surveying, drilling, sampling, and production, with mention of the Port Radium mines, Mackenzie District.

**Copy seen:** DGS.

**21010. BUFFAM, B. S. W., and E. B. GILLANDERS.** The exploration and development of Canadian uranium deposits by Eldorado Mining & Refining (1944) Ltd. (Precambrian, July 1951. v. 24, no. 7, p. 21, 23)

*Contains* information for prospectors and miners on the development of new uranium discoveries, involving prospecting, systematic Geiger survey, geological survey, exploratory drilling, underground development, lateral workings, sampling, production and ore treatment.

**Copy seen:** DGS.

**21011. BUFFAM, B. S. W., and E. B. GILLANDERS.** Uranium deposits in Canada. (Western miner, Sept. 1951. v. 24, no. 9, p. 38-41, illus., map)

*Discussion* of methods of prospecting, Geiger surveying, geological mapping, drilling, underground development and production methods for uranium mining.

**Copy seen:** DGS.

**21012. BUGAEV, V. A. B. L. Dzerdzeevskii.** Tsirkulatsionnye skhemy v troposfere tsentral'noi Arktiki. (Meteorologiya i gidrologiya, 1947. no. 3, p. 84-85)  
**Title tr.:** B. L. Dzerdzeevskii. Circulation patterns in the troposphere of the central Arctic.

"In a review of B. L. Dzerdzeevskii's paper, based on recent data obtained by explorers of the Arctic (mainly from the drifting station "Severniiy Polius"), the author writes that the principle merit of the study consists in including the Arctic in the synoptic routine. The study proved that, contrary to the classical notion, all the circulation and physical patterns of the troposphere of more southern latitudes exist in the Arctic nearly up to the Pole; changes of weather in the Arctic are also connected with changes of air masses and atmospheric disturbances (cyclones and anticyclones).

Notwithstanding his disagreement with some of Dzerdzhevskii's particular opinions, the author considers the publication as a matter of great importance."—*Meteorological abstracts and bibliography*, Sept. 1951. v. 2, no. 9, p. 744. For Dzerdzhevskii's paper see *Arctic Bibliography* No. 4284A. **Copy seen:** DWB.

**21013. BUGGE, AAGE, 1896-** . Den Grønlandske kirke. (*In*: Birket-Smith, K., and others, Grønlands bogen, 1950. v. 2, p. 207-224, illus.) **Title tr.:** The church of Greenland.

*Contains* brief history of missions and church; discussion of the problems inherent in the organization of the church of Greenland; Greenlanders' religious tendencies and parish life in relation to present-day developments. Bibliography (10 items). **Copy seen:** DSI-M.

**21014. BUGGE, AAGE, 1896-** . The native Greenland, a blending of old and new. (*Arctic*, Mar. 1952. v. 5, no. 1, p. 45-53, illus.)

*Contains* an introduction by Trevor Lloyd, on the changes now taking place among Eskimos of Greenland, and on the author's part in education there. Then follows Dean Bugge's presentation of Eskimos' psychology; the "closed" and "open" types among them; their emotional life, fatalism, conservatism, especially in their language, love of nature and children and gaiety; to understand and preserve these positive traits, whilst planning reforms, is the author's plea. This paper is translated from one originally prepared for the Greenland Society (and pub. in its *Aarskrift* 1950, p. 136-44) and modified slightly for a wider public. **Copy seen:** CaMAI; DLC.

**21015. BUĬAKOVICH, N. G.** *Ondatra* na kraĭnem severo-vostoke Soĭūza SSR. (*Zoologicheskii zhurnal*, 1951. t. 30, vyp. 3, p. 279-85, text map) **Title tr.:** *Ondatra* in the far Northeast of the U.S.S.R.

*Contains* a study of acclimitization of the muskrat, *Ondatra zibethica*, introduced into the arctic regions of Siberia in 1938, with data on the ecology of this valuable rodent and its distribution in the basins of Lena, Indigirka and Kolyma Rivers of Yakutia. Economic results of this experiment are reported to be very encouraging.

**Copy seen:** MH-Z.

**21016. BUĬNITSKIĬ, VIKTOR KHAR-LAMPOVICH.** *TSentral'naĭa* Arktika.

*Stenogramma publichnoi lektsii prochi-tannoi v 1949 gody v Leningrade. Leningrad, 1949. 31 p. (Vsesoĭuznoe obshchestvo po rasprostraneniĭu politicheskikh i nauchnykh znaniĭ, Leningradskoe otdelenie) Title tr.:* The central Arctic. Stenograph of a public lecture delivered in Leningrad in 1949.

*Contains* a popular lecture (apparently not based on field work) delivered before a "society for dissemination of political and scientific information". It gives a concise description of the limits and characteristics of the area (climate, day-night relation, etc.); history of its exploration and more important achievements of certain expeditions; present-day knowledge of its oceanography, climatic fluctuations, biology, fisheries and whaling. **Copy seen:** DLC.

**21017. BUKANOV, M. A.** *Pamĭatka strolochniku po rabote v zimnikh uslo-viĭakh.* Izd. 2-e, dopolnennoe i ispravlennoe. Utverzhdena TSentral'nym upravleniem dvizheniĭa MPS. Moskva Gosudarstvennoe transportnoe zheleznodorozhnoe izd-vo, 1946. 23 p. **Title tr.:** A handbook for switchmen working under winter conditions. Second enlarged and revised edition. Approved by the Central Traffic Administration of the Department of Transportation.

Manual of instructions for railroad line-men on maintenance of equipment, tools, etc., under cold weather conditions, care of signal boxes and lines; etc.

**Copy seen:** DLC.

**21018. BULGAKOV, A. I.** *O stroitel'stve promyshlennykh predpriĭatiĭ v uslo-viĭakh vechnoi merzloty v raĭone Anadyrĭa.* (Akademiĭa nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1935. no. 12, p. 81-91, illus.) **Title tr.:** Industrial construction under permanent frost conditions in the Anadyr' district.

*Contains* brief data on the orography and geology of the Anadyr' River region, northeastern Siberia, and a discussion of construction works on permanently frozen ground and factors influencing such works, as climate, moss and snow cover, ground water, etc.

**Copy seen:** MH-Z.

**21019. BULIARD, ROGER.** Inuk. With an introduction by Fulton J. Sheen. New York. Farrar, Straus & Young Inc., 1951. ix, 322 p., map, illus. (from photos.) on lining papers. English version

with some rearrangement of material of *Inuk, au dos de la terre!*, q. v.

Account of the author's life as Catholic missionary among Eskimos of Victoria Island and the Coppermine region of Mackenzie District, since 1934. Describes his life at the mission, travels, hunting, etc., with quotations from his diary. Throughout, emphasis is on the character and customs of Eskimos as individuals and as a people; and on the author's work toward some adaptation of their traditional attitudes, beliefs and customs to standards of the Catholic mission, and white man's law as administered by Royal Canadian Mounted Police. Deals particularly with murder, infanticide, cannibalism, position of women, etc., with some insight into social and economic, but main emphasis on moral (from the missionary viewpoint) factors involved. The missionary's efforts to counteract exploitation of Eskimos by fur traders, is also noted. Reviewed by Jacques Rousseau in *Arctic*, Sept. 1951. v. 4, p. 135-37.

**Copy seen:** DLC.

**21020. BULIARD, ROGER.** *Inuk "Au dos de la terre!"* Collaboration littéraire de Joseph Sachot; desseins, couverture, et cartes d'André Millot. Paris, Éditions Saint-Germain, 1949. 355 p., illus., port. maps (part fold.)

Contains in two parts a description of the Canadian North and an account of the work of the Roman Catholic (Oblates of Mary Immaculate) missions there, particularly that of the author among the Copper Eskimos. Also published in English (with different arrangement of material and without the artist's drawings) as *Inuk*, q. v. Reviewed by Graham Rowley in *Canadian historical review*, June 1952. v. 33, no. 2, p. 177-78.

**Copy seen:** DLC.

**21021. BULYCHEVA, A. I.** Materialy po pitaniyu kambalovykh ryb Vostochnogo Murmana. (Akademiya nauk SSSR. Murmanskaya biologicheskaya stantsiya. Dal'niye Zelentsy. Trudy, 1948, t. 1, p. 261-75, illus., tables) **Title tr.:** Materials on the nutrition of flounders of the eastern Murman.

The feeding habits and food of three species of flounders are studied and analyzed; their mutual relationship regarding food is discussed, and relationship to other species in that regard. Bibliography (32 items).

**Copy seen:** DLC.

**21022. BULYCHEVA, A. I.** Novyi vid Amphipoda iz Barentsova moria. (Akademiya nauk SSSR. Doklady. Novaya seriya, 1951. t. 77, no. 5, p. 925-28) **Title tr.:** A new species of Amphipoda from Barents Sea.

Contains a Russian description of *Protomedea gurbanovae* n. sp., a new amphipod found in the Barents Sea and also known from Chukchi, Bering and Okhotsk Seas, and two other arctic species, *P. fasciata* and *P. grandimana*, related to the new one, with data on their total distribution.

**Copy seen:** DLC; MH-Z.

**21023. BUNAK, V. V.** Defatel'nost' D. N. Anuchina v oblasti antropologii. (Antropologicheskii zhurnal, 1924. t. 13, vyp. 3-4, p. 1-17, port.) **Title tr.:** The activity of Prof. D. N. Anuchin in the field of anthropology.

Contains biographical sketch of the founder of anthropological research in Russia who investigated the Lamuts, Chuvantzy and Chukchis from the anthropological point of view. A list is added of the publications of his ten last years, compiled by N. A. Sinelnikov (p. 17-18). Summary in German.

**Copy seen:** DSI.

**21024. BUNAK, V. V.** Geograficheskoe raspredelenie rosta prizyvnoogo naseleniya SSSR po dannym 1927 g. (Antropologicheskii zhurnal, 1932. No. 2, p. 1-25, map) **Title tr.:** The geographic distribution of bodily height of the male population in the U.S.S.R., based on data of 1927.

Contains systematization by nationalities and districts, of data collected by the central office for statistics, on the height of 21-year-old recruits (map on p. 17). The average height of Karelians is 166 cm., that of Zyryans, 164 cm.

**Copy seen:** DSI.

**21025. BUNGE, ALEKSANDR ALEKSANDROVICH, 1851-1930.** Einige Worte zur Bodeneisfrage. (Vserossiiskoe mineralogicheskoe obschestvo, Leningrad. Zapiski, 1902. Ser. 2, chast' 40, p. 203-209) **Title tr.:** A few words on the question of ground ice.

Discussion of the origin of ground ice and the author's theory of its formation by fresh water penetrating post-Tertiary deposits as opposed to Baron von Toll's theory of its fossil glacier origin. Includes remarks on structural soils and the question of existence of ancient glaciation in

the new Siberian Islands and neighboring area in northern Siberia.

*Copy seen:* DGS.

**21026. BUNKIN, N. A.** Kak predupredit' otmorozheniia. Izdanie 2-e, ispravlennoe. Moskva, Izd-vo TSK VLKSM "Molodaiia gvardiia," 1945. 31 p. *Title tr.:* How to prevent frostbite. Second corrected edition.

Pamphlet for sportsmen explaining how the organism resists cold; how frostbite occurs; how to prevent it and the first aid to be given to victims.

*Copy seen:* DLC.

**21027. BURBIDGE, F. E.** The modification of continental polar air over Hudson Bay. (Royal Meteorological Society, London. Quarterly journal, July 1951. v. 77, p. 365-74, diags.)

Study of the effect of water temperature and ice cover of Hudson Bay on continental air, shows that in Nov.-Dec. the relatively warm water modifies the climate by flux of heat and rapid evaporation, causing extensive cloud and excessive snowfall; and that in July-Aug., the cold water causes subnormal temperatures and frequent formation of stratus cloud, drizzle and fog. Bibliography (6 items). Also abstracted in *Meteorological abstracts and bibliography*, Oct. 1951. v. 2, no. 10, p. 809. *Copy seen:* DLC.

**BURCH, JOSEPH E.,** see Johnson, W. M., & others. Correlation climatol. data Bering Sea & Aleutian I. 1944. No. 23008.

**21028. BURCHILL, DORA ELIZABETH.** Labrador memories. [2d ed. Shepparton? Victoria, 1947] 129 p., plates, ports.

Reminiscences of the author's experiences as Grenfell Mission nurse on the Labrador coast, 1938-39. Includes comment on the people, living and health conditions, work of the mission, Sir Wilfred Grenfell, fishing, dogs, etc.

*Copy seen:* DLC.

**21029. BURG, AMOS.** North Star cruises Alaska's Wild West; gay-hearted Eskimos welcome the annual supply ship to lonely U. S. shores that face Siberia. (National geographic magazine, July 1952. v. 102, no. 1, p. 57-86, illus., incl. col.)

Contains account of author's trip on the Alaska Native Service vessel from Sitka to Barrow, calling at 45 native villages en route. Author describes the

coastal scenery, settlements, activities of Eskimo inhabitants, and remarks on changing aspects of their daily life and status during the last decade, as cash-paid work in local industry, school and health services, white man's housing, food, clothing, etc., break down the traditional culture pattern. Fully illustrated by author's photographs.

*Copy seen:* DLC.

**21030. BURGESS, J. ALLAN.** Esquimaux in the Saguenay. (Primitive man, 1949. v. 22, nos. 1-2, p. 23-32)

Contains 36 extracts from Father de Crespieu's Second Register of Tadoussac covering the period, 1669-1696 (manuscript in Latin in the archives of the Archevêché de Québec). The author is inclined to believe that those "Esquimaux" were a people who, despite some customs akin to those of the Eskimos were, in fact, a people of Algonkian culture, who had enough in common with the Montagnais to penetrate without opposition into Montagnais country (Saguenay region of northeastern Quebec), to live with them in peace, and become absorbed by them.

*Copy seen:* DLC; InU.

**BURGVITS, G. K.,** see Nadson, G. A., & G. K. Burvits. Hefen des nördlichen Eismeer. 1931. No. 24558.

**21031. BURKY, E. L., and M. D. SMILLIE.** Nasopharyngeal flora in health and during respiratory disease in isolated communities in Alabama and Labrador. (Journal of experimental medicine, 1929. v. 50, p. 643-63)

Contains outline of methods, places and groups studied (Alabama, Labrador); discussion of findings; comparison of findings with the results of other investigations; summary. In Alabama an epidemic of common colds, in Labrador sporadic colds and an epidemic of tracheitis were studied. Gram-negative cocci were found in nearly all normal individuals; in pathological conditions there was a suppression of these organisms. Staphylococci were found in small numbers in about half of the normal individuals; in pathological states they disappeared from nearly all individuals affected but were found in increased numbers in a few individuals. Pfeiffer bacilli were absent or few in normal individuals; during the cold epidemic in Alabama and the epidemic of tracheitis in Labrador, an increase in relative num-

bers and in the number of strains recovered was observed. Hemolytic streptococci were rarely found in normals but during the disease prevalence they appeared in a small number of persons. Indifferent streptococci were rare in Alabama but widely distributed in Labrador among healthy and sick individuals. Green streptococci were widely distributed in both health and disease. "Intermediates" were found in moderate numbers in each series of persons studied. Pneumococci were not found in Alabama in normal individuals but markedly increased in incidence during the cold epidemic; in Labrador they are part of the normal throat flora and the strain avirulent. A variety of other organisms were found in small numbers in many healthy and sick individuals.

*Copy seen:* DSG.

**21032. BURNHAM, JOHN BIRD, 1869-1939.** An Alaskan hunt for sheep, bears and caribou. (Outdoor life, May 1924. v. 53, p. 333-37, illus.)

Account of a trip through the western part of Wrangell Mts. at the head of Copper River, and hunting on the north slope of Mt. Sanford. *Copy seen:* DI.

**21033. BURNHAM, JOHN BIRD, 1869-1939.** New hunting grounds. American wildlife, Jan. 1921. v. 10, no. 1, p. 2-3, 8, illus.)

General remarks on big game available to hunters in Alaska and the Yukon.

*Copy seen:* DI.

**21034. BURNHAM, JOHN BIRD, 1869-1939.** Siwashing in Siberia. (American wildlife, July 1922. v. 11, no. 3, p. 6-9, 15, illus.)

Account of a hunting trip on Chukotsk Peninsula in the summer of 1921, with note of the Chukchis, Asiatic Eskimos, weather, etc., also of the scarcity of mountain sheep, object of the writer's hunt.

*Copy seen:* DI.

**BURNS, H. L.,** see Carlson, L. D., & others. Report studies acclimatization winter 1948-49. 1949. No. 21125.

**BURNS, H. L.,** see also Young, A. C., & others. Regional heat loss temp. gradient colorimetry. 1950. No. 27516.

**21035. BUROVA, T. A.** Niobii v khibinskikh i lovozerskikh mineralakh (titano- i tsirkono-silikatakh). (Akademicheskaya nauka SSSR. Kol'skaya baza. Trudy, 1936. vyp. 2, p. 15-37) *Title tr.:* Niobium in

minerals of Khibiny and Lovozero regions (titanium and zirconium silicate).

Results of a chemical study of the two silicate minerals from alkaline massifs of the Khibiny and Lovozero Tundras, with results of chemical analysis, and a bibliography (26 items).

*Copy seen:* DGS.

**21036. BURRILL, MEREDITH FREDERIC, 1902-** Land classification in the Matanuska valley. [Abstract] (Association of American Geographers. Annals, 1942. v. 32, p. 106-107)

The Land Classification Division of the U. S. General Land Office sent a field party into the valley in 1941 as a start toward providing factual information on land use capabilities. Author notes the general situation (61°20'-45' N. 149°-150° W.), highways, birch-spruce associations as dominant, and the windblown mantle which is the principal factor in soil productivity.

*Copy seen:* DGS; DLC.

**21037. BURSKIĬ, PAVEL DMITRIEVICH, and S. M. ROZENOER.** Ot Urala do Velikogo okeana; putevoditel' po Uralu, Sibiri i Dal'nemu Vostoku. Moskva, Izd. O-va izucheniya Urala, Sibiri i Dal'nego Vostoka, 1928. 308 p., illus., fold. maps. *Title tr.:* From the Urals to the Great Ocean; a guidebook through the Urals, Siberia and the Far East.

Contains a general account of the administrative aspects, geography, ethnography and economy of the region as a whole, communications; itinerary over the Urals and adjacent country; Siberian communications and itineraries; Far-Eastern communications and itineraries; Manchuria. Includes Yakut A.S.S.R., Lena basin, arctic seas, etc. Index.

*Copy seen:* DLC.

**21038. BURTON, ALAN CHADBURN, 1904-** The operating characteristics of the human thermoregulatory mechanism. (In: American Institute of Physics. Temperature, its measurement and control in science and industry. New York, Reinhold Pub. Corp., 1941. p. 522-28, 4 fig.)

Contains remarks on the three thermoregulatory mechanisms of man, description and discussion of that operating in the range of "comfortable" temperature. Internal and surface temperatures and temperature maintenance mechanisms, comparisons with control types used in

engineering, blood flow and temperature control, etc., are included in the discussion. Bibliography (14 items).

**Copy seen:** DLC.

**21039. BURTON, ALAN CHADBURN, 1904-** . The range and variability of the blood flow in the human fingers and the vasomotor regulation of body temperature. (American journal of physiology, Oct. 1939. v. 127, no. 3, p. 437-53, 12 fig.)

Contains a study of blood flow in the finger made by an adapted plethysmographic method and expressed in cc./min./100 cc. of tissue. The range of blood flow was found to be 0.5-1.0 cc. as a minimum, up to 80-90 cc./min./100 cc. of tissue; this tremendous range represents the mechanism of temperature regulation by elimination of body heat. An analysis of the fluctuations in flow and their dependence on factors other than temperature, is also presented. Bibliography (28 items). **Copy seen:** DLC.

**21040. BURTON, ALAN CHADBURN, 1904-** , and others. Slow adaptations in the heat exchanges of man to changed climatic conditions. (American journal of physiology, Apr. 1940. v. 129, p. 84-101, diagrs.) Other authors: J. C. Scott, B. McGlone, and H. C. Bazett.

Authors conclude that under cool conditions (1) average caloric intake was significantly greater, (2) foods of higher caloric value per gram, which had a lower equivalent respiratory quotient were chosen, (3) radiation and convection losses decreased as adaptation to cold proceeded. Bibliography (11 items).

**Copy seen:** DLC.

**21041. BURTON, ALAN CHADBURN, 1904-** . A study of the adjustment of peripheral vascular tone to the requirements of the regulation of body temperature. (American journal of physiology, June 1940. v. 129, no. 3, p. 565-77, 8 fig.)

Contains a study of the rhythmic fluctuations of peripheral vascular tone under various conditions of heat loss, in order to determine "how they are modified to maintain an appropriate value for the average peripheral blood flow." Intervals between constrictions at a comfortable environmental temperature averaged 50-60 seconds. With increase in temperature the intervals between constrictions increased. The rhythm of vasoconstriction in a constant tem-

perature water bath was found to be essentially similar to that in air, suggesting that intermittence of tone cannot be due to intermittence of skin temperature. Data on average size of pulsation, amplitudes of fluctuations at given environmental temperatures, etc., are also presented and conclusions drawn. Bibliography (14 items).

**Copy seen:** DLC.

**BURTON, ALAN CHADBURN, 1904-** , see also Gage, A. P., & others. Practical system of units descrip. heat exchange. 1941. No. 22005.

**BURTON, ALAN CHADBURN, 1904-** , see also National Research Council. Subcommittee on Clothing. Clothing test methods. 1945. No. 24577.

**21042. BURTON, MAURICE, 1898-** . Studies on Norwegian sponges, I-II. (Norske videnskabers selskab, Trondhjem, Forhandling, 1931. Bd. 4, nr. 38, p. 136-39, illus.; (II) nr. 39, p. 140-48, illus.)

Contains English descriptions of three new genera and four new species of Norwegian sponges, including *Crella donai* n. sp. found at Røst, Lofoten Islands, and *Siphonocalyptra* (*Auletta*) *elegans* found in northern Norway, locality unknown, previously dredged by the Willem Barents in the arctic sea 1882.

**Copy seen:** MH.

**BUSCHAN, GEORG, ed.**, Illustrierte Völkerkunde, see Byhan, A. Lappen. 1926. No. 21056.

**BUSCHAN, GEORG, ed.** Illustrierte Völkerkunde, see also Byhan, A. Nordasien. 1923. No. 21057.

**BUSCHAN, GEORG, ed.** Illustrierte Völkerkunde, see also Byhan, A. Syrien. 1926. No. 21058.

**21043. BUSH, NIKOLAI ADOLFOVICH, 1869-1941.** K : poznaniu roda *Draba* Sibiri i Dal'nago Vostoka. (Akademiia nauk, SSSR. Izvestiia, 1918. Seria VI, t. 12, no. 15, p. 1631-48) **Title tr.:** Studies on species of the genus *Draba* from Siberia and the Far East.

Contains a key for the determination of 34 species of herbaceous genus *Draba* occurring in Siberia and the Far East, and a list of 29 new species, varieties and hybrids from Siberia. Includes Latin descriptions of *D. pseudonivalis* n.

sp. native to Yenisey Bay region, and some other species from arctic zone of Siberia; total distribution is also given.

**Copy seen:** MH.

**21044. BUSH, NIKOLAI ADOLFOVICH, 1869-1941.** Novye i maloizvestnye rasteniia iz lûtikovykh i krestovetnykh. (Akademiia nauk SSSR. Izvestiia, seriia 7, Otdelenie matematicheskikh i estestvennykh nauk, 1931, no. 3, p. 449-59, illus.) **Title tr.:** New and little known ranunculoid and cruciferous plants.

Contains Latin and Russian diagnoses of seven herb plants of the fam. Ranunculaceae and Cruciferae, including *Cardamine victoris*, inhabiting Penzhina Bay region, collected by V. B. Sochava in 1930.

**Copy seen:** MH.

**21045. BUSH, NIKOLAI ADOLFOVICH, 1869-1941.** O dîlenii Sibiri na botaniko-geograficheskiia oblasti. (Akademiia nauk SSSR. Izvestiia, 1913. Seriia VI, t. 7, no. 1, p. 39-46) **Title tr.:** On the division of Siberia into geobotanical regions.

Contains a criticism of the paper published by N. I. Kuznetsov under an almost identical title—*Opyt dîleniia Sibiri na botaniko-geograficheskiia provîntsiï*, 1912 (see *Arctic Bibliography*, No. 9517).

**Copy seen:** MH.

**21046. BUSHNELL, G. H. S.** Some old western Eskimo spear-throwers. (Man, 1949. v. 49, p. 121, plate)

Contains description of four specimens in Cambridge University Museum of Archaeology and Ethnology, which were obtained during Vancouver's voyage to the west coast of North America, probably from the Sandwich Islands, in 1792-1795.

**Copy seen:** DLC; InU.

**21047. BUSS, IRVEN O.** The upland plover in southwestern Yukon Territory. (Arctic, Dec. 1951. v. 4, no. 3, p. 204-213, illus., tables, diags.)

Report of an intensive study (made in July-Aug. 1950) of this plover, *Bertramia longicauda* on a breeding ground along the Duke River (tributary of the Kluane): notes on the area and its vegetation; the feeding behavior of the young; production and mortality; territory, home, range, movements, and departure from breeding grounds; observations on plover in other Yukon areas. Bibliography (15 items).

**Copy seen:** DLC.

**BUSSENIUS, ARNO, 1894-**, see Karjalainen, K. F. Religion Jugra-Völker. 1921-27. No. 23136.

**21048. BUTKEVICH, V. S.** Bacteria in the seas of the high latitude arctic regions. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1938, nouv. ser., v. 19, no. 19, p. 651-52, diags.)

Distribution of bacteria studied by the *Sadko* expedition of 1935 at stations to 83° N. in Kara Sea. Account of population densities at various depths.

**Copy seen:** DLC.

**21049. BUTLER, LEONARD, 1912-** Fur bearers of Canada. (Beaver, June 1951. Outfit 282, no. 1, p. 3-7, illus.)

General description of appearance, habits, characteristics, food, habitat, and reproduction of the beaver, muskrat, ermine, skunk, mink, marten, fox and other mammals contributing to Canada's fur crop.

**Copy seen:** DSI-M.

**21050. BUTLER, LEONARD, 1912-** Population cycles and color phase genetics of the colored fox in Quebec. (Canadian journal of zoology, Feb. 1951. v. 29, p. 24-41, sketch map, diags.)

Based on pelt collection data 1916-48 furnished by the Fur Trade Dept. of the Hudson's Bay Co., grouped into six regions which include (1) Hudson Strait, (2) Hudson Bay, (3) upper, and (4) lower James Bay. A few of the facts are that "the length of cycle for animals north of the tree line or in the arctic tundra is four years. Any animal which occurs in both arctic and nonarctic regions shows the characteristic cycle of the region in which it is living; both the cycle and color phase data indicate that northward migrations have taken place." Bibliography (10 items).

**Copy seen:** DGS; DLC.

**BUTOVICH, VIKTOR**, see Butovitsch, Viktor, 1901-

**21051. BUTOVITSCH, VIKTOR, 1901-**, and K. J. HEQVIST. Till kännedom om svenska skalbaggars utbredning. (Entomologisk tidskrift, 1947. Årg. 68, häft. 3-4, p. 184-88) **Title tr.:** On distribution of Swedish beetles.

Contains a list of about 150 beetles (collected by the authors in 1932-45) with localities, including many species new to the coleopterous fauna of Lycksele Lappmark.

**Copy seen:** MH-Z.

**21052. BUTSON, A. R. C.** Acclimatization to cold in the Antarctic. (Nature, London, Jan. 22, 1949. v. 163, p. 132-33)

Contains a report on cold acclimatization of 11 men to temperatures which in winter and spring usually range between 0° and -35° F., one of the men wearing less than he "was accustomed to wear in England in winter." In this connection problems of basal metabolic rate, adrenaline activity, blood sugar level, cold pressor test, etc., are studied. Bibliography (11 items). **Copy seen:** DLC

**21053. BUTURLIN, SERGEĬ ALEKSANDROVICH, 1872-1938.** Notes on woodpeckers (Fam. Picidae) in the Zoological Museum of the Imperial Academy of Sciences in St. Petersburg. (Akademika nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1908. t. 13, no. 3, p. 229-54)

Contains a critical revision of 17 species of woodpeckers with keys to the species, Latin descriptions of one new species and five new subspecies, synonymy, critical notes and data on distribution; includes a few species distributed in northern European and Asiatic Russia and Kamchatka.

**Copy seen:** DLC; MH-Z.

**21054. BUTURLIN, SERGEĬ ALEKSANDROVICH, 1872-1938.** Predvaritel'nyi spisok bol'shikh pstrykh dŕatlov. (Messenger ornithologique 1910, no. 3, p. 199-203) **Title tr.:** A preliminary list of larger spotted woodpeckers.

Contains a preliminary list of eleven species (one described as new) and fourteen subspecies of spotted woodpecker (*Dendrocopus*), including *D. major sibiricus* nom. nov., native to northern Scandinavia and Siberia, and *D. major purus* (*Picus kamschaticus*) from Kamchatka Peninsula; with descriptive notes and dimensions of more interesting forms.

**Copy seen:** MH-Z.

**21055. BUTURLIN, SERGEĬ ALEKSANDROVICH, 1872-1938.** Ptitsy tazovskoi ėkspeditsii Vserossiiskogo geografičeskogo obščhestva 1926-1927 g. (Moskva. Universitet. Gosudarstvennyi zoologicheskii muzei. Sbornik trudov, 1934. t. 1, p. 61-100) **Title tr.:** Birds of the Taz Expedition of the Russian Geographical Society in 1926-1927.

Contains a description of 68 species (312 specimens) of birds collected by the Expedition of Geographical Society

mostly near Obdorsk, western Siberia, and in the lower course of Taz River (67°30' N.) with dimensions and notes on ecology and local distribution. Summary in English.

**Copy seen:** DLC; MH-Z.

**BUTURLIN, SERGEĬ ALEKSANDROVICH, 1872-1938, see also Alferaki, S. N.** Gusi Rossii. 1904. No. 20133.

**BYDIN, F. I., see Svirskaja gosudarstvennaja ralonnaja gidroelektričeskaja stantsija. Svir'stroi; bor'ba s ledokhodom na r. Sviri. 1933. No. 26562.**

**21056. BYHAN, ARTHUR.** Die Lappen. (In: Buschan, Georg, ed. Illustrierte Völkerkunde, Stuttgart, 1926. Bd. 2, pt. 2, p. 1010-22, illus. no. 657-72) **Title tr.:** The Lapps.

Contains a general brief but comprehensive description of this mainly nomadic people numbering about 30,000, and living in Fennoscandia, Kola and Karelia: their origin and dissemination, language, physical characteristics and racial affinities, clothing and dwellings, reindeer breeding, sledges, hunting, food and beverages, form of tents, acculturation (Christian religion), survivals of pagan faith, the magician and his drum, folksongs.

**Copy seen:** DLC; InU.

**21057. BYHAN, ARTHUR.** Nordasien. (In: Buschan, Georg, ed. Illustrierte Völkerkunde, Stuttgart, 1923, Bd. 2, pt. 1, p. 276-341, illus., nos. 176-226, 2 plates, 2 maps) **Title tr.:** Northern Asia.

Contains general and comprehensive description of the Paleo-Siberian races, peoples (with statistics) and their languages, forms of production (animal breeding, hunting and fishing, agriculture), food and cooking, stimulants, sledges and skis, means of transportation, art and ornaments, music and dance, shamanism, mortuary customs, archeology. Numerous photographs, drawings are included and two maps: one giving distribution of peoples, the other types of dwellings and zones of reindeer-horse-and dog-transportation.

**Copy seen:** DLC; InU.

**21058. BYHAN, ARTHUR.** Die Syrjänen. (In: Buschan, Georg, ed. Illustrierte Völkerkunde, Stuttgart, 1926, Bd. 2, pt. 2, p. 965-73, illus., nos. 602-609) **Title tr.:** The Zyryans.

Contains general comprehensive description of this Finno-Ugric people, also

called Komi, numbering about 302,000 in 1920, and living between 58° and 68° N. lat. in European Russia; their vital statistics and territory, origin and history, physical characteristics, clothing, dwellings, agriculture, animal breeding, hunting and fishing, sledges and skis, food and beverages, home industry and trade with Samoyeds, family life, wedding customs, Russian influence, water spirits, popular medicine and magic, influence of Christianity. **Copy seen:** DLC; InU.

**21059. BYKOV, G. E.** On the question of climates during the Quaternary period of the Far East and on the history of permanently frozen grounds. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1938. nouv. ser., v. 20, no. 5, p. 387-90).

On the basis of organic remains in terraces of the Amur and other Far Eastern rivers, author challenges view advanced by Sumgin and others that permafrost in Asiatic U.S.S.R. is "genetically connected with glaciation of the Quaternary."

**Copy seen:** DLC.

**BYKOVA, N. B.,** see Samolovich, R. L., & others. Geologiya Arktiki. 1937. No. 25812.

**21060. BYKOVA, V. S.** Chemical composition of the Lovozero loparite and a method for its analysis. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1941, nouv. ser., v. 33, no. 2, p. 136-39, tables).

**Copy seen:** DLC.

**21061. BYKOVA, V. S.** Opreделение malykh kolichestv zemel'nykh kislot ( $Nb_2O_5 + Ta_2O_5$ ) v prisutstvii bol'shogo kolichestva okisi titana ( $TiO_2$ ). (Metod analiza loparitovoi rudy). (Akademiia nauk SSSR. Kol'skaiia baza. Trudy, 1936. vyp. 2, p. 39-58). **Title tr.:** Determination of small amounts of rare earth oxides (niobium and tantalum oxides) in titanium oxide minerals. (Method of analysis of loparite ores).

"Outlines the method and results of chemical analyses of titanate minerals, mainly loparite, from Kola Peninsula."—Geological Society of America, *Bibliography and index of geology*.

**Copy seen:** DGS.

**BYKOVSKIĬ, I. I.,** see Babkov, V. F., & others. Gruntovedenie i mekhanika gruntov. 1950. No. 20383.

**21062. BYLINSKIĬ, K. P.** Tekhnicheskiĭ analiz torfa. Moskva-Leningrad, Izd-vo. Gosudarstvennoe energetiche-

skoe, 1951. 68 p., illus., tables, diagrs.

**Title tr.:** Technical analysis of peat.

Contains instructions on general rules of sampling fuel peat and on the instruments used for this purpose; dividing the samples; preservation of samples; determination of moisture, ash, and heating capacity; elementary analysis of peat; determination of viscosity of the hydromass; of volumetric weight of lumpy peat and of the degree of decomposition of peat. Bibliography (8 items).

**Copy seen:** DLC.

**21063. BYLOMOV, V. S.** Termokhimicheskiĭ sposob ottavaniia gruntov. (Gornyi zhurnal, Aug. 1952. no. 8, p. 36-37, illus. table). **Title tr.:** Thermochemical method of thawing ground.

Contains a note on an adaptation of the thermite method for thawing frozen clay ground; size of cartridges, composition of the heating mixtures, etc., are given.

**Copy seen:** DLC.

**21064. BYRNE, J. C.** Discovery Yellowknife Mines justifies confidence. (Western miner, May 1951. v. 24, no. 5, p. 80, 82)

Excerpts from report of the company's president showing output and operating profit for Discovery Yellowknife Mines Ltd. during its first full year of operation, 1950.

**Copy seen:** DGS.

**21065. BYRNE, NORMAN W.** The Discovery Yellowknife gold mine, Giauque Lake, Yellowknife mining area, N. W. T. (Precambrian, Feb. 1950. v. 23, no. 2, p. 8-12, 17 illus.)

Description of preliminary work, geology, development, mining and milling plants, ore reserves and community of the gold mine brought into production, 1950, in the region of 63° 11' N. 113° 50' W. by Discovery Yellowknife Mines Limited.

**Copy seen:** DGS.

**21066. BYSTROV, A. P.** Opyt rekonstruktsii nekotorykh predstavitelei severo-dvinskoi fauny. (Akademiia nauk SSSR. Paleontologicheskii institut. Trudy, 1935, t. 4, p. 289-99, illus.). **Title tr.:** An attempt at the reconstruction of some representatives of the fauna of Northern Dvina River region.

Reconstruction of some fossil reptiles from the deposits of the Northern Dvina River region, on the basis of a study of their skeletons, with artistic sketches of heads and whole bodies. Summary in German.

**Copy seen:** MH-Z.

**21067. BYTOVOÏ, SEMEN.** Tikhooke-anskafâ vesna; putevye ocherki. Lenin-grad, Sovetskii pisatel', 1949. 229 p. **Title tr.:** Pacific spring; travel sketches.

Description of a recent trip through Kamchatka; account of its early explorers and their explorations.

**Copy seen:** DLC.

**21068. CADE, TOM.** Carnivorous ground squirrels on St. Lawrence Island, Alaska. (Journal of mammalogy, Aug. 1951. v. 32, no. 3, p. 358-60).

Contains discussion of relatively large amount of meat and fat consumed by *Citellus lyraus* in the Arctic, in relation to recent studies on its fat metabolism.

**Copy seen:** DGS; DSI-M.

**21069. CADE, TOM.** Food of the peregrine falcon, *Falco peregrinus*, in interior Alaska. (Auk, July 1951. v. 68, p. 373-74).

Contains tabulation of carcass remains from feeding-shelves of a falcon aerie on bluffs overhanging the Tanana River, shows 17 species of birds were prey to the falcon.

**Copy seen:** DSI-M.

**21070. CADE, TOM.** Notes on the birds of Sledge Island, Bering Sea, Alaska. (Condor, Jan.-Feb. 1952. v. 54, no. 1, p. 51-54).

Contains notes on observations made June 7-15, 1950, supported by the Arctic Institute of North America with funds of the U. S. Office of Naval Research. A description of the island (approx. 64° 30' N. 166° 10' W.) and a review of earlier work on the problem, precede a list of birds nesting on the local cliff rookery. This is followed by a list of 35 kinds of birds observed, most of them not recorded earlier from the two previous ornithological collections made on this island (by Koren in 1910 and Rasmussen in 1924, see *Arctic Bibliography*, No. 7216 and 17575. Notes on their history and ecology are included.

**Copy seen:** DAI; DSI-M.

**21071. CAHN, ALVIN ROBERT, 1892-** Canned crab industry of Japan. Washington, 1948. 50 p. incl. front., plate, tables, illus. (incl. 8 maps, diagrs.). (U. S. Fish and Wildlife Service. Fishery leaflet 314) Mimeographed.

"This is a reproduction of Report no. 109, Natural Resources Section, General Headquarters, Supreme Commander for the Allied Powers, Tokyo, issued July 26, 1948."

Report mainly on conditions before 1940, the last year considered as near normal. Areas of crab industry include Kamchatka's western and eastern shores, and Bering Sea near and in Bristol Bay, with a land cannery operating on the west coast of Kamchatka, floating canneries and trawlers in Kamchatkan and Alaskan waters. Description is given of the operation, inspection, grading, specifications, bacteriology and byproducts of the industry. Tabular data on: factory ships in operation, and catch and pack of such ships in Sea of Okhotsk 1926-42, and Alaskan waters 1932-40; also on crab fishing grounds off eastern Kamchatka, 1939.

**Copy seen:** DI.

**21072. CAILLEUX, ANDRÉ, 1907-** La forme des grains de quelques sables du Groenland. (Société Géologique de France. Compte rendu, avr. 4, 1938. p. 121-23) **Title tr.:** Grain forms of some Greenland sands.

Brief résumé of results of examination made of sand from West Greenland's beaches and rivers, showing most to be unworn, from nearby eruptive or crystalline rocks or quartzites; with remarks on wearing by wind, ice or littoral.

**Copy seen:** DGS.

**21073. CAILLEUX, ANDRÉ, 1907-**, and **É. THELLIER.** Sur la détermination de la couche de sol gelé. (Académie des Sciences, Paris. Comptes rendus, Avr. 21, 1947. t. 224, p. 1174-75) **Title tr.:** Determination of the thickness of frozen soil.

"The thickness of a layer of frozen soil is measured by lowering a glass cylinder vertically into the ground surface. A graduated wooden stick of equal length is notched at 6 mm. intervals. Capillary tubes filled with water are inserted in the notches and the apparatus is lowered into the glass cylinder. The upper and lower limits of frozen soil are indicated by the tubes holding ice."—SIPRE.

**Copy seen:** DGS; DLC.

**CAILLEUX, ANDRÉ, 1907-**, see also Victor, P. E., & others. Rapport prélim. 1949. 1950. No. 27104.

**CAIN, JOSEPH C.,** see Wilson, W. S., & others. Surface ozone College, Alaska, 1950. 1952. No. 27436.

**21074. CAJANDER, AIMO KAARLO, 1879-1943.** Der Anbau ausländischer Holzarten als forstliches und pflanzen-

geographisches Problem. Helsinki, 1923. 15 p. (*Acta forestalia fennica*: 24) *Title tr.*: The cultivation of foreign trees as a forestry and plant geographic problem.

Includes northern species and localities in the far North. *Copy seen*: DLC.

**21075. CAJANDER, AIMO KAARLO, 1879-1943.** Beiträge zur Kenntniss der Entwicklung der europäischen Moore. Helsingfors, 1904-05. 6 p. (*Fennia*, 22:3) *Title tr.*: Contribution to the knowledge of the development of the European bogs.

A comparison of the Lapland bogs with those of Bavaria, in regard to regressive development, surface, humidity and predominant vegetation.

*Copy seen*: DLC.

**21076. CAJANDER, AIMO KAARLO, 1879-1943.** Beiträge zur Kenntniss der Vegetation der Hochgebirge zwischen Kittilä und Muonio. Helsingfors, 1902-1903. 37 p. (*Fennia*, v. 20, no. 9) *Title tr.*: Contributions to the knowledge of the vegetation of the high mountains between Kittilä and Muonio.

*Contains* on the basis of a study trip in summer 1902, a general introductory sketch of this mountain area ca. 67° 40' N. 25° E.-68° N. 23° 40' E. Then follows descriptions of the vegetation of the alpine and subalpine regions, with lists of plant species and field notes on the plants. These data are presented according to area and nature of the ground, also according to character of the vegetation (grasses, weeds, bushes, etc.).

*Copy seen*: DLC.

**21077. CAJANDER, AIMO KAARLO, 1879-1943.** Ein Beitrag zur Entwicklungsgeschichte der nordfinnischen Moore. Helsingfors, 1902-1903. 37 p. plate. (*Fennia*, 20:6) *Title tr.*: A contribution to the history of development of the northern Finnish bogs.

*Contains* annotations on the flora making up three peat bogs in the valley of the Tornio and Kemi Rivers. In addition to lists of the plants in 42 test spots (indicated on sketch maps), the topography, surroundings, water and soil conditions, are noted. *Copy seen*: DLC.

**21078. CAJANDER, AIMO KAARLO, 1879-1943.** Metsätüypiteoria. Helsinki, 1925. 84 p., tables. (*Acta forestalia fennica*, 29:2) *Title tr.*: The theory

of forest types. Also pub. in English with title as above, q. v.

*Contains* (in this classic work on forest classification) chapters on the classification of forests according to quality; methods formerly used for assessing the quality of the locality; the forest types and their relation to forest mensuration, soil, plant biology and silviculture; application of forest types in practical forestry and for statistical purposes; forest types in relation to other vegetation types; forest types and problems of settlement, colonization, qualitative changes of locality; international forest problems. Arctic areas are specifically dealt with while describing the *Empetrum*-*Myrtillus* and *Hylocomium*-*Myrtillus* types of forest and also *Geranium*-*Dryopteris* and *Cladina* types (p. 34-39); general aspects of climate and forest types are dealt with in conclusion.

*Copy seen*: DLC.

**21079. CAJANDER, AIMO KAARLO, 1879-1943.** Studien über die Moore Finnlands. Helsingfors, 1913. 208 p. 14 illus., 20 plates, maps, (incl. 4 fold.). (*Acta forestalia fennica*, v. 2, no. 3) *Title tr.*: Studies on Finnish bogs.

*Contains* a general part dealing with definitions and classifications of bogs (according to: geological, biological, plant ecological criteria; chemical composition of the water; thickness of peat layer; occurrence of trees, etc.); kinds of Finnish bogs; genesis of bogs; degree of humidity; bog complexes and bog forests. The special part (p. 87-207), deals with the different types and subtypes of bogs; their vegetation and other characteristics, etc. Bibliographical footnotes.

*Copy seen*: DLC.

**21080. CAJANDER, AIMO KAARLO, 1879-1943.** The theory of forest types. Helsinki, 1926. 108 p., fold. table. (*Acta forestalia fennica*, 29:3)

English translation of the author's *Metsätüypiteoria*, 1925, q. v., with a bibliography (about 300 items) appended.

*Copy seen*: DLC.

**21081. CAJANDER, AIMO KAARLO, 1879-1943, and Y. ILVESSALO.** Ueber Waldtypen II. Drei Vorträge gehalten in der Sitzung der Geographischen Gesellschaft in Finland am 25 Februar, 1921. Helsingfors, 1922. 77 p., diagrs. (*Fennia*, 43:3) *Title tr.*: On forest types, II. Three lectures delivered at the meeting

of the Geographical Society of Finland on February 25, 1921.

*Contains* (in the first lecture "On forest types in general" by Cajander) discussion of plants' associations and the geographical, ecological and biological factors ruling their association; man's interference with plant associations, including forests; his measures to improve the latter and better to utilize them; and finally, some account of the forest types in Finland. Of the 15 forest types described, 4 are typical for northern Finland.

The second lecture by Ilvessalo deals with "Forest types as a foundation of new yield tables for Finland"; the third by Cajander "Investigations remaining to be done on forest types."

*Copy seen:* DLC.

**21082. CAJANDER, E.** Geographische Übersicht des Landbaus in Finnland. Helsinki, 1927. 92 p., 18 maps on 9 plates, tables. (Fennia, 47:14) *Title tr.:* Geographical review of the agriculture of Finland.

*Contains* data and discussion on the agricultural-geographic position of Finland (periods of the year for cultivation and grazing, areas of cultivation of the main crops, etc.); climatic-agricultural zones (including northern regions without agriculture proper); the geographic distribution of Finnish agriculture; areas under cultivation (including the northern districts of Lapland, Perä-Pohjola and the Tornio and Kemi valleys). Bibliography (over 50 items).

*Copy seen:* DLC.

**21083. CALDER, J. A.** Plants from the upper Frobisher Bay region, Baffin Island, N. W. T. Canada. (Canadian field naturalist, Mar.-Apr. 1951. v. 65, no. 2, p. 47-60, illus., map).

*Contains* briefly annotated checklist of about 150 vascular plants (with simple lists of algae, fungi, mosses and liverworts) collected in the course of a botanical survey made in the vicinity of the air-base at the head of Frobisher Bay on Koojesse Inlet at about 63° 45' N. 68° 34' W. The survey was carried out in summer 1948 by Dr. H. A. Senn and the author (who gives here also a general description of the area), primarily for an ecological study of the vegetation in the dominant mosquito-blackfly breeding habitats and for a general floristic survey of adjacent areas.

*Copy seen:* CaMAI.

**21084. CALDWELL, JOHN A.** Modifying standard engineer equipment for military use. (Military engineer, Mar.-Apr. 1952. v. 44, p. 116-19 incl. illus.)

"Modifications of commercial equipment for military use are kept to a minimum. Modifications of equipment for transport by air are discussed. Special problems introduced by arctic operations are considered. Vehicles for use in the Arctic during the summer should not have ground pressures exceeding 4.5 lb./sq. in. An experimental arctic tractor built by Allis-Chalmers is illustrated and briefly described."—SIPRE.

*Copy seen:* DLC.

**21085. CALEY, JOHN FLETCHER, 1905-**, and others. Eastern Canada. (In: Possible future petroleum provinces of North America; a symposium. *Pub. in:* American Association of Petroleum Geologists. Bulletin, Feb. 1951. v. 35, p. 458-85, illus., 9 maps) *Other authors:* A. E. Wilson, E. R. Rose, W. C. Gussow, I. W. Jones, D. J. MacNeil, and W. A. Roliff.

*Includes* (p. 458-60, with map) a sketch of the stratigraphy and structure of the Hudson-James Bay region, west and north of the Moose River, just into Manitoba where "favorable reservoir rocks and reef formations are known"; where, "however, no surface seepages of oil or gas are known and no showings have been recorded in any of the stratigraphic tests to date." Bibliography (9 items).

*Copy seen:* DGS.

**21086. CALHOUN, JOHN BUMPASS, 1917-** Population cycles and gene frequency fluctuations in foxes of the genus *Vulpes*, in Canada. (Canadian journal of research, Apr. 1950. v. 28, sect. D, p. 45-57, diags.)

"Contribution from the Department of Zoology and Entomology, The Ohio State University, and the Rodent Ecology Project of the Department of Parasitology, School of Hygiene and Public Health, The Johns Hopkins University. The work reported in this paper was partially conducted under a grant from the International Health Division of the Rockefeller Foundation." On the basis of tabulations of the numbers of red, cross, and silver color phases on phenotypes taken each year from seven provinces, including Quebec, Ontario, Manitoba and Northwest Territories, changes in population density were investigated with reference to changes in frequency of

the two genes that determine the presence of black rather than red pigment of the pelage. Bibliography (11 items).

**Copy seen:** DGS; DSI-M.

**CALIFORNIA INSTITUTE OF TECHNOLOGY, Pasadena, see Sharp, R. P.** On ice: Caltech 3d. season Alaskan glaciers. 1952. No. 26079.

**CALVIN, JACK, see Ricketts, E. F., & J. Calvin.** Between Pacific tides. 1948. No. 25525.

**21087. CAMERON, AUSTIN W., and W. A. MORRIS.** The mammals of the Lake Mistassini and Lake Albanel regions, Quebec. (Canada. National Museum. Bulletin 123, its Annual report of 1949-50, pub. 1951, p. 120-30)

Contains results of biological investigations by a field party of the National Museum in summer 1947 under W. Earl Godfrey. The mammals collected were studied by the senior author. The climate and physiography of the area (about 200 miles east of Rupert House on James Bay) and vegetation are described. The mammalian fauna is characterized as previously little known and rather poor due to conditions of habitat, excessive trapping (muskrat and other fur-bearers) and indiscriminate hunting (caribou). A list of 30 animals is offered with number of specimens collected, measurements, notes on habitat, previous reports of occurrence, etc. The birds collected by this party were reported by W. E. Godfrey, q. v.

**Copy seen:** DLC.

**21088. CAMPBELL, BRUCE D.** Where the high winds blow. N. Y., Scribners, 1946, ix, 221 p.

Reminiscences (with quotations from his diary) of the author's experiences in the Labrador region where he was stationed at Hudson's Bay Co. posts at Wolstenholme, Cape Smith and Port Harrison, 1934-38; with informative remarks throughout on his Eskimo neighbors and their way of life on Ungava Peninsula.

**Copy seen:** DLC.

**21089. CAMPBELL, NEIL.** The middle Devonian in the Pine Point area, N. W. T. (Geological Association of Canada. Proceedings, 1950. v. 3, p. 87-96)

Contains an account of the stratigraphic structural and lithologic features of the recrystallized dolomites, argillaceous limestones and limy shales which compose, or are associated with the Pine Point formation on the south shore of Great Slave

Lake, Northwest Territories. In the general area, the Paleozoic beds dip to the west in large, gentle folds, are fractured and show much jointing. Chert, gypsum, oil and bitumen, sulfur, galena, sphalerite, marcasite and pyrite are present.

**Copy seen:** DGS.

**21090. CANADA. ARMY. DIRECTORATE OF MILITARY TRAINING.** Exercise Sun dog two. (Canadian army journal, Mar. 1951. v. 4, no. 10, p. 22-29, illus.)

Contains summary of this joint Canadian Army-Royal Canadian Air Force Exercise in Feb. 1951, about 85 miles north of Fort Churchill on the Barren Grounds. It provided factual data on arctic airborne operations in the winter, training of joint staffs, testing of new equipment, etc. 13 photographs illustrate tents, transport vehicles, etc.

**Copy seen:** DLC.

**21091. CANADA. ARMY. HISTORICAL SECTION.** The Yukon Field Force 1898-1900. (Canadian army journal, Nov. 1950. v. 4, no. 6, p. 30-34, sketch map)

Contains account of a force of about 200 militia sent to the Yukon in 1898 (headquarters: Fort Selkirk, Dawson City) to aid Royal Canadian Mounted Police in maintaining law and order at the time of the gold rush.

**Copy seen:** DLC.

**21092. CANADA. BOARD ON GEOGRAPHICAL NAMES.** Geographical names in the Canadian North. (Arctic, Dec. 1950, v. 3, no. 3, p. 195; Sept. 1951, v. 4, no. 2, p. 144; Mar. 1952, v. 5, no. 1, p. 63-64; July 1952, v. 5, no. 2, p. 132)

Lists, arranged according to map sheets in the National Topographic Series (8 mi. or 4 mi.: 1 in.), of some 180 names adopted or changed for geographic features in the Yukon and Northwest Territories, Northern Quebec, Baffin, Southampton and other northern Islands. Approximate geographic coordinates are given.

**Copy seen:** CaMAI; DLC.

**21093. CANADA. BOARD ON GEOGRAPHICAL NAMES.** Geographical names in the Northwest Territories. (Arctic, Apr. 1950. v. 3, p. 72)

Twenty-seven "recently adopted" names, listed according to map sheets in the National Topographic Series (8 mi.: 1 in.). **Copy seen:** CaMAI; DLC.

**CANADA. DEFENCE RESEARCH BOARD,** *see* Hattersley-Smyth, G. F. Beaufort Sea exped. 1951. 1952. No. 22468.

**CANADA. DEFENCE RESEARCH BOARD,** *see also* Hocking, B., & *others*. Observ. bionomics N. mosquito species. 1950. No. 22640.

**CANADA. DEFENCE RESEARCH BOARD,** *see also* Hope, E. R. Frostbite, translations from Russian. 1950. No. 22704.

**CANADA. DEFENCE RESEARCH BOARD,** *see also* Zubov, N. N. Arctic ice & warming of Arctic. (Transl.) 1950. No. 27622.

**CANADA. DEPT. OF AGRICULTURE.** *see* Freeman, T. N. Manual survival & Eskimo words. 1950. No. 21914.

**21094. CANADA. DEPT. OF AGRICULTURE.** Central Experimental Farm. Abbreviated report of activities of the Experimental Sub-station Fort Vermilion, Alta., 1949. 40 l. typewritten.

*Contains* data on cereal yields, vegetable-growing test, etc., in a locality about 58°-59° N. lat.

*Copy seen:* CaMAI.

**CANADA. DEPT. OF AGRICULTURE.** Division of Botany & Plant Pathology Contribution no. 1003, *see* Cody, W. J. Plants collected by Woodruff, Melville Pen. 1950. No. 21242.

**CANADA. DEPT. OF AGRICULTURE.** Division of Entomology, *see* Twinn, C. R., & *others*. Area control of mosquitoes by aircraft in sub-arctic Canada. 1950. No. 26866.

**CANADA. DEPT. OF AGRICULTURE.** Division of Entomology, *see also* Twinn, C. R. Studies biology & control biting flies N. Canada. 1950. No. 26869.

**CANADA. DEPT. OF AGRICULTURE.** Division of Entomology. Biology & Control of Biting Flies in Northern Canada (program) *see* Jenkins, D. W., & C. C. Hassett. Dispersal & flight range mosquitoes. 1951. No. 22950.

**CANADA. DEPT. OF AGRICULTURE.** Division of Entomology. Biology & control of Biting Flies in Northern Canada (program), *see also* Miller, L. A. Observ. bionomics Tabanidae. 1951. No. 24356.

**21095. CANADA. DEPT. OF CITIZENSHIP AND IMMIGRATION.** The Indians of Canada. (*In:* Canada year book 1951, the official statistical annual of the resources, history, institutions, social and economic conditions of Canada, pub. Ottawa, 1951, p. 1125-33)

*Contains* outline of history and administration of Indian affairs: education, welfare, population data in 1944. (North-west Territories: 3816; Yukon: 1531), etc.

*Copy seen:* D.L.C.

**21096. CANADA. DEPT. OF MINES AND TECHNICAL SURVEYS.** Geographical branch. An introduction to the geography of the Canadian Arctic. Ottawa, King's Printer, 1951. xiii, 118 p. front. illus., 18 maps, incl. 6 fold (Canadian geography information series, no. 2)

*Contains* in this basic elementary manual, introduction by J. Wreford Watson, on the limits, significance and divisions of the Canadian Arctic; followed by chapters (mainly by J. Lewis Robinson, with contributions also by N. L. Nicholson, J. K. Fraser, B. G. Gutsell and D. Leechman, final maps by R. J. Gajda) on: (1-2) the physical geography of land, air and water, with characterization of each of the principal islands as well as mainland in Eastern and Western Canadian Arctic; (3) soils, vegetation, and wildlife; (4) discovery and exploration, with annotated chronology; (5) white population and settlements; (6) Eskimos; (7) transportation and communications; (8) economic resources: fur trade, reindeer herding, minerals; (9) government and social services. Bibliography (about 50 items).

Reviewed critically by P. D. Baird in *Arctic*, July 1952, v. 5, no. 2, p. 127-38.

*Copy seen:* CaMAI.

**CANADA. DEPT. OF MINES & TECHNICAL SURVEYS.** Geographical Branch, *see also* Arctic circular. Maps of NWT. 1952. No. 20275.

**CANADA. DEPARTMENT OF MINES & TECHNICAL SURVEYS.** Geographical Branch, *see also* Bird, J. B. Geog. & archeol. invest. Southampton I. 1951. No. 20689.

**CANADA. DEPT. OF MINES & TECHNICAL SURVEYS.** Geographical Branch, *see also* Fraser, J. K. Can. Ice Distrib. Survey. 1952. No. 21907.

**CANADA. DEPT. OF MINES AND TECHNICAL SURVEYS.** Surveys & Mapping Branch, *see* Miller, W. H. Organization of surveys, mapping & charting Can. 1951. No. 24370.

**CANADA. DEPT. OF NATIONAL HEALTH & WELFARE,** *see* Canada. Northwest Territories & Yukon Services. Book of wisdom for Eskimo. 1947, 1949. No. 21114.

**21097. CANADA. DEPT. OF RESOURCES AND DEVELOPMENT.** Administration of the Eskimos. (*In:* Canada year book 1951, the official statistical annual of the resources, history, institutions, social and economic conditions of Canada, *pub.* Ottawa, 1951, p. 1134-35)

Contains estimate of population (8,437 as of Jan. 1950, excluding Labrador) and brief characterization of areal; with précis of the government's economic, social, educational program for Eskimos. *See also* p. 233-34 of this 1951 volume, also data on Eskimo in *Canada year book 1948*.  
**Copy seen:** DLC.

**21098. CANADA. DEPT. OF RESOURCES AND DEVELOPMENT.** New records in Yukon. (Western miner, Apr. 1951. v. 24, no. 4, p. 84-86, *illus.*)

On the basis of preliminary estimates for 1950, report is given of production of gold, and silver-lead-zinc-cadmium, with special notes on the Whitehorse, Dawson and Mayo mining districts.

**Copy seen:** DGS.

**21099. CANADA. DEPT. OF RESOURCES AND DEVELOPMENT.** Settlements and trading posts of the Northwest Territories. May 1951. Ottawa, Northern Administration and Lands Branch, 1951. 71. mimeographed.

List of 81 settlements in N. W. T. and those in northern Quebec and Manitoba served by the Eastern Arctic Patrol. For each is indicated its location, resident officers, facilities, etc.

**Copy seen:** CaMAL.

**21100. CANADA. DEPT. OF RESOURCES AND DEVELOPMENT.** Yellowknife output increases. (Western miner, Apr. 1951. v. 24, no. 4, p. 82-83, *illus.*)

General report based on preliminary estimates, 1950, of gold production, and exploratory activity in petroleum and uranium fields in the Northwest Territories.

**Copy seen:** DGS.

**21101. CANADA. DEPT. OF RESOURCES AND DEVELOPMENT.** Development Services Branch. Banner year at Yellowknife. (Western miner, Apr. 1950. v. 23, no. 4, p. 40-42, *illus.*)

Brief notes on mining developments, surveys, and prospecting during 1949, in 14 localities of Northwest Territories.

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**21102. CANADA. DEPT. OF RESOURCES AND DEVELOPMENT.** Development Services Branch. Greatest post-war year in Yukon. (Western miner, Apr. 1950. v. 23, no. 4, p. 35-37, *illus.*)

Review of 1949 mineral production for the three administrative divisions, Dawson, Mayo and Whitehorse mining districts, with note on transportation, especially roads.

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**CANADA. DEPT. OF RESOURCES & DEVELOPMENT.** Northern Administration & Lands Branch, *see Arctic circular*. Maps of NWT. 1952. No. 20275.

**21103. CANADA. DEPT. OF RESOURCES AND DEVELOPMENT. NORTHERN ADMINISTRATIONS.** Reindeer herding in Canada. Ottawa, 1950. 41. Mimeographed.

Report on status of the herds after the annual roundups in summer 1950: one herd under government, two under native management, altogether about 7500 head, on the 6600 square mile reindeer reserve along the east side of the Mackenzie delta. A retrospective summary is given of Canadian government activity since 1919, importing reindeer and Lapp herders, and training Eskimos to reindeer ranching as a means of stable livelihood. Finally the utilization of the reindeer products, study of reindeer problems and work of the Reindeer Range station under Lee Bryant Post is remarked upon.

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**CANADA. DEPT. OF RESOURCES & DEVELOPMENT.** Northwest Territories Branch, *see* Houston, J. A. Eskimo handicrafts. 1951. No. 22720.

**21104. CANADA. DEPT. OF RESOURCES AND DEVELOPMENT.** Water Resources Division. Surface water supply of Canada. Arctic and western Hudson Bay drainage and Mississippi drainage in Canada; in British Columbia, Alberta, Saskatchewan, Manitoba, the Northwest Terri-

tories and Western Ontario. Climatic years 1943/44-1945/46 and 1946/47. Ottawa, 1949-51. 2 v. tables. (*Its*: Water resources paper no. 97, 101)

*Contains* data for Mackenzie River at Simpson, gauge heights during open water, 1944-47; at Norman, gauge heights July 1944-Oct. 1947.

Slave River at Fort Smith, water elevations in feet, June 1944-Oct. 1947.

Liard River at Fort Liard, daily gauge heights Oct. 1943-Sept. 1947; near Watson Lake, Yukon Territory, daily discharge, Aug. 1944-Sept. 1947.

Great Slave Lake at Resolution, daily gauge heights May 1944-Oct. 1947; at Yellowknife Bay, water elevations, Oct. 1943-Sept. 1947; Lockhart River at outlet from Artillery Lake, monthly discharge, Aug.-Sept. 1944, Aug. 1945-Sept. 1947, daily discharge, Sept. 1944-47; Yellowknife River at outlet from Bluefish Lake dam, diversion at site Y<sub>2</sub> north shore of Prosperous Lake, and at inlet to Prosperous Lake, monthly and daily discharge Oct. 1943-Sept. 1947.

Snares River below Big Spruce Lake, monthly and daily discharge, May 1945-Sept. 1947.

Great Bear Lake at Port Radium, water elevations in feet, Oct.-Dec. 1943, June-Aug. 1944, Sept.-Nov. 1946, June-Sept. 1947. *File seen*: CA MAI; DGS.

**21105. CANADA. DEPT. OF RESOURCES AND DEVELOPMENT.** Water Resources Division. Surface water supply of Canada. Pacific drainage, British Columbia and Yukon Territory, climatic years 1942/43-1945/46.-Ottawa, 1950. 2 v. (*Its*: Water resources paper no. 98, 102)

*Includes* data in Yukon Territory for Yukon River at Dawson, daily gauge height June-Sept. 1944, Mar. 1945-Sept. 1946; Teslin Lake near Teslin, daily gauge height Aug. 1944-Sept. 1946; Teslin River near Teslin, monthly and daily discharge Apr.-Sept. 1944, Sept. 1945-Aug. 1946; Lewes River, daily gauge height above and below control dam near Whitehorse, Jan. 1941-Sept. 1944; at Whitehorse May 1902-Sept. 1946, monthly discharge Oct. 1943-Sept. 1946; Mayo River at Minto bridge, daily and monthly discharge Sept. 1945-Sept. 1946; a few miscellaneous discharge measurements in the Yukon River drainage basin for 1945-46 (including Klondike and McQueston Rivers). See *Arctic Bibliography* No. 2758 for earlier data on Lewes River.

*File seen*: DGS.

**21106. CANADA. DEPT. OF RESOURCES AND DEVELOPMENT.** Water Resources Division. Surface water supply of Canada. St. Lawrence and southern Hudson Bay drainage... climatic years 1945/46-1948/49. Ottawa 1950-52. 2 v. (*Its*: Water resources paper no. 99, 103)

*Includes* data for the southern Hudson Bay drainage, on monthly and daily discharge of the Missinaibi, Mattagami, Abitibi and Harricana Rivers, Oct. 1945-Sept. 1949, at points south of the geographic limits of this Bibliography. For earlier data, see *Arctic Bibliography* No. 2759. *File seen*: DGS.

**21107. CANADA. DEPT. OF TRANSPORT.** Navigation conditions on the Hudson Bay Route from the Atlantic seaboard to the port of Churchill, season of navigation 1948 [-1951]. Ottawa, King's printer, 1949-1952. 4 v. (20th-23d annual reports)

*Contains* annual compilations of data similar in scope and detail to previous years' reports (*Arctic Bibliography* No. 2756): dates of opening and closing of navigation and the conditions of progress of the break-up and the starting of ice formation at various points of Hudson Bay and Strait; information on ice conditions and navigability in these waters, extracted from the log of ships that cruised in the area; particulars of ships using the port of Churchill; list of aids to navigation such as radio, coast and lighthouses. Meteorological data are reported from the patrol vessels and stations at Resolution Island, Cape Hopes Advance, Nottingham Island, Churchill, Chesterfield, Port Harrison, and Coral Harbour on Southampton Island. *Rupert Island* and *C. D. Howe*, new vessels operating in the Canadian Eastern Arctic are noted.

*File seen*: DN-HO.

**CANADA. DEPT. OF TRANSPORT.** Meteorological Division, see Rae, R. W. Climate Canadian arctic archipelago. 1951. No. 25333.

**21108. CANADA. FISHERIES RESEARCH BOARD.** Annual report for 1950. Ottawa, King's Printer, 1951. 138 p., diagrs., text in English and French.

*Contains* reports on work of the biological and fisheries research stations, including (p. 67-70) Eastern Arctic investigations from the *Calanus*' cruise June-Sept. to Hudson Strait and Ungava Bay.

Notes (by M. J. Dunbar) on continued study of cod, seal, arctic char, and on possibilities for fishery resources (seal, shark, cod, beluga, also fresh-water fishes) to be utilized to alleviate the deteriorating economic condition of Eskimos of the Ungava Bay region.

*Copy seen:* CaMAI.

**21109. CANADA. FISHERIES RESEARCH BOARD.** Annual report for 1951. Ottawa, King's printer, 1952.

*Includes* (p. 108-111) report (by M. J. Dunbar) on the work of the *Calanus* during the 1951 season: oceanographic profiles of Ungava Bay and Frobisher Bay, with experimental dredging, trawling and line-fishing; investigation of "Ogak Lake" (at the head of Ney Harbour, Frobisher Bay) and its cod population; work on the arctic char in the Sylvia Grinnell River, Frobisher Bay (p. 111-12); analysis of Ungava Bay plankton copepods, and oceanographic work in the Beaufort Sea (p. 112).

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**21110. CANADA. GEODETIC SERVICE.** Report on areas of Northwest Territories (District of Keewatin) visited in 1943 in connection with a program of astronomical observations for map control, required for preparation of Air Navigation charts. November 17, 1943. B. J. Woodruff: Some impressions of Keewatin District adjacent to the Hudson Bay. 10 l. (typewritten), 49 mounted photographs on 23 l.

From his reconnaissance by boat of coastal region and islands in 1942, and of land area north and west of Churchill by air in 1943, the author remarks on vegetation, game and fish, fox and seal hunting. Attempts at vegetable cultivation, life of Eskimos of the region, particularly as affected by trade in white man's goods. Photographs show type of vegetation, archeological remains, aerial views of the region, etc.

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**21111. CANADA. GEODETIC SERVICE.** Report on areas of Yukon Territory and Northwest Territories (District of Mackenzie) visited in 1943 in connection with a program of astronomical observations for map control, required for preparation of Air Navigation charts. November 17, 1943. C. B. C. Donnelly. 38 l. (typewritten), fold. map, 141 mounted photographs on 47 l.

*Contains* narrative of 12,000 flights

made in the area, with description of vegetation, wildlife, native and white inhabitants, resources, game, hunting practices and economic returns.

*Copy seen:* CaMAI.

**CANADA. GEODETIC SURVEY,** *see* Ross, J. E. R. N. activities Geodetic Survey 1950-1. 1952. No. 25662.

**CANADA. GEOLOGICAL SURVEY,** *see* Harwood, T. Voyage round Cornwallis I. 1951. No. 22461.

**CANADA. INDIAN HEALTH SERVICES,** *see* Arctic circular. Tuberculosis survey: James & Hudson B. 1951. No. 20286.

**21112. CANADA. METEOROLOGICAL DIVISION.** A local forecast study for Goose Airport, Labrador. (*Its:* Local forecast study no. 1, Cir. 1900, Feb. 16, 1951) 14+p., figs., tables.

"A combined study by 9 forecasters with local experience. Includes description and map of site [approx. 53°22' N. 60°08' W.], account of winds and turbulence, detailed account of weather associated with various air masses and fronts and with lows to south and east, and conditions for fog. Tables are given for ceiling/visibility/wind and for temperature."—*Meteorological abstracts and bibliography*, Jan. 1952. v. 3, no. 1, p. 6.

*Copy seen:* DWB.

**CANADA. METEOROLOGICAL SERVICE,** *see* Bremner, P. C. Permafrost drilling at Resolute B. 1952. No. 20885.

**CANADA. METEOROLOGICAL SERVICE,** *see also* Rae, R. W. Joint arctic weather project. 1951. No. 25334.

**CANADA. METEOROLOGICAL SERVICE,** *see also* Saltzman, P. P. Operation Icecapade. 1950. No. 25806.

**CANADA. NATIONAL FILM BOARD,** *see* Wilkinson, D. National Film Board Arctic Project. 1952. No. 27399.

**21113. CANADA. NATIONAL GALLERY OF CANADA.** Eskimo art. Ottawa, 1951. 12 p. plates.

*Illustrated* catalog of carvings by Canadian Eskimos.

*Copy seen:* CaMAI.

**CANADA. NATIONAL MUSEUM,** *see* Sargent, M. Folk & primitive music Canada. 1951. No. 25836.

**21114. CANADA. NORTHWEST TERRITORIES AND YUKON SERVICES.** The book of wisdom for Eskimo . . . Khaoyimayun titigangit inuinnangmun. Translation into syllabics by Samuel G. Ford; translation into Eskimo (Roman characters) by Cyril Wingnek; sketches by Betty Kosior. Ottawa, 1949. [3], 28, [1], 28, [1], 39 p. illus.

*Contains* text (English, syllabics and Eskimo) in 2 parts: the first supplied by Dept. of National Health and Welfare gives simple, graphic explanation and directions on sickness, camp and personal hygiene and child care; the second outlines family allowances from the government, care of boats and rifles, conservation of game and food supply, etc. First published (with text in English and syllabics on opposite pages, 28, 28 p.) in 1947.

*Copy seen:* CaMAI.

**21115. CANADA. OFFICE OF THE SPECIAL COMMISSIONER FOR DEFENCE PROJECTS IN NORTHWEST CANADA, Edmonton.** Road log. Alaska Military Highway, Edmonton, Alta., Sept. 1, 1945. 5 l., mimeographed.

*Contains* record of mileage (from Dawson Creek, B. C.) of camps along the Highway, proceeding northwesterly towards the Canada-Alaska border. The mileages given are not absolutely correct but are approximately correct in relation to the mileposts as of Aug. 31, 1945. Maintenance camps in operation at that date are indicated.

*Copy seen:* CaMAI.

**CANADA. POST OFFICE,** *see Arctic circular.* Arctic mail. 1951. No. 20264.

**CANADA. WILDLIFE SERVICE,** *see Arctic circular.* Wildlife work NWT. 1951. No. 20290.

**CANADA. WILDLIFE SERVICE,** *see also* Banfield, A. W. F. Barren-ground caribou. 1951. No. 20440.

**CANADA YEAR BOOK 1951,** *see* Canada. Dept. of Citizenship & Immigration. Indians of Canada. 1951. No. 21095.

**CANADA YEAR BOOK 1951,** *see also* Canada. Dept. of Resources & Development. Administration of Eskimos. 1951. No. 21097.

**21116. CANADIAN GEOGRAPHICAL JOURNAL.** 1949-50 supplement[s] to "A regional bibliography of articles in the Canadian geographical journal 1930 to

1947". (Canadian geographical journal, Feb. 1950 and May 1951. v. 40, p. 101; v. 42, p. 237)

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**CANADIAN HANDICRAFTS GUILD,** *see* Houston, J. A. Eskimo handicrafts. 1951. No. 22720.

**CANADIAN HANDICRAFTS GUILD,** *see also* Houston, J. A. In search of Eskimo art. 1952. No. 22722.

**21117. CANADIAN HOSPITAL.** Health studies of Eskimos delayed by *Nascopie* loss. (Canadian hospital, 1947. v. 24, p. 27-29, illus.)

*Contains* note on health studies conducted in 1946 by various organizations, among the 6000 Eskimos of the Canadian Eastern Arctic (of which continuation in 1947 was delayed by the foundering of the *Nascopie*). Cases of healed tuberculous bones were found, showing a build-up of immunity to white man's disease. "Cancer and nervous, mental and heart diseases . . . were not to be found . . . Not one case of infected sore throat or tonsillitis was encountered." A chest survey of 1547 individuals will enable the organization of a preventive program.

*Copy seen:* DSG.

**21118. CANADIAN MINING JOURNAL.** Aircraft ski research. (Canadian mining journal, Dec. 1950. v. 71, no. 12, p. D54) Brief description of problems and type of experimental work being done on aircraft skis by G. J. Klein for the National Research Council of Canada.

*Copy seen:* DGS.

**21119. CANADIAN MINING JOURNAL.** Quebec-Labrador railway. (Canadian mining journal, Dec. 1950. v. 71, no. 12, p. H59-H60, map)

Note on route, projected operation and capital outlay of the Quebec North Shore and Labrador Railway, subsidiary of the Iron Ore Company of Canada. The railroad is planned to connect the iron ore development on the Quebec-Labrador boundary at about 54° N. 65°-67° W., with the port of Seven Islands 50°13' N. 66°24' W. on the north shore of the Gulf of St. Lawrence. *Copy seen:* DGS.

**CARABELLO, CHARLES A.,** *see* Wyatt, T. C., & others. Hypervitaminosis A report of case. 1950. No. 27503.

**21120. CARADJA, ARISTID VON.** Beitrag zur Kenntnis über die geographische Verbreitung der Pyraliden des

europäischen Faunengebietes nebst Beschreibung einiger neuer Formen. (Deutsche entomologische Zeitschrift Iris, 1910. Bd. 24, Heft 6-7, p. 105-147)

**Title tr.:** A contribution to knowledge of the geographic distribution of European Pyralidae with descriptions of some new forms.

Contains a list of about 400 small moths of the fam. Pyralidae, with localities and with descriptions of some new forms, based on several collections from various regions, including a few species gathered by Max Bartel in Abisko, Swedish Lapland in 1909; *Crambus dumetellus* var. *boreellus* is described as new to science.

**Copy seen:** MH-Z.

**21121. CARLGREN, OSKAR HENRIK, 1865- .** Actiniaria from North America. (Arkiv för zoologi, 1952. Ser. 2, Bd. 3, no. 30, p. 373-90, illus.)

Contains descriptions of 13 species of sea anemones (Actiniaria) collected by Prof. T. A. Stephenson in 1947 on the eastern and western coasts of North America, including *Anthopleura xanthogrammica* native to Baranof Island and *A. artemisia* occurring in Alaska.

**Copy seen:** MH-Z.

**21122. CARLGREN, OSKAR HENRIK, 1865- .** Zur Revision der Actiniarien. (Arkiv för zoologi, 1934. Bd. 26A, no. 18, p. 1-36, illus.) **Title tr.:** Revision of Actiniaria.

Contains a critical revision of 17 species of Actiniaria (one described as new) based on the study of museum material and literature sources; includes *Evactis artemisia* from Wrangell Island, Alaska.

**Copy seen:** MH-Z.

**21123. CARLSON, CARL BARNHARD, 1909- .** Commercial possibilities of shrimp resources in certain southeastern Alaska areas. A study by the Fisheries Experimental Commission of Alaska. Washington, 1945. 24 p., illus. (incl. 2 maps, tables). (U. S. Fish and Wildlife Service. Fishery market news, July 1945 suppl.)

Report on an investigation in the Ketchikan area and west coast of Prince of Wales Island, Oct.-Nov. 1944. Description of shrimp trawler, gear and operation; log and tabular data for each location; and discussion of occurrence of shrimp, the relative merits of beam and other trawls, and size distribution; with a few remarks on dungeness crabs taken incidentally.

**Copy seen:** DI.

**CARLSON, CLARENCE J.,** see Wigutoff, N. B., & C. J. Carlson. Survey of the commercial fishery of Seward Pen. area [etc.] 1950. No. 27376.

**21124. CARLSON, HARRY.** Calculation of depth of thaw in frozen ground. (National Research Council. Highway Research Board. Frost action in soils, a symposium. Its: Special report, 1952. no. 2 (N. R. C. pub. no. 213) p. 192-223, illus.)

Formulas for depth of freezing calculations were checked against test results and modified for calculating depth of thaw. A correction factor was developed for the relations between air temperatures and various surfaces such as concrete, asphalt, gravel, and vegetation. Factors involved in the calculations include air temperature, type of surface, soil density, moisture and thermal conductivity. Checks on the formulas were made at various airfields in Alaska and at test structures in Fairbanks from 1945 to 1947. The formulas can be used to indicate the relative merits of various materials in preventing frost penetration. Further research is recommended."—SIPRE.

**Copy seen:** DLC.

**21125. CARLSON, L. D., and others.** Report of studies on acclimatization, winter 1948-1949. Washington. University, Seattle, Washington. Contract AF33/038.-422, [Report] Aug. 1949. 27 p. diags., graphs. (U. S. Air Force, AF Technical Report) **Other authors:** H. L. Burns, W. E. Quinton, and R. S. Bark.

"Report on experiments made at Ladd Field, Fairbanks, Alaska with instruments developed at the Dept. of Physiology and Biophysics, Univ. of Washington. Expired air was analyzed, skin and body temperature, rate of heat loss and heart rate recorded under changing temperature and working conditions. Schematic drawings of the instruments used and data arranged in tables and graphs are presented."—*Meteorological abstracts and bibliography*, Aug. 1952. v. 3, no. 8, p. 828. Bibliography.

**Copy seen:** DWB.

**CARLSON, L. D.,** see also Young, A. C., & others. Regional heat loss temperature gradient colorimetry. 1950. No. 27516.

**21126. CARLSON, LUCILE.** The mining district of Kiruna Stad, Sweden. (Scientific monthly, Feb. 1952. v. 74, no. 2, p. 76-83, illus. diags., maps).

Contains an account of the mining town of Kiruna (67°50' N., 20°15' E.) its location, area, population, the iron deposits, their extent and qualities; methods of mining; conditions in winter (with tabular data on temperatures, etc. 1950-1951); production; export and export routes; customers, etc. **Copy seen:** DA.

**21127. CARPE, ALLEN, d. 1932.** Observations. (*In:* Alpine Club of Canada. The Mount Logan Expedition. *Pub.* in: Canadian alpine journal, 1925. v. 15, p. 81-98, incl. tables, 3 plates, diag.)

Contains notes on topographic changes needed on (then) existing maps, concerning certain glaciers, cols and cliffs on the mountain; altitudes; physiological observations on respiration; remarks on cameras and film; glacier, snow and meteorological conditions (including optical phenomena, shadow images and fog-bows or halos); and tabular record of air temperature observations, May 12-July 2, 1925 (several times daily, irregular, with some overnight minimums). **Copy seen:** DGS.

**21128. CARPENTER, FRANCES, 1890-** Canada and her northern neighbors. [New York] American Book Co. [1946, 1953] ix, [1], 438 p. illus. (incl. ports., maps)

Contains a popular geographic and historical survey for young people. An imaginary flight over the area presents the main physical features, locations, climate, and is supplemented by corresponding data and figures. The conquest and opening of the country is outlined. Labrador, the Yukon, Northwest Territories are treated among other areas. Greenland and Alaska are surveyed as "her northern neighbors."

**Copy seen:** DLC.

**CARRIGEN, RALPH S.,** *see* Johnson, W. M., & others. Correlation climatological data Bering Sea & Aleutian I. 1944. No. 23008.

**21129. CARRIGHAR, SALLY.** The brown lemming in captivity in Alaska. (*Arctic circular*, Feb. 1952. v. 5, no. 2, p. 17-19)

Contains a vivid report on a small colony of this lemming *Lemmus trimucronatus alascanis* Merriam, which survived in captivity (at Nome) for more than a year, with details of their care, which, in addition to food included provision of driftwood and earth for gnaw-

ing and burrowing respectively; installment of an activity wheel which appears essential for energy relief and survival; supply of water for bathing, etc.

**Copy seen:** DLC.

**21130. CARRIGHAR, SALLY.** Unalakleet, Alaska. (*Saturday evening post*, Jan. 12, 1952. v. 223, p. 32, 42-43, 45-46, illus.)

Contains (in this 113th in a series of articles on "Cities of America") description of this Eskimo village on Norton Sound of 500 population, with all community activities except those of trader, missionaries and school teachers, carried on by Alaskan natives. Author notes hunting and whaling, the white trading post, mission, native cooperative store, women's work, etc., commenting on differences in viewpoints and values of whites and natives. **Copy seen:** DLC.

**CARTER, HARRY HART, 1921-**, *see* Challenger, E. R., & H. H. Carter. Iceberg census Baffin B. 1948. 1950. No. 21144.

**CARTER, HARRY HART, 1921-**, *see* also U. S. Coast Guard. International ice observ. & patrol 1941, 1948. 1950. No. 26889.

**CARTER, NEAL M.,** *see* Bailey, B. E., & others. Marine oils. 1952. No. 20408.

**21131. CASE, R. A. M.** A study of the incidence of disease in a whaling expedition to the Antarctic pelagic whaling grounds 1946-7. (*British journal of social medicine*, 1948. v. 2, p. 1-17, tables, diag.)

Detailed hospital data accumulated aboard the *Balaena* 1946-47 showed that the whaling season exercises a deleterious influence on the health of the crew of the factory ship. The largest increase of diseases occurred in those classified as "suppurative lesions, traumatic lesions without sepsis, non-diarrhoeic alimentary disorders, 'rheumatic' conditions, and dental disorders". Sepsis was often associated with the intestinal flora of the whales, which soon after death cause heavy contamination of the meat; it is therefore suggested that lapse of time between killing and processing the whale be kept at a minimum. Gas gangrene should be considered as a real danger to whalers and hospital stores and equipment organized accordingly.—From author's summary. Bibliography (5 items).

**Copy seen:** DSG.

**21132. CASSEL, F. L.** Snow and ice mechanics. (Civil engineering and public works review, Nov. 1950. v. 45, p. 715-17)

General discussion of directions taken in the fundamental research on snow and ice since 1934, the analogy of snow mechanics with soil mechanics, snow sampling and sounding methods, strength tests and theories on snow pressure and creep.

"Objectives of snow and ice mechanics studies include: (1) physical changes involved in the aging of snow, (2) forces exerted by snow creep, and (3) compressive, tensile, and shear strength. The methods of research and instrumentation used in snow and ice mechanics are similar to those used in soil mechanics. Methods of sampling snow consist in obtaining undisturbed cores by means of cylindrical tubes. Both snow fields and soil sediments are sounded with a ramsonde which consists of a rod with a conical tip. Tensile strength is measured by rotating undisturbed specimen until centrifugal force causes fracture. Some pressure theories assume a cohesive, striated, and foliated mass in which failure planes form in planes of discontinuity. Maximum snow pressure is caused by a creeping mass in which the stresses are below the shear strength due to the plasticity of the snow."—SIPRE.

**Copy seen:** DGS; DLC.

**21133. CASTRÉN, JALMAR.** Petsemon radan taloudelliset edellytykset; mahdolliset ratasuunnat. (Teknillinen aikakauslehti, 1924. v. 14, no. 1, p. 5-49, map, table) **Title tr.:** The economic advantages of a railroad to Petsamo; possible routes to use.

Contains description of three possible routes to Petsamo (shown on map) their relative advantages and effects on the southern and northern parts of the area; data on the population, farming, dairy husbandry, industry and its potential expansion, movement of goods and people; discussion of the proposed railroad in relation to roads, fishery, forestry, water power, and a general survey of the resultant economic advantages to the area, of a railroad to an arctic seaport.

**Copy seen:** DLC.

**21134. CASTRÉN, MATTHIAS ALEXANDER, 1813-1852.** O znamenit slov: Jumala i Ukko v finskoj mifologii. (Akademiiâ nauk SSSR. Uchenyâ zapiski, 1853. t. 1, vyp. 4, p. 491-528) **Title tr.:**

On the meaning of the words Jumala and Ukko in Finnish mythology.

Contains discussion based on folk poetry and a linguistic explanation of the words; *Jumala* in old Finnish had the meanings "heaven", "god of heaven", "god in general", and *Ukko* was the "heavenly god." The paper, read before the Academy Apr. 16, 1852, was also published in German: *Was bedeuten die wörter Jumala und Ukko in der finnischen Mythologie* in the Academy's Bulletin de la classe historico-philologique, 1853, t. 10, no. 1-3, p. 30-62, and in its *Mélanges russes*, t. 2, p. 175-217.

**Copy seen:** DLC.

**21135. CASTRÉN, MATTHIAS ALEXANDER, 1813-1852.** Pamâti M. A. Kastrena k 75-letiiû dnâ smerti. Leningrad, izd-vo Akademii nauk SSSR, 1927. 141 p. illus. (facsim.) port. (Akademiiâ nauk SSSR. Ocherki po istorii znanii, 2) **Title tr.:** Tribute to M. A. Castrén on the 75th anniversary of his death.

**Contents:** S. F. Ol'denburg. Predislovie (Introduction): Appraisal of the cooperation between Franz Anton Schiefner and Castrén.

V. G. Bogoraz. Kastren, chelovek i uchenyi (Castrén as man and scholar) p. 3-35. A characterization of Castrén's personality with many quotations from his letters and works.

L. I. A. Shternberg. Kastren, altaist, étnograf (Castrén as an altaist and ethnographer) p. 36-56. Discussion of his intuitive ability to discover affinities between linguistic groups, his recognition of agglutination among all the Ural-Altaic languages, his discovery that peoples speaking related languages show also affinities in cultural manifestations, his attitude to theories on social organization of primitive peoples, on development of magic, folk medicine, etc.

D. V. Bubrikh. Kastren, issledovatel' finno-ugorskikh narodnostei (Castrén as investigator of the Finno-Ugric nationalities) p. 57-64. The object of his study was rather Samoyeds than Finns and he was doomed (by early death) to be more collector of material than investigator; nevertheless, he laid the foundation for Finno-Ugric studies.

N. N. Poppe. Kastren, issledovatel' samoedskikh âzykov (Castrén as investigator of the Samoyedic languages) p. 65-75. Sketch of his years devoted to this task, his sojourn 1842-44 among the Samoyeds, his financial support from the

Russian Academy of Sciences and assistance of academician Sjögren; his Samoyedic grammar and vocabulary published posthumously in 1854-55.

A. N. Samollovich. Kastren, turkoved (Castrén and his Turcic research) p. 76-86. Remarks on his investigation of the Koibal and Karagas languages.

B. I. A. Vladimirov. Kastren, mongolist (Castrén and his Mongolic research) p. 87-92. Account of his meeting with the Buryats in 1845-49.

V. G. Bogoraz. Kastren, issledovatel' paleoaziatsk (Castrén as investigator of the Paleosiasatics) p. 93-108. Discussion of his linguistic work among the Yeniseians or Ket.

I. A. P. Koshkin. Kastren, tungusoved (Castrén as investigator of the Tungus) p. 109-129. Remarks on his incidental descriptions made in 1846, of Tungus clothing, tents, dances and games, beliefs about the bear, etc.; his dissertation (1850) dealing with Tungus affixes, and his intention to learn the Manchu language.

L. B. Modzalevskii. Materialy dlia bibliografii trudov M.-A. Kastrena i literatury o M.-A. Kastrene (Materials for a bibliography of Castrén's works and bibliography of the literature about Castrén) p. 130-41.

This volume is reviewed extensively in *M. A. Castrén's memory in Russia* by Kai Donner, 1932, q. v. **Copy seen:** DLC.

**21136. CASTRÉN, MATTHIAS ALEXANDER, 1813-1852.** Samojedische Volksdichtung; gesammelt von M. A. Castrén, herausgegeben von T. Lehtisalo. Helsinki, Suomalais-ugrilainen Seura; 1940. xxv p., 350 p. (Suomalais-ugrilainen seura. Toimituksia, v. 83) **Title tr.:** Samoyed folklore collected by M. A. Castrén, edited by T. Lehtisalo.

These materials were collected by Castrén during his two journeys of 1842-44 and 1845-49. After his untimely death in 1852, only a small part of them was published in 1855 by A. Schiefner as an appendix to M. A. Castrén's posthumous *Wörterverzeichnisse aus den Samojedischen Sprachen*. The present is the complete edition, offering both Yurak and Ostyak-Samoyed songs. Among the 19 Yurak texts are hero, narrative, and drunkenness songs, a shaman's song, a lamentation, and a so-called singing story. Among the Ostyak-Samoyed songs, the four longer ones are hero songs, the other four rather fragmentary. **Copy seen:** DLC; InU.

**CASTRÉN, MATTHIAS ALEXANDER, 1813-1852,** see also Kannisto, A. *Wörterverzeichnis. 1913-18.* No. 23122.

**CASTRÉN, MATTHIAS ALEXANDER, 1813-1852,** see also Schiefner, F. A. *Ob izdanii sochinenii Kastrena. 1852.* No. 25949.

**21137. CASTRÉN, VILJO.** Suomen vesivoimat. (Teknillinen aikakauslehti, 1938. v. 28, no. 10, p. 375-84, maps, table) **Title tr.:** Water power in Finland.

"The author describes the geographical and meteorological fundamentals of the water-power development in Finland, the situation and relative altitudes of lake districts, the amount of rainfall, snow and evaporation and the resultant hydrological phenomena". The article treats the country as a whole, including data on the far North. Power stations and percentage of water-power utilization and general coordination plans are described. Summary in English.

**Copy seen:** DLC.

**21138. CASWELL, JOHN EDWARDS, 1913-** . Materials for the history of arctic America. (Pacific historical review, Aug. 1951. v. 20, p. 219-26)

Review of basic source materials for Alaska and the Canadian Arctic, mentioning the locations in the United States where these publications, or whole collections, are housed.

**Copy seen:** DLC.

**21139. CASWELL, JOHN EDWARDS, 1913-** . The utilization of the scientific reports of United States arctic expeditions 1850-1909. Stanford University, July 1951. 304 p. (*Its:* Technical report no. 2)

"The developments from the work of arctic expeditions are presented by subject field in a series of essays, based on original manuscripts, archives, and government reports. The basic subject fields covered are geography, hydrology, meteorology, geology, magnetic observations, zoology, botany, and anthropology. The scientific accomplishments of specific expeditions are recounted in detail. The origin of popular concepts of the Arctic is traced through an examination of the literature concurrent with the expeditionary era."—SIPRE. Bibliography (250 items). For part 1 (narrative introduction) of this study, see *Arctic Bibliography*, No. 2930.

**Copy seen:** DLC (Technical Info. Div.)

**CATALOGUS INSECTORUM SUE-  
CICA, I-XII, see**

Tjeder, B.: Catalogus . . . I, Neuro-  
ptera and Mecoptera. No. 26732.

Forsslund, K. H., & B. Tjeder: Cata-  
logus . . . II, Trichoptera. No. 21879.

Nordström, F.: Förteckning . . . III,  
Macrolepidoptera. No. 24714.

Ander, K.: Catalogus . . . IV, Odo-  
nata; V, Orthoptera. No. 20190, 20191.

Benander, P.: Förteckning . . . VI,  
Microlepidoptera. No. 20568.

Ossiannilsson, F.: Catalogus . . . VII,  
VIII, Hemiptera. No. 24884, 24885.

Brinck, P. S. V.: Catalogus . . . IX,  
Anoplura; X, Plecoptera. No. 20899,  
20900.

Ringdahl, O.: Catalogus . . . XI, Dip-  
tera. No. 25544.

Ossiannilsson, F.: Catalogus . . . XII,  
Hemiptera. No. 24886.

**CAULDER, J. A., see Savile, D. B. O., &  
J. A. Calder.** Notes on flora Chesterfield  
Inlet. 1952. No. 25898.

**CAWTHORPE, J., see Kark, R. M., &  
others.** Observ. mobile arctic force.  
Health. 1948. No. 23138.

**21140. CEDERGREN, ISRAEL GÖSTA  
ROBERT, 1888- .** Försök till en in-  
sektgeografisk indelning av Svenska skal-  
baggar. (Entomologisk tidskrift, 1923.  
Årg. 44, häft. 2, p. 147-57) **Title tr.:**  
An attempt at geographic division of  
Swedish beetles.

**Contains** a general survey of geo-  
graphic distribution of beetles (Coleop-  
tera) in Sweden and an attempt to sub-  
divide them into various natural groups  
(southern, coastal, forest, etc.) including  
northern (Swedish Lapland and adjoining  
region) and bipolar species.

**Copy seen:** MH-Z.

**21141. CEDERSTROM, DAGFIN  
JOHN, 1908- .** Summary of ground-  
water development in Alaska, 1950.  
Washington, D. C., 1952. iii, 37 p.  
fold. map, tables. (U. S. Geological  
Survey. Circular 169) Process printed.

**Contains** discussion of present and  
potential ground water development in a  
large number of localities throughout  
Alaska. Anchorage, Palmer and Fair-  
banks have the only extensive develop-  
ment of wells at the present time. Data  
on springs and wells, including chemical  
analyses of the water geologic setting  
and present water supplies of each  
locality, are given.

**Copy seen:** DGS; DLC.

**21142. CHABLIN, compiler.** Formy  
zhilishch i poseleni u narodov V. Rossii.  
(Kazan. Universitet. Obschestvo ar-  
kheologii, istorii i étnografii. Izvestiia,  
1894. t. 11, p. 252-60) **Title tr.:** Forms  
of dwellings and settlements among the  
peoples of eastern Russia.

**Contains** descriptions (reprinted from  
various works) of dwellings of Kam-  
chadals (p. 254-56), Kurils and Koryaks  
(p. 256-57), and Chukchis (p. 257-60).

**Copy seen:** DLC; InU.

**21143. CHAIANOVA, L. A.** Pitanie  
belomorskoï sel'di; po materialam 1932  
g. (In: Sbornik N. M. Knipovicha,  
1939, p. 279-99, illus., fold. table) **Title  
tr.:** Food of the White Sea herring;  
from materials collected in 1932.

**Contains** the results of a study of the  
food and feeding habits of this herring  
from 11 coastal fisheries in Kandalaksha  
Bay. A list of plankton organisms found  
in the stomachs (crustaceans, especially  
copepods, the chief component) is given,  
also data on intensity of feeding; compar-  
ison is made of the herring food with com-  
position of plankton taken simultaneously  
at the same place. Summary in English.

**Copy seen:** MH-Z.

**21144. CHALLENGER, ERNEST R.,  
and H. H. CARTER.** Iceberg census of  
Baffin Bay. (In: U. S. Coast Guard,  
International ice observation and ice  
patrol service in the North Atlantic  
Ocean season of 1948. Pub. in: U. S.  
Coast Guard Bulletin, 1950. no. 34, p.  
16-18, 5 fold. charts)

**Contains** report on observations made  
during nine flights July 11-30, 1948 of a  
PBIG aircraft, supported by the  
U.S.C.G.C. Ingham. This was the  
second of a series of annual iceberg  
investigations planned to study the  
length of the period of travel time re-  
quired for a berg to move from its glacier  
ford to the Grand Banks of Newfound-  
land. The first investigation was carried  
out in the summer of 1940 by the cutter  
Northland, then the program was aban-  
doned till after World War II.

**Copy seen:** CaMAI; DLC.

**21145. CHAMBERLAIN, ALEXANDER  
FRANCIS, 1865-1914.** Aleuts. (In:  
Hastings, J., ed. Encyclopaedia of reli-  
gion and ethics, 1908. v. 1, p. 303-305)

**Contains** sketch of the Aleut culture,  
social and religious rites and festivals,  
traditional lore, etc.

**Copy seen:** DLC.

**21146. CHAMBERLIN, RALPH VARY, 1879-** . On some centipeds from Northern Alaska. (Entomological news, Jan. 1949. v. 60, p. 12-15)

*Contains* descriptions of one new genus *Escimobius* and two new species, *E. cryophilus*, and *Arebius integrior* from the north front of the Brooks Range; mention of a third species from that location (68°20' N. 151°30' W.) and an unidentified *Oabius* sp. from Whitehorse, Yukon Territory. List of four species from near, or north of, the Arctic Circle in the Yenisey River region, two from Pitlakeay (Vega Expedition), and another from Chukotsk Peninsula, is added.

*Copy seen:* DSI-M.

**21147. CHAMBERLIN, RALPH VARY, 1879-** , and **W. IVIE.** The spiders of Alaska. Salt Lake City, Univ. of Utah, 1947. 103 p. plates 1-11. (Utah University. Bulletin, 1947. v. 37, no. 10. (Biological ser. v. 10, no. 3))

*Contains* seven lists of spiders common to Alaska and other regions, a list of species known only from Alaska (68, incl. 41 new), a check list of Alaskan species; systematic summary and a systematic list of 247 species (in 109 genera) including diagnoses of 42 new species collected by Dr. Joseph C. Chamberlin in Alaska during the summer seasons of 1943-45, with synonyms, measurements, localities and index of all forms.

*Copy seen:* MH-Z.

**21148. CHAMBERLIN, ROLLIN THOMAS, 1881-1948.** Glacier mechanics. (American alpine journal, 1940. v. 4, p. 40-53, 15 plates)

*Contains* discussion and description of processes involved in glacier motion and resultant crevasses, bands, thrusts, internal distortion, and surface features in general.

*Copy seen:* DGS.

**21149. CHAMPY, CHRISTIAN, and R. COUJARD.** Localisation et accélération par le froid des névrites de l'avitaminose B<sub>1</sub>. (Académie des Sciences, Paris. Comptes rendus, jan. 22, 1940. t. 210, p. 150-52) *Title tr.:* Localization and acceleration of production of B<sub>1</sub> avitaminotic neuritis under influence of cold.

*Contains* a report on experiments with pigeons and chickens kept on a vitamin B-free diet; exposure of the feet to low temperatures (0° C. to -8° C.) accelerated the appearance of the symptoms.

These as well as a comparative study of nervous lesions are presented.

*Copy seen:* DLC.

**21150.CHANTELOU, JENS-FRED. ERIK, 1893-** . Geodaeterne i Grønland. (Grønlandsposten, marts 1947. Aargang 6, nr. 2, p. 35-39, illus.) *Title tr.:* The geodesists in Greenland.

*Contains* description of the scope and type of work carried out by the Danish Geodetic Institute since 1928 in Greenland, illustrated by a survey of the activities in summer 1946.

*Copy seen:* DLC.

**CHAPMAN, HOWARD,** *see* Arthur, E. R., & others. Moose Factory. 1949. No. 20329.

**21151. CHAPMAN, Mrs. OLIVE MURRAY.** Across Lapland with sledge and reindeer. New York, Dodd Mead & Co., 1932. 5 p. l., xiii-xiv p., 1 l., 212 p. plates (part col.), sketch map.

Originally published by John Lane, London 1932; new ed. 1949 (164 p.); also pub. by Penguin books, Harmondsworth, Eng. 1939 (183 p.)

*Contains* narrative of the author's trip to study the nomad Lapps under winter conditions, traveling from Hammerfest to Bossekop, Karasjok, Kautokeino, Karesuando, Soppero, Kiruna, Abisko and Narvik, during Mar.-May 1931. Description is given of Lappish customs, habitations, costumes, physical types, way of life, etc., noting particularly regional differences in Swedish, Finnish and Norwegian Lapps, nomad and settled communities. The annual Lapp market at Bossekop, Easter celebration at Karasjok, sledges, reindeer herding and driving are treated in detail. Penetration of Swedish and Norwegian influence in Lapland by schools, courts, church, etc. is noted. Author's photographs and water-color sketches embellish the book.

*Copy seen:* DLC (1932, 1939, 1949 editions).

**21152. CHAPMAN, SYDNEY.** Theories of the aurora polaris. (Annales de géophysique, Apr./June 1952. t. 8, no. 2, p. 205-225)

*Contains* a presentation of the neutral ionized stream (or gas) hypothesis of magnetic storms and auroras, as proposed by the author and Ferraro, and of a similar theory developed by Alfvén. The account is preceded by an introductory note on Birkeland's ideas (shared earlier

by the author) on the charged particle nature of these streams emanating from the sun, and the refutation of this theory. Bibliography (12 items).

**Copy seen:** DGS.

**21153. CHAPMAN, WILBERT McLEOD, 1910-** . The latent fisheries of Washington and Alaska. (California fish and game, Oct. 1942. v. 28, p. 182-98. Issued as: U. S. Fish and Wildlife Service. Fishery leaflet 95, Oct. 1944)

Contains discussion of "those fisheries which can be depended upon to produce more heavily," areas where they can be developed and means of their exploitation. Includes for Alaska: crab, trout, cod, pollack, flounder, rock and black cod. Bibliography (8 items)

**Copy seen:** DI.

**21154. CHARCOT, JEAN-BAPTISTE AUGUST ÉTIENNE, 1867-1936.** À la recherche du *Latham-47*. (Société d'Océanographie de France. Bulletin, mai-juil. 1929. Année 9, p. 865-75, 881-94, 6 chart diags.) **Title tr.:** On the search for the *Latham-47*.

Contains discussion of the current system and ice conditions of Greenland Sea especially off the East Greenland coast, with an account of the movements and ice encounters of the *Pourquoi-Pas?* summer, 1928, in its efforts to aid in the search for the Amundsen-Dietrichsen seaplane (lost during the search for Noble Expedition). This paper was also published in the author's *La Mer du Groenland (Croisières du Pourquoi-Pas?)*, Paris, 1929 (see *Arctic Bibliography*, No. 3006).

**Copy seen:** DI.

**21155. CHARLES, D. A. H.** Hydrographic survey operations of the *Algerine* in 1950. (Arctic circular, Nov. 1951. v. 4, no. 5, p. 65-71)

Contains account by officer-in-charge of the survey of work at Port Burwell and Frobisher Bay from the chartered motor vessel *Algerine* during June-Oct. 1950; remarks on ice and weather conditions, progress of the triangulation, soundings and tide measurements, etc., from results of which, three charts: (5405 Port Burwell and approaches, 5516 Koojesse Inlet and approaches Culbertson Island to Koojesse Inlet, and 5513 Frobisher Bay northwestern part) will be published by the Canadian Hydrographic Service.

**Copy seen:** CaMAI; DLC.

**21156. CHARLES, POWELL.** Testimony from Hydaburg on fish traps. (American Indian, 1948. v. 4, no. 3, p. 45-47)

Contains excerpts from testimony of the author, a Haida Indian, in "hearings on proposed amendments to the regulations for the protection of the commercial fisheries of Alaska, Washington, D. C. Feb. 25, 1946." Contrasts traditional Indian fishing methods with those of white man's commercial fishing, showing how the latter depletes the salmon streams. States Indians' case against fish-traps, and especially against commercial fisheries' monopoly on their use.

**Copy seen:** DLC.

**CHARLES CAMSELL INDIAN HOSPITAL,** Edmonton, Alta., see Falconer, W. L. Chas. Camsell Indian hospital. 1950. No. 21737.

**CHASE, EDWIN B.,** see Manville, I. A., & E. B. Chase. Influence nutritional anemia animals low temp. 1937. No. 24174.

**21157. CHATELAIN, EDWARD F.** Bear-moose relationships on the Kenai Peninsula. (North American Wildlife Conference. 15th, Mar. 6-9, 1950, San Francisco. Transactions, 1950. p. 224-34)

Contains report on a study of bear predation on moose, especially calves, carried out on the Kenai National Moose Range during July-Sept. 1948 and May-June 1949. Bear droppings were collected and analyzed, and the author in this paper discusses the habits, food materials and eating of moose calves as indicated from the analyses. Bibliography (5 items).

**Copy seen:** DLC.

**CHATELAIN, EDWARD F.,** see also Scott, R. F., & others. Status of the Dall sheep & caribou in Alaska. 1950. No. 25998.

**21158. CHEBOKSAROV, N. N.** K voprosu o proiskhozhdenii narodov ugrofinskoĭ ĭazykovoi gruppy. (Sovetskaiâ étnografiâ, 1952, no. 1, p. 36-50) **Title tr.:** On the question of the origin of peoples of the Finno-Ugric linguistic group.

Contains a review of theories concerning the origin of the Finno-Ugric peoples, based on the anthropological considerations. The works of Finnish and Estonian scholars are sharply criticized, because they have not emphasized

the Slavonic influence on the Finno-Ugric peoples. The theories of N. I. A. Marr are also considered and stated to be "outdated."

**Copy seen:** DLC.

**21159. CHEBOTAREV, A. I.** Ledovyy rezhim rek. (In his: Hidrologiya sushi i rechno stok, Leningrad, Gidrometeorologicheskoe Izd-vo, 1950. p. 166-76, incl. illus. maps) **Title tr.:** The ice regime of rivers.

"The beginning of winter is characterized by air temperatures below 0° C. and the appearance of ice crystals in river waters. The formation of river ice and its development into a continuous ice cover, frazil and anchor ice, and spring breakup on various U.S.S.R. rivers are discussed. Two maps indicate dates of ice cover formation and spring breakup for rivers in European U.S.S.R."—SIPRE.

**Copy seen:** DLC.

**21160. CHEFRANOV, SERGEY VASIL'EVICH.** Geografiya SSSR. Uchebnik dlia 7 klassa semiletnei i srednei shkoly. Izd. desiatoe. Uverzhden Ministerstvom prosveshcheniya RSFSR. Moskva, UCHPEDGIZ, 1951. 200 p. illus. incl. text maps, 4 fold. maps in pocket. **Title tr.:** Geography of the U.S.S.R. A textbook for the 7th grade of seven-year schools and high schools. 10th edition. Approved by the Ministry of Education R.S.F.S.R.

Contains concise and comprehensive presentation (at the junior college level) of the essentials of the physical and economic geography of U.S.S.R. Short chapters on the seas, relief, mineral resources, climate (brief general summary of the climatic characteristics of the U.S.S.R.: temperature, precipitation, etc., and more specific description of the climate of the Arctic, subtropical areas and the monsoon climate of the Far East), rivers and lakes, soils, vegetation, etc.; followed by more detailed treatment of European and Asiatic U.S.S.R. in 13 regions. Sections dealing with arctic areas include: Arctic Ocean, its branches and Northern Sea Route (p. 5-7); tundra and taiga (p. 32-37); northern part of European Russia (p. 54-68) northern areas of western and eastern Siberia (p. 139-62), and the Far East (p. 162-74). Previous editions appeared: 6th in 1947, 5th in 1946, 3rd in 1940.

**Copy seen:** DLC.

**CHEKANOVSKIY, ALEKSANDR LAVRENT'EVICH, 1832-1876, see also Toll,**

E. V. v. O rasprostraneni kembrifskikh otlozhenii. 1895. No. 26758.

**21161. CHEKIN, V. I. A.** Chto predokhranayet narodnosti Krafnego Severa ot tsyngi. (Priroda, 1950. god 39, no. 10, p. 53) **Title tr.:** What protects the peoples of the far North from scurvy?

Contains a popular discussion of vitamins in general and vitamin C in particular. Natives of arctic U.S.S.R. are claimed (on the basis of the author's observations of natives of Bol'shezemel'skaya Tundra) to cover their need in vitamin C by eating raw meat of the reindeer and drinking its blood. Since cattle have a very low vitamin C content, this idea gained little credence among experts. The author's studies however, showed that reindeer meat contains several times the amount of vitamin C as compared with that of cattle, the blood being about equal. Bibliography (6 items).

**Copy seen:** DLC.

**21162. CHEKIN, V. I. A.** Profilaktika tsyngi na Krafnem Severe. (Sovetskaya meditsina, Feb. 1952. v. 16, no. 2, p. 28-29) **Title tr.:** Prevention of scurvy in the far North.

Contains a discussion (by a physician in Komi A.S.S.R.) on the vitamin C content and antiscorbutic activity of fruits and vegetables, items absent from the diet of the people native in the North. The low vitamin C content in cattle is noted and the author's study of the content of this vitamin in reindeer reported. The blood, muscle, liver, brain, etc., of deer and cattle were examined and compared. Except for the blood, all other samples of the reindeer contained several times more vitamin C than those of cattle. This explains the ability of the natives and some travelers in the North to resist scurvy, without a fruit-vegetable component in the diet. After several months of frozen-storage, the vitamin C content of reindeer meat fell considerably.

**Copy seen:** DLC.

**21163. CHEKOTILLO, ANDREY MARKOVICH, 1886-** Ledfanye: izotermicheskie sklady. (Priroda, Jan. 1951. t. 40, no. 1, p. 41-45, incl. diagrs.) **Title tr.:** Ice isothermic warehouses.

"Economic and technical aspects of isothermic warehouses made of ice are reviewed. Information is presented on the engineering properties of ice houses built of ice blocks or by pouring and free-

ing water over the roof and walls."—  
SIPRE. Bibliography (17 items).

*Copy seen:* DLC.

**CHEMEKOV, IŬ. F.**, see Vlasov, G. M., & IŬ. F. Chemekov. Osnovnye étapý rel'efa p-ova Kamchatki. 1950. No. 27140.

**CHENEY, LEROY ALLEN, 1921-**, see U. S. Coast Guard. International ice observ. & patrol 1941, 1948. 1950. No. 26899.

**CHENEY, LEROY ALLEN, 1921-**, see also U. S. Coast Guard. International ice observ. & patrol 1949. 1951. No. 26900.

**CHENEY, LEROY ALLEN, 1921-**, see also U. S. Coast Guard. International ice observ. & patrol 1950. 1951. No. 26901.

**21164. CHEREMISINA, V. T.** K zoogeografii Barentsova moriâ. (Akademiâ nauk SSSR. Murmanskâ biologicheskâ stantsiâ. Dal'niye Zelentsy. Trudy, 1948. t. 1, p. 293-98, maps) *Title tr.:* On the zoogeography of Barents Sea.

Author discusses 300 geographical areas of this sea and also the biomass distribution. Bibliography (15 items).

*Copy seen:* DLC.

**21165. CHERNETSOV, VALERIÏ NIKOLAEVICH, 1905-**. Byt khandov i mansi po risunkam XIX v. (Akademiâ nauk SSSR. Muzei antropologii i étnografii. Sbornik, 1949. t. 10, p. 7-33, 26 illus., incl. 6 plates) *Title tr.:* Life of the Ostyaks and Voguls from the drawings of the 19th century.

*Contains* description, with comments, of six tapestries, covered with paintings depicting the daily life of the Ostyaks and Voguls: hunting, fishing, reindeer-sledge and boat travel, camp and tents from outside and inside, etc. The paintings were done not by the natives, but by somebody who knew a little about the technique of art. Some of the paintings bear the signature of Nikolai Shakhov and were evidently done about 1849-1855. The tapestries, stored in Muzei antropologii i étnografii, originated in the Obdorsk District and have ethnographical value because of their naturalism.

*Copy seen:* DLC.

**21166. CHERNETSOV, VALERIÏ NIKOLAEVICH, 1905-**. Fratral'noe

ustroïstvo obsko-îgorskogo obschestva. (Sovetskââ étnografiâ. Sbornik statei, 1939. t. 2, p. 20-42, 8 illus.) *Title tr.:* The phratral organization of the Ob'-Ugrian society.

*Contains* study on the social organization of Voguls and Ostyaks before the coming of the Russians, of which some features have survived to the present. Each people is divided into two phratries (*mazum*), one is called *môs*, the other *pôr*; each phratry consists of several clans; members of the same phratry however, are considered to be related and may not intermarry; the totem of the *môs* phratry is the hare, and that of the *pôr*, the bear. There are two centers of cult: that of the phratry *môs* in the village of Belogorye (61° N. 68° E.) and that of the phratry *pôr* in the village of Vezhakorye (Jalp-us) on the Ob' River; the ceremonies and prayers of each are held secretly from members of the other phratry. The article includes texts of religious songs and photographic illus. of objects of cult. Summary in French. *Copy seen:* DLC.

**21167. CHERNETSOV, VALERIÏ NIKOLAEVICH, 1905-**. K istorii rodovogo stroia u obskikh ugrov. (Sovetskââ étnografiâ. Sbornik statei, 1947. t. 6-7, p. 158-83, illus.) *Title tr.:* On the history of clan organization among the Ob'-Ugrians.

*Contains* discussion of various essential features of social life of Ostyaks and Voguls: exogamy; naming of the clan (often using the name of an animal or bird, a totemistic trend); family or property marks (*tamga*) with numerous illus.; the giving of personal names to children and the idea of incarnation of an ancestor's soul; tribal cult and idols; common sacrificial and burial places (with illus.); festivals with sword dances and songs, blood revenge (examples from folklore), etc. All these are discussed as evidences of clan organization.

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**21168. CHERNETSOV, VALERIÏ NIKOLAEVICH, 1905-**. Otchet ob étnograficheskoi ékspeditsii instituta antropologii, arkhologii i étnografii Akademii nauk SSSR v Ostâko-Vogul'skii naatsional'nyi okrug (1937). (Sovetskââ étnografiâ, 1937. no. 4, p. 209-211) *Title tr.:* Report on the ethnographical expedition of the Institute for Anthropology, Archeology and Ethnography, Academy

of Sciences U.S.S.R., to the Ostyak-Vogulian national district, in 1937.

*Contains* statement of the purpose of expedition (to study customs connected with the bear cult and periodic festivals), followed by account of the author's sojourn in the villages of Khomrat, Ivdel'ia, (Jil'pil'pagel, where he attended a bear festival), Vezhakorye (Jal'pus) and Jem-Wosh, all in Berezov district. Several folkloristic texts were noted down (narratives, songs and folk beliefs); archeological objects (mostly of bronze) were studied in the local museums. Some statistical data are given on schools, collectivization, medical care, trading points, etc.

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**21169. CHERNETSOV, VALERIÏ NIKOLAEVICH, 1905-** . *Terminy sredstv peredvizheniia v mansiiskom iazyke.* (In: *Akademii nauk SSSR. Institut etnografii. Pamiaty V. G. Bogoraza, 1865-1936, pub. 1937, p. 349-65, illus*) *Title tr.:* Terms for means of communication in the Mansi [Vogul] language.

The terms for means of communication in Ob'-Ugrie languages can be divided into five basic groups: terms of (1) reindeer transportation, (2) horse-breeding, (3) locomotion on water, (4) by foot, and (5) by means of dogs. It is evidenced by the different layers of the horse-terminology in Vogul, that the Voguls are a mixture of aborigines and old Ugrie nomads.

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**21170. CHERNETSOV, VALERIÏ NIKOLAEVICH, 1905-** . *Vogul'skie skazki. Sbornik fol'klora naroda Mansi (Vogulov), pod redaktsiei i s predislaviem prof. V. G. Bogoraza-Tana. Leningrad. Gos. izdvo Khudozhestvennaia Literatura, 1935. 143 p. illus.* *Title tr.:* Vogul tales. An anthology of Mansi (Vogul) folklore, edited with a preface by V. G. Bogoraz-Tan.

*Contains* a foreword (p. 3-10, by Bogoraz) on the nature of folklore in general and that of the Mansi in particular; an introduction (p. 11-21) by Chernetsov giving (1) the circumstances of the transmitting of the tales (which he wrote down mainly in the Northern Sos'va River region in 1933) with personal data on the native recounters, and (2) an analysis of the Mansi myths and tales. This is followed by 13 tales translated into Russian by the author and illustrated by him according to Mansi (Vogul) orna-

ments and drawings. Bibliographical footnotes.

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**CHERNIAKOVSKIÏ, P.,** *see* Le Méhauté, P. J., and P. Tcherniakofsky. *Quelques considérations sur la nosologie des Esquimaux du Groenland oriental, 1931. No. 23763.*

**21171. CHERNIAVSKIÏ, G. K.** *Teplotoi raschet zhal'uznoi snegotafalki sistemy G. K. Cherniavskogo. (Arkhangel'sk. Lesotekhnicheskii institut. Sbornik nauchno-issledovatel'skikh rabot, 1934. t. 1, p. 38-42, illus.)* *Title tr.:* Heat calculation of the shutter snow-melter of the G. K. Cherniavskii system.

*Contains* a highly technical account of a snow-melting machine constructed by the author, dealing with the thermal balance and requirements of this particular type of apparatus.

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**CHERNIGOVSKIÏ, V. N.,** *see* Arkhangel'skaia, N. A., & others. *K fiziologii kholodovogo staza. 1943. No. 20305.*

**21172. CHERNIK, G. P.** *Khimicheskoe issledovanie velerita iz Khibinskikh tundr. (Akademii nauk SSSR. Doklady, seriia A, Jan.-June, 1923, p. 37-39, tables)* *Title tr.:* A chemical investigation of velerite from the Khibiny tundras.

Physical properties and chemical analysis are given.

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**CHERNOUSKAIA, E. N.,** *see* Voronkov, P. P., & others. *Osnovnye cherty gidrokhim. rezhima Barentsova moria. 1943. No. 27182.*

**CHERNOV, A. G.,** *see* Meshchaninov, I. I., & A. G. Chernov. *V. L. Komarov. 1946. No. 24303.*

**21173. CHERNOV, ALEKSANDR ALEKSANDROVICH, 1877-** . *Istoriia paleozoiskoi geosinklinali na zapadnom sklone pol'arnogo Urala. (Moskovskoe obshchestvo ispytatelei prirody. Buletén', 1937. Novaiia seriia, t. 45. Otdel geol. t. 15, vyp. 2, p. 157-60)* *Title tr.:* History of Palaeozoic geosyncline on the western slope of the polar Ural.

Attempt to trace the history of the formation of the geosyncline of the western polar Ural which goes back to the Paleozoic era (from Cambrian to Permian); the stratigraphy of Ural folding is studied on deposits in the valleys of Kozhim and Kos'ya Rivers of the Northern Ural.

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**CHERNOV, ALEKSANDR ALEKSANDROVICH, 1877-**, see also Voinova, E. V. K stratigrafii permskikh r. B. Syni-fu. 1935. No. 27159.

**21174. CHERNOV, G. A.** Arkheologicheskie nakhodki v vostochnoi chasti Bol'shezemel'skoi tundry. (Sovetskaya arkheologiya, 1951. t. 15, p. 308-324, illus., map) *Title tr.:* Archeological finds in the western part of the Bol'shezemel'skaya Tundra.

*Contains* detailed description of excavations made in 1932 at sites on the Rivers Rogovoi, Padimevis, Korotaiha, and Taru in the region roughly 67°-68°30' N. 52°-63° E. (shown on map). A total of 29 old burial places were discovered, many skulls, pieces of ornamental pottery, bronze amulets with figures of men and animals, etc., were excavated; all the objects belong to the iron age. Similar objects have been found in the graves of Ostyaks and Voguls, hence D. N. Anuchin has drawn the conclusion that these peoples lived also in the Bol'shezemel'skaya Tundra sites some 200 years ago.

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**21175. CHERNOV, NIKOLAI VLADIMIROVICH.** Tekhnologiya mekha. Pod obshchego redaktsii N. V. Chernova. Dopushcheno Ministerstvom vysshego obrazovaniya SSSR v kachestve uchebnika dlya vyzov. Moskva-Leningrad, Gosudarstvennoe nauchno-tekhnicheskoe izd-vo tekstil'noi, legkoi i poligraficheskoi promyshlennosti, 1948. 400 p., illus., tables. *Title tr.:* Fur technology. Under general editorship of N. V. Chernov. Authorized by the Ministry of Higher Education of the U.S.S.R. as a textbook for universities.

A technical-scientific monograph on a largely arctic industry, with chapters by: N. N. Aronina, L. P. Gaidarov, I. M. Lechitskii, S. A. Pavlov, and N. V. Chernov. Chapters on: the structure of the skin; chemistry of proteins; interaction of proteins and water; fur raw materials; operations of the fur processing plant; problems and methods of dyeing; further processing; properties and kinds of fur, etc. Specifically arctic furs are mainly dealt with in chap. 4 (p. 115-35) with scattered references in other chapters. Bibliography (57 items).

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**21176. CHERNOVSKIY, ALEKSEI ALEKSEEVICH, 1904-1942.** Opredelitel' lichinok komarov semeystva Tendipedi-

dae. Moskva-Leningrad, Izd-vo. Akad. nauk SSSR, 1949. 185 p., illus. (148 fig.). (Akademiya nauk SSSR, Opredeliteli po faune SSSR, no. 31) *Title tr.:* Tables for the determination of larvae of the family Tendipedidae.

*Contains* (in the general part, p. 1-43) data on external morphology of the larvae of the mosquito family Tendipedidae, their biology, economic importance, systematics and nomenclature of the larvae, gathering and cultivation, and preparation of specimens. In systematic part (p. 44-185): tables are given for the determination of the subfamilies and the larvae of 240 species found in fresh-water basins of European U.S.S.R. and Kamchatka Peninsula. Includes list of synonyms (p. 161-75) compiled by V. I. A. Pankratova; bibliography (118 items); index of Latin names.

This work was published posthumously and a bibliographical sketch of the late author, by A. A. Shtakel'berg, is given on p. 3-5.

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**21177. CHERNYSHEV, FEODOSII NIKOLAEVICH, 1856-1914.** Godovoi otchet za 1901 god. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1903, Ser. 2, chast' 40, Protokoly sasiedaniy, p. 2-15) *Title tr.:* Annual report for the year 1901.

*Contains* an annual report of the secretary of the Russian Mineralogical Society of St. Petersburg on the activity of the Society in 1901, including notes (p. 6-11) on the most important expedition of the year, that of B. A. Popov (q. v.) and his wife, N. K. Popova, to study the geography and geology of the region of the Kola Peninsula, between Lakes Noto and Imandra. A general account of the journey is given and a brief summary of its results.

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**21178. CHERNYSHEV, FEODOSII NIKOLAEVICH, 1856-1914, and N. N. IAKOVLEV.** Die Kalksteinafauna des Cap Grebeni auf der Waigatsch-Insel und des Flusses Nechwatowa auf Nowaja-Semlja. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1899. Ser. 2, chast' 36, p. 55-99, plates 6-8) *Title tr.:* Limestone fauna of Cape Gryeben' on Vaygach Island and the Nekhvatova River region of Novaya Zemlya.

*Contains* a study of limestone fauna of the Cape Gryeben' region on the south-

western coast of Vaygach Island, with descriptions of 17 species of fossil trilobites, spirifers, brachiopods and corals, of which five species are described as new to science. Descriptions are given also of eight fossil cephalopods and gastropods from the region of Nekhvatova River (flowing into Kostin Shar) on the southwestern coast of the southern Island of Novaya Zemlya. This material was brought home by the expedition of K. E. Baer and TSivolka in 1837. Remarks on the geological age and origin of various layers of this fauna are included.

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**21179. CHERNYSHEV, FEODOSII NIKOLAEVICH, 1856-1914.** Ueber die Artinsk- und Carbon-Schwämme vom Ural und vom Timan. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1899. Ser. 2, chast' 36, p. 1-54, illus., plates 1-5) **Title tr.:** On the Artinsk and Carboniferous sponges from Ural and Timan.

*Contains* descriptions of ten species of fossil sponges (five are described as new) from the Artinsk and Carboniferous deposits in the central part of the Ural Mts., including *Kazania elegantissima* and *Haplistion (?) gruenewaldti* occurring also in the Timan Ridge in northern Arkhangel'sk province.

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**CHERNYSHEV, FEODOSII NIKOLAEVICH, 1856-1914, see also Gol'tsapfel', E. Golovonogiiã zh. Timana. 1899. No. 22161.**

**CHERNYSHEVA, MARIÎA DAVYDOVNA, see Marich, M. Zhizn' i plavaniã Litke. 1949. No. 24178.**

**21180. CHERNYSHOFF, M. J.** Search for underground water in perpetually frozen areas. (American Water Works Association. Journal, May 1935. v. 27, p. 581-93, illus., diags.)

Practical advice, by a professor of mechanical engineering, on practices and methods of getting water from three known sources.

"Water has been found during the past 20 years in permafrost areas, above the permafrost in hidden and open springs, and under the permafrost layer. Subsoil waters above permafrost are formed by the infiltration of atmospheric precipitation and by condensation of moisture in frostless seasons. Hydrostatic pressure results when the ground freezes

above the permeating water. Ice fields may form when water under pressure breaks through the ground. Subsoil water is not a reliable source of water supply. Spring water usually rises to the surface from deep strata on valley slopes exposed to sunlight. The springs' head can be found by borings and underground temperature measurements. The relatively high temperature of the water causes thawing around its source. Spring water offers a more reliable supply of water than subsoil water. Artesian waters result from atmospheric moisture, and are located by borings. Artesian water often has a temperature of +3° C. and care must be taken to avoid freezing the water in the bore hole."—SIPRE.

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**21181. CHERNYSHOFF, M. J.** Water services in regions with perpetually frozen ground. (American Water Works Association. Journal, July 1930. v. 22, p. 899-911)

On the basis of experience with railroad watering, and on Russian studies of heat loss in pipes for delivering water in permafrost regions, the author describes two systems (*S* and *T*) which proved suitable and reliable for water service. He gives data on heat loss, preheating, circulation and covering of pipes and other equipment, and closes with a detailed discussion of calculation of heat loss.

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**21182. CHERNYSHOV, A. G.** Gidrologicheskiiã stant'siiã ledokola "Ermaka" v 1898 g. (Akademiã nauk SSSR. Zoologicheskiiã muzel. Ezhegodnik, 1900. t. 5, p. vi-vii) **Title tr.:** Hydrological stations of the ice-breaker *Ermak* in 1898.

*Contains* tabular data (location, depth, type of bottom surface and bottom temperature, fauna) from 18 of the hydrographic stations of the ice-breaker *Ermak* on her trial run in the summer of 1899 in Barents Sea east of Svalbard. These stations range from Malangenfjord (71° 21'N. 17°32'E.) northward to 81°N.

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**CHESNOKOVA, V. A., see Kostychev, S. P., & others. Sutochnyiã khod fotosinteza. 1930. No. 23407.**

**21183. CHETVERIKOV, SERGEI SERGEEVICH, 1800- .** Cheshuekrylyã poluostrova Iãmala, dobytyã êkspeditsieiã B. M. Zhitkova v 1908

godu. (Akademiâ nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1911. t. 16, no. 1, p. 29-36, illus.) **Title tr.:** Lepidoptera of Yamal Peninsula, collected by the expedition of B. M. Zhitkov in 1908.

Contains a Latin diagnosis of *Schoyenia simplicissima* n. sp. and critical notes on 16 species of butterflies and moths.

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**21184. CHICHERIN, TIKHON SERGEVICH, 1869-1904.** Matériaux pour servir à l'étude des Feroniens I-III. (Russkoe entomologicheskoe obshchestvo, St. Petersburg. Trudy (Horae) 1892-93, pub. 1893, t. 27, p. 452-89; (II) 1893-94, pub. 1894, t. 28, p. 366-435; (III) 1895-96, pub. 1897, t. 30, no. 3-4, p. 260-351) **Title tr.:** Materials for the study of *Feronia* I-III.

Contains in pt. I, tables for the determination of the species of coleopterous genus *Feronia* and a list of 42 species with descriptions of many new species, including *F. rubripes* from the Anadyr' River region, northeastern Siberia and *F. crenulatopunctata* from Yakutsk and Okhotsk regions. Pt. II contains descriptions of 47 species from various regions, including *F. tundrae* and *F. bungei* from Yakutsk province (Olenek and Yana River). Pt. III consists of descriptions of 56 species including *F. (Steropus) mannerheimi* and *F. (Steropus) maurusiaca*, native to Yakutsk province. Pt. IV of this paper published in 1898 does not include arctic material.

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**21185. CHICHERIN, TIKHON SERGEVICH, 1869-1904.** Mémoire sur le genre *Trichocellus* (Ganglb.) (Russkoe entomologicheskoe obshchestvo, St. Petersburg. Trudy (Horae) 1898, pub. 1899, t. 32, vyp. 3-4, p. 444-77) **Title tr.:** Memoir on the genus *Trichocellus* (Ganglb.).

Contains diagnoses of 30 species of coleopterous genus *Trichocellus*, including 14 new to science described by the author, E. Reitter and L. Bedel, with *T. marginicollis*, native to Kamchatka Peninsula and *T. mannerheimi* from the Okhotsk seacoast.

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**21186. CHICHERIN, TIKHON SERGEVICH, 1869-1904.** Note sur un nouveau genre de la tribu des Harpaliniens. (Russkoe entomologicheskoe obshchestvo, St. Petersburg. Trudy (Horae) 1898, pub. 1899, t. 32, no. 3-4, p. 601-

603) **Title tr.:** Note on a new genus of the tribe Harpalinae.

Contains diagnoses of *Harpalobrachys leroides* n. gen. et sp., native to the lower Yenisey River region and Bulun, Yakutsk region, eastern Siberia.

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**21187. CHIGIRIN, N. I.** On the concentration of calcium carbonate in the waters of the polar basin. (Akademiâ nauk SSSR. Comptes rendus (Doklady), 1938, nouv. ser. v. 19, no. 8, pp. 633-35)

Study of results from the North Pole Drifting Expedition 1937-38 and the *Sadko* Expedition of 1935, leads to conclusion that in the Arctic Basin both surface and deep waters contain an excess of calcium carbonate when compared with the Atlantic. However, they are not saturated with it.

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**21188. CHIRKOV, A. F.** Zafâs-belâk na Taymyrskom poluostrove. (Moskovskoe obshchestvo. ispytatelei prirody. Bûlleten', 1940. Otdel biol. Novââ seriâ, t. 49, vyp. 3-4, p. 211-16) **Title tr.:** The white hare in Taymyr Peninsula.

Contains author's observations on the biology of the white hare (*Lepus timidus begichevi*) made in 1931 during his exploring trip to Taymyr Peninsula, with some statistical and economic notes. Summary in French.

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**21189. CHIRKOV, I. N.** Mineralogy of Monche-Tundra. (Akademiâ nauk SSSR. Comptes rendus (Doklady), 1939, nouv. ser., v. 25, no. 2, p. 126-29, tables)

The predominant minerals in the ores studied are: pyrrhotite (up to 75 percent of the volume), magnetite (up to 10 percent), pentlandite (7-8 percent), and chalcopyrite (6-7 percent).

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**21190. CHIRKOV, I. N.** Pentlandite from the copper-nickel deposits of Monche-Tundra. (Akademiâ nauk SSSR. Comptes rendus (Doklady), 1940, nouv. ser., v. 29, no. 8-9, p. 601-603, table)

Pentlandite is stated to be one of the most important ore-forming minerals in the deposits of this part of the Khibiny (Kola Peninsula). Its physical and chemical properties and relations to other minerals are discussed.

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**21191. CHIRKOV, I. N.** Valleriite from vein deposits of sulphide copper-nickel

ores of the Monche-Tundra. (Akademiā nauk SSSR. Comptes rendus (Doklady), 1941. nouv. ser., v. 31, no. 5, p. 472-74, illus.) **Copy seen:** DLC.

**21192. CHIRKOV, V. I.** Opyt vvedeniā shipovnika v kul'turu. (Akademiā nauk SSSR. Botanicheskii institut. Trudy, seriā 5, Rastitel'noe syr'e, 1949. vyp. 2, p. 266-91, illus.) **Title tr.:** An attempt to introduce dog rose into cultivation.

Contains the results of an experimental cultivation of dog rose, as a source of vitamin C, on a plantation in Kotlass region, Arkhangel'sk province; with data on various methods of propagation and influence of mineral and organic fertilizers on the development of *Rosa cinnamomea* and *R. acicularis* and accumulation of vitamin C in their fruits.

**Copy seen:** MH-A.

**21193. CHIRVINSKIĬ, PETR NIKOLAEVICH, 1880-** . Kol'skie zhelezorudnye kvarcity. (Vserossiiskoe mineralogicheskoe obshchestvo. Zapiski, 1935. Seriā 2, chast' 64, p. 315-27, 2 plates (1 fold.) tables) **Title tr.:** Ferruginous quartzite of Kola Peninsula.

Contains results of an intensive study of the iron-bearing quartzite deposits near Murmansk on Kola Fiord, Shongul, the rivers Ura and Litsa, Loparskaya, the Lake Imandra region, and the Moncha, Volch'ya and Rebyach'ya tundras; description of the petrographic character of the rocks and quantitative mineralogical and chemical analyses; discussion of ore genesis, and indication of the ore reserves. Summary in German.

**Copy seen:** DGS.

**21194. CHIRVINSKIĬ, PETR NIKOLAEVICH, 1880-** . Ortit i ego paragenezis v kristallicheskich porodakh Kol'skogo poluoostrova. (Vserossiiskoe mineralogicheskoe obshchestvo. Zapiski, 1936. Seriā 2, chast' 65, p. 163-77, incl. tables) **Title tr.:** Orthite and its paragenesis in the crystalline rocks of Kola Peninsula.

Contains discussion of the modes of occurrence of allanite (orthite) and description of the rocks in which it occurs in the region of (1) Murmansk, (2) the Niva River, and (3) Kandalaksha; tabulated results of optical, chemical and physical properties. Summary in German.

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**21195. CHIRVINSKIĬ, PETR NIKOLAEVICH, 1880-** . Paleogidrogeologičeskii

Khibinskikh tundr. (Akademiā nauk SSSR. Izvestiā. Seriā geologicheskaja, 1939. no. 4, p. 23-43, illus.) **Title tr.:** Paleohydrogeology of Khibina tundras.

"Discusses hydro-thermal mineral formation and the formation of minerals from cold water solutions in the Khibina tundra region of Kola Peninsula."—Geological Society of America. *Bibliography and Index of Geology*, 1940. v. 8, p. 41. Summary in English.

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**CHIRVINSKIĬ, PETR NIKOLAEVICH, 1880-** . see also Akademiā nauk SSSR. Kol'skaja baza. Materialy k geokhimii Khibinskikh tundr. 1935. No. 20101.

**CHIRVINSKIĬ, PETR NIKOLAEVICH, 1880-** . see also Melent'ev, B. N., & others. Calcite in decomposed tectonic zones. 1941. No. 24283.

**CHIRVINSKY, P. N.,** see Chirvinskiĭ, Petr Nikolaevich, 1880-

**21196. CHISTIĀKOV, V. F., and others.** Sluchaĭ groz v kholodnoe vremā goda. (Priroda, Nov. 1950. t. 39, vyp. 11, p. 49-50) Other authors: B. I. Petrovskii, and G. V. Korsunskaja. **Title tr.:** Thunderstorms during the winter.

"Reports on thunderstorms at unusual times of the year: Kaliningrad on Nov. 10, 1948, Jan. 21, 1949, and March 15, 1950; Monchegorsk (Kola Peninsula) on May 17, 1950; Vladivostok region in Dec. 1949 during a blizzard. Such winter thunderstorms are not uncommon in coastal regions, but are very rare in continental or arctic localities such as the above."—*Meteorological abstracts and bibliography*, Apr. 1951. v. 2, no. 4, p. 265.

**Copy seen:** DLC.

**21197. CHITTY, HELEN.** Canadian arctic wild life enquiry, 1943-49; with a summary of results since 1933. (Journal of animal ecology, Nov. 1950. v. 19, p. 180-93, 2 fold. plates (diags., table) tables)

The enquiry which began in 1935 was discontinued as a yearly questionnaire after 1947, and the last years' and overall data are here reported. Population changes in lemmings and mice, arctic fox and snowy owl, and outbreaks of sledgedog disease are given and discussed for Northern Quebec, Northwest Territories, Canadian Arctic Islands and Baffin Island. Bibliography (32 items).

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**21198. CHITTY, HELEN.** The snowshoe rabbit enquiry, 1946-48. (Journal of animal ecology, May 1950. v. 19, p. 15-20, incl. 2 p. of map-diags.)

Data for North America, including Alaska, Yukon Territory and Northwest Territories, for 1946-7 and 1947-8. "By May 1948 recovery . . . from the sharp decline in numbers, 1942-5, was widespread over . . . the Northwest Territories . . . In the Yukon the cycle was on the downward phase, but the decline had been gradual and had not taken place at the same time throughout the area. In Alaska, rabbits had apparently not reached a peak in the two westerly areas, but in two areas near the Canadian border they had begun to disappear during 1946-7."—Author's summary.

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**21199. CHIZHOV, N. K.** Tovarovedenie pushno-mekhovogo syr'ya i gotovoi produktsii, izd. 2, perer. Moskva, Gos. nauchno-tekhn. izd-vo legkoj, tekstil. i poligr. promyshl., 1948. 175 p., 55 illus. **Title tr.:** The science of raw materials and manufactured products of down and fur, 2d revised ed.

Contains chapters on the raw materials of the industry, equipment in trapping and fur farming; the animals: beaver, squirrel, fox, seal, etc.; structure and commercial properties of pelts; treatment, preparation and conservation of pelts; trade names, marks and classification of pelts; kinds and trademarks of half-finished products; finished products and their use.

**Copy seen:** DLC.

**21200. CHODZIDŁO, TEOFIL.** Die Familie bei den Jakuten. Freiburg in der Schweiz, Paulus-Verlag, 1951. 462 p. fold. map. (Internationale Schriftenreihe für soziale und politische Wissenschaften. Ethnologische Reihe, Bd. 1) **Title tr.:** The family among the Yakuts.

Contains monographic treatment (dated 1945) of the social organization and family life among the Yakuts: choosing of a mate (woman has little to say), marriage customs, loose sexual attitude before the marriage, bride price and dowry, marriage ceremonies, the position of husband and wife in the family (patriarchal status, the wife working the harder), polygamy, the rearing of children, causes for divorce (sterility of wife is the most legitimate ground for both polygamy and divorce), the position of widows and unmarried girls.

An introductory chapter (p. 23-39) outlines the geography, sociology and religion; the Yakut A.S.S.R. has an area of 4,023,307 sq. km. and over 220,000 inhabitants (87 percent Yakuts); the "republic" is divided into seven districts (*okrug*): Yakutsk, Viluysk, Olekminsk, Verkhoyansk, Aldan, Bulun and Kolymsk (in the first three, Yakuts comprise 94.1 per cent of the population); each district, except Kolymsk, consists of several *ulus*, the latter consisting of many *nasleg's* which again consist of many clans (*aga-usa*), and finally the clan is composed of several individual families (*kargan*). The last chapter (p. 400-421) deals with the origin and former homeland of Yakuts, based on linguistic, anthropological, archeological and ethnographic (legends of origin) research: the Yakuts represent the oldest branch of the Turcic linguistic family, are composed of three ethnic groups, the Urianghai, Sakha and Khoro, and came from the region of the Upper Lena about 700 years ago, driven out of their old homeland by Kirkhiz and later pushed further north by Buryats. Originally a horse-breeding people, the Yakuts of today are going over to cattle breeding (the proportion of horses and cattle is 1:3).

Extensive indexes (personal, ethnographic-geographic) and bibliography (100 items) also an appraisal (p. 40-53) of the ethnographic sources of the study are included.

**Copy seen:** MH-P.

**21201. CHODZIDŁO, TEOFIL.** Garncearstwo u Jakutów. (Anthropos, Ephe-meris, 1946-49. Bd. 41-44, p. 299-313, 7 illus., map) **Title tr.:** Yakut pottery.

Contains account of two methods used by the Yakuts for making pots of clay: (1) by adding strips of clay to a previously made clay disc serving as bottom, and (2) by shaping the pot directly from a lump of clay. Pottery-making was known to the Yakuts' ancestors in the Baykal region, between 800 and 1200 A. D. The ornamentation of excavated clay vessels is similar to the present Yakut decorative motives. Summary in English. **Copy seen:** DLC; InU.

**21202. CHODZIDŁO, TEOFIL.** Mieszkanie u Jakutów. (Anthropos, Ephe-meris, 1940-41. Bd. 35-36, p. 841-62, 8 illus.) **Title tr.:** Dwellings among the Yakuts.

Contains account of native names and forms of dwellings, material of which

they are made, distribution and use of space, etc. Summary in German.

**Copy seen:** DLC; InU.

**21203. CHODZIDŁO, TEOFIL.** Spüren des Totemismus bei den Jakuten? (Anthropos, Ephemeris, 1946-49. Bd. 41-44, p. 359-65) **Title tr.:** Traces of totemism among the Yakuts?

Contains discussion and author's conclusion that there is no class-totemism among the Yakuts; also bibliography.

**Copy seen:** DLC; InU.

**CHOLODKOVSKY, N. A.,** see Kholodkovskii, Nikolai Aleksandrovich, 1852-1921.

**21204. CHRIST, JOHN HENRY, 1896-**  
Farming in the land of the midnight sun. (Soil conservation, Feb. 1951. v. 6, p. 147-49, 152, illus.)

Contains information on the soil reconnaissance of the Susitna and Matanuska valleys in 1914 and 1916 and subsequent soil studies of these and other areas up to 1950; brief presentation of the agricultural settlement of Alaska; special features of Alaskan agriculture in relation to the soils, climate, elevation limits; rotation and desirable types of crops, livestock raising, techniques peculiar to the latitude; dangers of erosion, reference to the U. S. Soil Conservation Service work and laws.

**Copy seen:** DGS.

**21205. CHRISTENSEN, CARL FREDRIK ALBERT, 1872-1942.** On the systematic position of *Polypodium vulgare*. (Dansk botanisk arkiv, 1926-28, pub. 1928. Bd. 5, nr. 5, p. 1-10, illus.)

Contains a taxonomic study of a fern, *Polypodium vulgare*, and related species, its systematic position and data on distribution, including Scandinavia (up to 70° N. in Norway), Alaska (*P. vulgare* var. *occidentale*) and Labrador.

**Copy seen:** MH-A.

**21206. CHRISTENSEN, K. N.** Landbrug. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 2, p. 83-94, illus.) **Title tr.:** Agriculture.

Describes the sheep raising and farming carried on in southwest Greenland.

**Copy seen:** DSI-M.

**21207. CHRISTENSEN, N. O., and T. LLOYD.** Elections in Greenland. (Arctic circular, Dec. 1951. v. 4, no. 6, p. 84-85) Reprinted in *Arctic*, Mar. 1952. v. 5, no. 1, p. 58-59.

Summary of constitutional changes in administration of West Greenland enacted by the Danish Parliament May 27, 1950, and of first elections (by direct adult suffrage) for the Provincial (Grønlands Landsraad) and District Councils held June 29, 1951, with election returns for the Landsraad.

**Copy seen:** CaMAI; DLC.

**21208. CHRISTIANI, AXEL, 1881-1930.** Om fund af gejrfugleknogler paa Vardø, Norge. (Dansk ornithologisk forening. Tidsskrift, 1916-18, pub. 1917. Årg. 11, hefte 1, p. 1-4, illus., plate I) **Title tr.:** On the find of the bones of the razor-billed auk in Vardø, Norway.

Contains account of fossil remains of some birds found in the earth near Vardø (70°22' N. 31°07' E.), including the bones of the razor-billed auk, belonging probably to the iron age in Norway; with discussion of climate and bird fauna of that geological period.

**Copy seen:** MH-Z.

**21209. CHRISTIANI, AXEL, 1881-1930.** Om nogle jordfundne knogler fra Vardø i Norge. (Dansk ornithologisk forening. Tidsskrift, 1929. Årg. 23, hæft. 3-4, p. 79-83, plate I) **Title tr.:** On some bird bones found in the earth at Vardø, Norway.

Contains the determination of 24 species of birds, the bones of which were found in the earth near Vardø in Finnmark, northern Norway, and apparently belong to the earlier or later iron age in Lapland.

**Copy seen:** MH-Z.

**21210. CHRISTIANI, AXEL, 1881-1930.** Rejsbreve fra Norge. (Dansk ornithologisk forening. Tidsskrift, 1914-15, pub. 1915. Årg. 9, hæft. 4, p. 251-56, illus.) **Title tr.:** Travel notes from Norway.

Contains a general account of the author's journeys to northern Norway in the summers of 1913-15, with notes on birds observed in the vicinity of Bossekop, Altenfjord region and Vardø.

**Copy seen:** MH.

**21211. CHRISTIANSEN, REIDAR TH.** Et eventyrs krokveier. (Studia Septentrionalia, 1945. v. 2, p. 69-83) **Title tr.:** The crooked path of a fairy tale.

The Lapp traditions received contributions from neighbors of different nationalities, and their folk tales, therefore, are of unique interest in studying the migration of tales. Investigation of the tale type Aa-Th. 328 is presented here.

**Copy seen:** DLC; InU.

**2122. CHRISTIANSEN, REIDAR TH.** Die finnischen und nordischen Varianten des zweiten Merseburgerspruches; eine vergleichende Studie. Hamina. Suomalaisen Tiedeakatemian Kustantama, 1914. vi, 218 p. (Folklore Fellows. FF communications no. 13) **Title tr.:** The Finnish and Nordic variants of the second charm from Merseburger; a comparative study.

**Contains** discussion on the Lapps. They were considered by old authors (Adam von Bremen, Saxo, and others) as very great magicians, an opinion prevalent today among neighbors of the Lapps. Several authentic descriptions survive of their shamanistic performances and divinations using the magic drum, and a few magic songs have been recorded among them. Genuine magic formulas or charms are very rare however, and most probably these are not Lappish in origin.

**Copy seen:** DLC; InU.

**CHRISTIANSEN, REIDAR TH.,** see also Bergsland, K., & R. T. Christiansen. Norwegian research Lapps. 1950. No. 20624.

**21213. CHRISTOPH, HUGO THEODOR, d. 1893.** Bemerkungen zu einigen in Labrador vorkommenden Schmetterlingen. (Stettiner entomologische Zeitung, 1858. Bd. 19, no. 7-9, p. 307-315) **Title tr.:** Notes on some butterflies occurring in Labrador.

**Contains** Latin diagnoses of *Aspilates spuraria*, *Crambus trichostomus* and *C. labradoriensis* n. spp. and critical notes on 26 other butterflies and moths native to Labrador. Includes (in the footnotes) some critical and descriptive notes by the editor of this paper.

**Copy seen:** MH-Z.

**21214. CHRISTOPH, HUGO THEODOR, d. 1893.** Lepidoptera nova faunae Palaearcticae. (Deutsche entomologische Zeitschrift Iris, 1893. Bd. 6, p. 86-96) **Title tr.:** Lepidoptera new to Palaearctic fauna.

**Contains** a list of 70 new species and varieties of butterflies and moths native to palaearctic regions, with Latin diagnoses and data on distribution; includes five species from the Vilyuy River region of Yakutia.

**Copy seen:** MH-Z.

**21215. CHUBRIK, G. K.** Lichinochnye stadii sosal'shehika *Fellodistomum fellis* Nicoll 1909 iz bezpozvonnochnykh Barentsova moria. (Zoologicheskii zhurnal, 1952. t. 31, vyp. 5, p. 653-58, illus.)

**Title tr.:** Larval stages of *Fellodistomum fellis* Nicoll 1909 in invertebrates of the Barents Sea.

**Contains** a study of the life cycle of a marine trematode, *Fellodistomum fellis*, the larvae of which are found in a mollusc, *Nucula tenuis* (1st host), then in a brittle star, *Ophiura sarsi* (2nd intermediary host) and finally in the intestine and gall bladder of some fishes of the Barents Sea.

**Copy seen:** MH-Z.

**21216. CHUBRIK, G. K.** Zhiznennyi tsikl *Rhodotrema quadrilobata* Basikalova, 1932, parazitiruushchei v kishchechnike kambalovykh ryb. (Akademiia nauk SSSR. Doklady, 1952. Novaya seriia. t. 83, no. 6, p. 981-83, illus.) **Title tr.:** The life cycle of *Rhodotrema quadrilobata* Basikalova, living parasitically in the intestine of some flatfishes.

**Contains** data on the life cycle of *Rhodotrema quadrilobata* (described by A. Basikalova from the intestine of some flatfishes of the Barents Sea) the larvae of which were found by the author in the intestine of two molluscs, *Solariella varicosa* and *S. obscura*, living in the littoral zone of the Barents Sea.

**Copy seen:** MH-Z.

**21217. CHUGUNOV, S. M.** K lepidopterofaune Tobol'skogo severa. (Russkoe entomologicheskoe obozrenie, 1925. t. 19, vyp. 1, p. 69-71) **Title tr.:** Contribution to the Lepidoptera fauna of northern Tobolsk.

**Contains** a list of 39 species of butterflies and moths (Lepidoptera) collected by the author in 1915 near Obdorsk (66°31' N.) and by other collectors in various sections of Tobolsk province. Summary in French.

**Copy seen:** MH-Z.

**21218. CHULKOV, I. P.** Nekotorye dannye o roli nervnoi sistemy v patogeneze i terapii otmorozhenii. (Khirurgiia, May 1949. t. 19, no. 5, p. 62-67, 7 illus.) **Title tr.:** Some data on the role of the nervous system in the pathogenesis and therapy of frostbite.

**Contains** a study on the effects of novocaine blockade on frozen extremities of cats during the pre-reactive and reactive periods. An evaluation of the "zonal" and "envelope" methods of blockade is presented as well as information on the histological changes taking place in the kidney, adrenal gland and nervous system as a result of local freezing.

**Copy seen:** DLC.

**21219. CHUMAKOV, A. A., and others.** Novoe mestorozhdenie stenstrupina v Lovozerskikh tundrach. (Akademiia nauk SSSR. Doklady, 1947. t. 56, p. 405-407) Other authors: I. V. Bel'kov and I. D. Batiava. *Title tr.:* New deposits of steenstrupine of the Lovozera Tundra.

"Discusses the occurrence and mineral relations of steenstrupine found in pegmatite dikes of the Lovozero Tundra, Kola Peninsula."—Geological Society of America, *Bibliography and index of geology*, 1950. *Copy seen:* DLC.

**21220. CHUMAKOV, A. A., and others.** Vezuvian iz zapadnykh Kelv (na Kol'skom poluostrove). (Akademiia nauk SSSR. Doklady, 1948. t. 61, p. 1099-1101, illus.) Other authors: A. I. Morozov and I. V. Ginzburg. *Title tr.:* Vesuvianite from the Western Keiv region, Kola Peninsula.

Description of the physical and chemical properties of what is considered a metasomatic mineral replacing plagioclase of the anorthosite, which occurs in the zone of contact of an anorthosite xenolith and alkaline granite.—Geological Society of America, *Bibliography and index of geology*, 1951.

*Copy seen:* DLC.

**21221. CHURAKOV, A. N., editor.** Vladimir Afanas'evich Obruchev. Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1946. 88 p. port. (Akademiia nauk SSSR. Materialy k biobibliografii uchennykh SSSR. Seriia geologicheskikh nauk, vyp. 6)

Contains important dates of the life and scientific activity of the geologist, Acad. V. A. Obruchev, p. 3-5; a characterization of his work, p. 6-15; literature about him (48 items); bibliography of his publications (643 items), compiled by V. V. Obruchev and N. M. Asafova; index of personal and geographic names and subjects, p. 67-86. Includes some papers resulting from Obruchev's work in northern regions of the U.S.S.R., especially Siberia. *Copy seen:* MH.

**21222. CHURCH, JAMES EDWARD, 1869-** The evolution of snow-melt by dyes and drip-pan. (International Geodetic and Geophysical Union. Association of Scientific Hydrology. Assemblée générale d'Oslo, 1948. Procès-verbaux, t. 2. Travaux de la Commission de la Neige et des Glaciers, pub. 1950? p. 115-17, illus.)

Brief report on use of Fuchsine dyes and snow sampler "to determine the finer points in the melting and freezing of snow," and on the microclimate of the snowfield. *Copy seen:* DGS.

**21223. CHURCH, JAMES EDWARD, 1869-** Temperature of arctic soil and water. (Michigan. University. Scientific series, 1941. v. 6, no. 2, p. 46-59, illus., 11 tables)

"Results of observations made by the Greenland Expedition of the University of Michigan; mainly water temperature, some data for soil temperature."—Meteorological abstracts and bibliography, Mar. 1951. v. 2, no. 3, p. 222. Previously listed as part of *Arctic Bibliography* No. 3167.

*Copy seen:* DLC.

**CHURCH, JAMES EDWARD, 1869-** see also American Geographical Society, N. Y. Readings in the geography of N. America. 1952. No. 20178.

**CHURCH OF ENGLAND IN CANADA,** see Flint, M. S. Arctic, land of snowmen. 1948. No. 21844.

**21224. CIVIL ENGINEERING.** New army building is designed for use in arctic climates. (Civil engineering, Sept. 1950. v. 20, p. 618, illus.)

"For sheltering troops in severe winter climates, Engineer Research and Development Laboratories at Fort Belvoir, Va., have completed a prefabricated building, designed to withstand arctic winds of 100 mph and temperatures of -65° F. Developed under contract with Chrysler Corp., building is of stressed skin aluminum construction, with side, roof, and floor panels of honeycomb core faced on both sides with aluminum alloy. Unit now undergoing tests is 48 ft. long, 20 ft. wide, and 8 ft. high, and variations in length are possible in 8-ft. increments from basic 8-ft. length. Simple, wedge-type connector pin holds panels together, permitting erection by untrained troops. To be used primarily for troop occupancy, unit contains its own heating and sanitation facilities. (Quoted verbatim).—SIPRE. *Copy seen:* DLC.

**21225. CLANCEY, P. A.** On *Anthus trivialis* (L.) in the western Palaearctic. (Dansk ornithologisk forening. Tidsskrift, 1950. Årg. 44, hefte 1, p. 41-44).

Contains data on dimensional and color

differences of two races of *Anthus trivialis*, in the western Palaearctic, obtained by the study of the collection of this bird (68 specimens) in various European zoological museums, including *A. trivialis trivialis*, inhabiting Scandinavia and Finland south from 69°-70° N. lat. Summary in English.

**Copy seen:** MH-Z.

**21226. CLARK, ANDREW HILL, 1911-** Contributions to geographical knowledge of Canada since 1945. (Geographical review, Apr. 1950. v. 40, p. 285-308)

Review of writings by Canadians (excepting the work of the new school of French-Canadian geographers, to be analyzed later) published in periodicals and books but not official government publications. The scope includes the Canadian Arctic, and references are accompanied by full bibliographic footnotes.

**Copy seen:** DGS; DLC.

**21227. CLARK, EINA M., and A. J. RHODES.** Poliomyelitis in Canadian Eskimos, laboratory studies, II. (Canadian journal of medical sciences, Aug. 1951. v. 29, p. 216-35, tables)

Results of further laboratory studies on the immunological aspects of the outbreak of poliomyelitis in Eskimos of the Canadian Eastern Arctic (mainly Chesterfield Inlet region) in the winter 1948-49; examination of sera from persons involved for the presence of neutralizing antibody to Lansing virus. Bibliography (34 items).

**Copy seen:** DGS.

**21228. CLARK, EINA M., and A. J. RHODES.** Poliomyelitis in Canadian Eskimos, laboratory studies, III. Lansing antibody levels in Baffin Island Eskimos. (Canadian journal of medical sciences, Oct. 1952. v. 30, p. 390-402, sketch map).

Contains a report on a test of sera of Lake Harbour and Pangnirtung Eskimos, and of a comparison of the results with those previously reported from Chesterfield Inlet and North Alaska. "The evidence suggests that poliomyelitis virus is world-wide in distribution."

**Copy seen:** DGS.

**CLARK, EINA M., see also Rhodes, A. J., & others.** Outbreak poliomyelitis Canadian Eskimos. 1949. No. 25514.

**21229. CLARK, GEORGE, and others.** Temperature regulation in cats with thalamic lesions. (Journal of neuro-

physiology, May 1939. v. 2, p. 202-207)  
*Other authors:* H. W. Magoun and S. W. Ranson.

Contains a report on experiments with cats whose thalamus was injured in order to ascertain whether this, like injuries to the hypothalamus, will affect temperature regulation. No disturbance in temperature regulation was observed in animals with damaged thalamus. Bibliography (10 items).

**Copy seen:** DLC.

**21230. CLARK, J. EDMUND.** Effect upon atmospheric transparency of the Alaskan eruption. (Royal Meteorological Society, Quarterly journal, 1913. v. 39, p. 219-20).

"Brief notation of others' observations of optical phenomena and dust clouds."—*Meteorological abstracts and bibliography*, June 1950, v. 1, no. 6, p. 373.

**Copy seen:** DWB.

**21231. CLARK, LLOYD K.** Human waste disposal by small groups and individuals in the Arctic. Report to the Subcommittee on Waste Disposal. Washington, D. C., [1951]. 11 p. (National Research Council, Committee on Sanitary Engineering and Environment).

"Information on waste disposal methods in the Arctic is furnished by various agencies, such as, the Royal Canadian Mounted Police, the Canadian Dept. of Health and Welfare, the Canadian Army, and the U. S. Army. The Canadian Army advocates the use of tin receptacles as urinals which may be set outside to freeze prior to disposal. Information regarding native practices of excreting and disposing is given. It is concluded that where pit latrines are not feasible, metal or other re-usable containers, containing chemicals, should be used. Precautions should be taken to bury excreta wherever possible. A number of recommendations are made including the study of various single-use containers, the feasibility of incineration, and means for digging pit latrines in permafrost."—SIPRE. Bibliography (10 items).

**Copy seen:** DLC (SIPRE Project files).

**21232. CLARK, LLOYD K.** Insulating material for sewage systems in permafrost areas. A report to the Subcommittee on Waste Disposal. (National Research Council, Committee on Sanitary Engineering and Environment. Bulletin, 1950. p. 457-67).

"A composite of the replies received to a questionnaire designed to obtain information on the installation of sewerage in arctic and subarctic areas is presented. Commercial concerns indicated that insulated pipes combined with waterproof seals or coatings would be suitable. Alaskan military establishments use un-insulated pipes installed in utilidors with steam lines; mineral-wood type insulation faced with a vapor seal is used for treatment units and house lines. The utilidors are costly to install and create sanitary hazards. The Fairbanks (Alaska) and Yellowknife (Canada) systems are the sole users of natural insulating materials (peat, moss). The former contains faulty installations; the latter has operated satisfactorily for a year. A report concerning the water lines in Siberia (Permafrost of Permanently Frozen Grounds and Related Engineering Problems, J. W. Edwards, Inc., Ann Arbor, Mich., 1947) is reviewed. Recommendations include inserting thermometers at strategic points in the pipe line and adding auxiliary heat in critical-temperature areas. A study is proposed to determine the heat-loss coefficients of various pipes (vitrified tile, concrete, cement-asbestos) and heat conductivities of naturally occurring earth materials below 32° F."—SIPRE.

*Contains* replies of various agencies which were asked for information on this subject, including commercial concerns, U.S. Dept. of the Army, Navy, Air Force; U. S. Public Health Service, Alaska Dept. of Health, and Canadian government agencies. **Copy seen:** CaMAI; DSG.

**CLARK, LLOYD K.**, *see also* Whittaker, H. A., & others. Disposal of garbage permafrost areas. 1949. No. 27355.

**21233. CLARK, VICTOR F.** Icing nomenclature. (*In:* Harvard-Mount Washington Icing Research Report 1946-1947. Tech. Rept. no. 5676, by Harvard U. and Mt. Washington Observatory, Inc. W33-038-ac-15827. June 22, 1948, p. 415-81, incl. illus. graphs).

"Descriptions, distribution of occurrence, and photographs are presented of the various types of ice observed at the Mt. Washington Observatory over a period of five years along with a brief description of the weather conditions favorable for each type of ice. A standard classification of ice based on appearance is proposed. Clear, transparent, and milky ice are considered glazes; opaque, kernel, feathery, and powder rime, and

enamel ice are classed as rimes. An additional classification, made of the shape of the ice deposit on stationary collectors, consists of ridged, curved, flat, grooved, and knife types. A brief section is included on effects of various elements on ice deposition. This report can be considered a preliminary Ice Atlas."—SIPRE.

**Copy seen:** DLC (Technical Info. Div.)

**CLARK, WALTER ELI, 1869-**, *see* U. S. Congress. House. Committee on the Territories. Hearings conditions in Alaska. 1912. No. 26928.

**21234. CLAYHILLS, THOMAS H.** Eine neue Noctuiden-Art aus Nord-Europa. (*Notulae systematicae*, 1930, v. 10, no. 3, p. 80-82, plate 2) **Title tr.:** A new species of Noctuidae from North Europe.

*Contains* a diagnosis of a new moth, *Rhyacia fennoscandica* n. sp. found in Muonio, Finnish Lapland, and on Rybachiy Peninsula, Kola Peninsula, and a comparison with *R. sajana* from eastern Siberia.

**Copy seen:** MH-Z.

**CLAYHILLS, THOMAS H.**, *see also* Grönblom, T., & T. H. Clayhills. Einige Berichtigungen z. Petersen's *Lepidopteren Fauna*. 1924. No. 22247.

**21235. CLEGG, W. E.** On seven eggs attributed to the Labrador duck *Camptorhynchus labradorius*. (*Ibis*, 1951. v. 93, no. 2, p. 305-306)

*Contains* a description of six eggs in the collection of Dresden Museum attributed to the Labrador duck and one egg found by the author in the Rothschild collection of birds' eggs in Tring Museum inscribed in ink "Canard Labrador"; the latter may be the egg of either *C. labradorius* or *Anas rubripes*; the Labrador duck is now extinct.

**Copy seen:** MH.

**CLEVE-EULER, ASTRID**, *see* Euler-Chelpin, Astrid Marie (Cleve) von 1875-

**21236. CLOUTIER, FRANÇOIS.** Réflexions médicales à propos des Esquimaux de l'Ungava. (*Laval médical*, 1949. v. 14, p. 532-38) **Title tr.:** Medical reflections regarding the Ungava Eskimos.

*Contains* notes from an extensive journey to the Canadian subarctic during the summer of 1948. They refer, among other topics, to respiratory diseases, cardiac diseases, contagious diseases,

cancer, eye diseases, gynecology, avitaminoses and metabolic diseases, problems of hygiene, etc.

**Copy seen:** DSG.

**21237. COATES, DONALD F.** Mapping the North. (Canadian geographical journal, Aug. 1951. v. 43, p. 58-69, illus., incl. map)

Account of Canadian Geodetic Survey work in 1947, establishing the land control for an aerial survey on James Bay; description of the daily work, itinerary, and the surface features of islands in James Bay upon which the author's particular field party worked (Charlton, Weston, South and North Twin, Walter, Grey Goose (and other) Islands).

**Copy seen:** DGS; DLC; DSI-M.

**COATES, DONALD F.,** see also Manning, T. H., & D. F. Coates. Notes birds James B. islands. 1952. No. 24167.

**21238. COATS, ROBERT ROY, 1910-** Magmatic differentiation in Tertiary and Quaternary volcanic rocks from Adak and Kanaga Islands, Aleutian Islands, Alaska. (Geological Society of America. Bulletin, May 1952. v. 63, p. 485-514, illus., 3 maps)

Contains results of chemical and optical analyses (including ten spectograms) which show that all the rocks are basalt or andesite, and have a very high alkaline index comparable to that for Katmai. Bibliography (46 items).

**Copy seen:** DGS.

**21239. COATS, ROBERT ROY, 1910-** Volcanic activity in the Aleutian Arc. Washington, U. S. Govt. Print. Off., 1950. iii, 35-49 p. illus., fold. table, fold. map. (U. S. Geological Survey. Bulletin 974-B)

Contains notes on distribution, dates and periodicity of eruptions, nature of volcanic activity, and relation of volcanism to structure in the Aleutian Islands and on the Alaska Peninsula; with table showing geographic positions, altitudes, and known eruptive activity during the period 1760-1948, of all the known volcanoes in the arc; and map showing location of principal volcanoes.

**Copy seen:** DGS.

**21240. COBB, EDWARD HUNTINGTON, 1916-** Coal investigations on the southwest margin of the Homer district, Kenai coal field, Alaska, in 1949. [Washington], 1950. 10 p., fold.

map. (U. S. Geological Survey. Reports; open file series. No. 63) Mimeographed.

Results of work in the 1949 field season supplementary to that reported in F. F. Barnes' *Coal investigations on the southern margin of the Homer district, 1947-48*, pub. 1949 (Arctic Bibliography No. 1073). Cobb gives a general description of the area, and notes on stratigraphy, structure, the coal beds, and coal reserves of the region lying about 59°45'-60°05' N. 151°30'-50' W., with a geologic map, scale 1:31,680.

**Copy seen:** DGS.

**COBB, EDWARD HUNTINGTON, 1916-** , see Barnes, F. F., & others. Coal investigations in south-central Alaska 1944-46, with a section on clay deposits by E. H. Cobb. 1951. No. 20470.

**21241. CODY, W. J.** Additions and annotations to the flora of Southampton Island, Northwest Territories, Canada. (Canadian field-naturalist, July-Aug. 1951. v. 65, p. 140-43).

Annotated list of over forty species and varieties of fungi, mosses, liverworts, ferns, and flowering plants, mostly new to the Southampton Island flora. **Copy seen:** DGS.

**21242. CODY, W. J.** Plants collected by B. John Woodruff on the west coast of Melville Peninsula, Franklin District, N. W. T., Canada. (Canadian field naturalist, Mar.-Apr. 1950. v. 64, p. 90-92, sketch map) Contribution no 1003 Division of Botany and Plant Pathology, Science Service, Dept. of Agriculture, Canada.

Contains list, with habitats, of 44 species of plants, including with description *Saxifraga tricuspidata* Rottb. forma *woodruffii* J. A. Calder, forma nov., collected in Aug. 1948, at 68°18' N. 85°25' W. close to the shore of Committee Bay.

**Copy seen:** DGS; DSI-M.

**21243. COE, DOUGLAS, pseud.** Vägen till Alaska; en bok om en väg och om de män som byggde den. Med illustrationer av Winfield Scott Hoskins. [Översättning av P. E. Virgin] Stockholm, Kooperativa förbundets bokförlag, 1946. 132 p., illus., map. **Title tr.:** The road to Alaska; the story of the road and the men who built it. With illustrations by Winfield Scott Hoskins. [Translation by P. E. Virgin].

Translation of *Road to Alaska* by

Douglas Coe, pseudonym of Samuel Epstein and Beryl (Williams) Epstein. (*Arctic Bibliography* No. 3270).

**Copy seen:** DLC.

**21244. COE, WESLEY ROSWELL, 1869-** . Geographical distribution of the species of nemerteans of the Arctic Ocean near Point Barrow, Alaska. (Washington Academy of Sciences. Journal, Feb. 1952. v. 42, p. 55-58. *Issued also as:* Contribution of the Scripps Institution of Oceanography, n. s. no. 557)

*Contains* an account of the worldwide distribution of the 24 species belonging to nine genera of nemertean worms which occur from shallow water to depths of 250 meters on the North Alaskan coast near Point Barrow. Bibliography (11 items).

**Copy seen:** DGS.

**COGSWELL, R. C.,** *see* Kark, R. M., & others. Observ. mobile arctic force. Health. 1948. No. 23138.

**21245. COHN, JAMES EDWARD.** Toward the Poles. [A brief account of polar exploration] Prepared for the Arctic and Cold Weather Coordinating Committee of the Office of Naval Operations. [Washington] Dept. of the Navy, 1950. v, 230 p. 2 fold. maps.

In the introductory material, author notes the more important figures in the history of polar exploration, synthesizes the disasters, describes succinctly the geographic land and sea units, the ice, climate, environment and resources of the North. Part 1 (p. 37-169) contains annotated chronological lists of exploratory expeditions and research in the Western Hemisphere before 1800, during the 19th century, and in the modern period, with separate treatment of the Northwest Passage and Franklin search, the Northeast Passage and Eastern Hemisphere, and the history of aviation in the Arctic. Part 2 deals with the Antarctic. Bibliography (56 arctic items), chronological index in tabular form, and glossary of terms, p. 206-230.

**Copy seen:** DLC.

**21246. COLBERT, LEO OTIS, 1883-** . Programming field operations in Alaska. (U. S. Coast and Geodetic Survey. Journal, Apr. 1949. No. 2, p. 2-7, map)

*Contains* historical sketch (in brief) of this agency's activities in Alaska since 1867; account (in more detail) of the systematic and continuous hydrographic surveys begun in 1901, wire dragging

in 1914, establishment of geodetic control by the end of 1945; topographic work, particularly nine-lens aerial photography since 1941. Tide and current observations and magnetic surveys are noted. The program for 1949 is outlined, extending work into hitherto unsurveyed areas of the northern Bering Sea and arctic coasts, and in south and southeast areas where existing charts are inadequate. Ship and shore operations are specifically noted. Future surveys are projected.

**Copy seen:** DLC.

**21247. COLE, FRANK RAYMOND, 1892-** . Diptera from the Pribilof Islands, Alaska. (*In:* Hanna, G. D., and others. Insects of the Pribilof Islands, Alaska, 1921. p. 169-77, 7 fig.)

*Contains* an account of 31 forms of flies and gnats. Three new species are described in detail: *Pterallastes borealis* n. sp.; *Dryomyza hannai* n. sp., *Parydra metallica* n. sp.

**Copy seen:** DSI-M.

**COLLER, FREDERICK A.,** *see* Mad-dock, W. G., & F. A. Collier. Role of extremities in dissipation heat. 1933. No. 24108.

**21248. COLLETT, ROBERT, 1842-1913.** Baeveren i Norge, dens udbredelse og levemaade. (1896). (Bergen, Norway. Museum. Aarbok, 1897, pub. 1898. No. 1, p. 1-127, 12 plates) **Title tr.:** Beaver in Norway, its distribution and mode of life.

*Contains* a study of the past and present distribution of the beaver in Norway, including data on Nordland, Tromsø, and Finnmark in northern Norway; observations on the life and habits of this animal with notes on feed, construction of the lodges, building material, dams, migration, breeding, commercial value and game laws. Summary in English, p. 103-126.

**Copy seen:** MH-Z.

**21249. COLLETT, ROBERT, 1842-1913.** Bemaerkninger om Norges reptiler og batrachier. (Norske videnskaps-akademi, Oslo. Forhandling, 1878, pub. 1879, no. 3, p. 1-12) **Title tr.:** Notes on reptiles and batrachians.

*Contains* a list of five species of reptiles and five batrachians inhabiting Norway, with synonyms, critical notes and data on distribution. Includes *Lacerta vivipara* (58°-70° N., *Coluber berus* (58°-66°30' N.) and *Rana platyrhina* (58°-70°30' N.). **Copy seen:** DLC; MH-Z.

**21250. COLLETT, ROBERT, 1842-1913.** Bemaerkninger til Hr. Stejnegers gjen-svar. (Archiv for matematik og naturvidenskab, 1879. Bd. 4, p. 271-79, illus.) **Title tr.:** Remarks on the reply of Mr. Stejneger.

Contains a continuation of the discussion between the author and L. Stejneger (see his *Fremdeles om Lanius*, 1879) on the identity of *Lanius major* and *L. excubitor*, shrikes native to northern Norway. **Copy seen:** MH-Z.

**21251. COLLETT, ROBERT, 1842-1913.** Bidrag til kundskaben om Norges Gobier. (Norske videnskaps-akademi, Oslo. Forhandling, 1874, pub. 1875, p. 151-79, plate 3) **Title tr.:** Contributions to the knowledge of Norwegian species of *Gobius*.

Contains a key to the species of ichthyological genus *Gobius* and a list of nine species native to Norwegian waters, with synonyms, Norwegian and Latin diagnoses, critical notes and data on distribution. Includes *G. minutus* occurring in Tromsø and Lofoten waters. **Copy seen:** DLC; MH-Z.

**21252. COLLETT, ROBERT, 1842-1913.** Hybrids among Norwegian birds and their diagnoses. Christiania, A. W. Brøgger, 1906. 26 p. (Norske videnskaps-akademi, Oslo. Forhandling, 1905, pub. 1906, no. 11).

Contains diagnoses of eight hybrids of Norwegian birds, with dimensions and data on habits, color, plumage, food and occurrence. Includes *Lagopus lagopus* x *Lyrurus tetrix* (Tromsø, Lofoten Islands, Vesteraalen), *Lagopus lagopus* x *L. mutus* (Tromsø) and two other hybrids from Ranen, Nordland. **Copy seen:** MH-Z.

**21253. COLLETT, ROBERT, 1842-1913.** *Myodes lemmus*, its habits and migration. Christiania, A. W. Brøgger, 1896. 63 p. (Norske videnskaps-akademi, Oslo. Forhandling, 1895, pub. 1896, no. 3)

Contains an ecological study of the European lemming, distributed in Norway from 73° N. to 58°30' N. lat., with notes on early history, names, resort, habits and distribution in normal years and breeding condition in prolific years; migration: its causes, centers, direction, extent, frequency and duration; the animal's nature and habits during migration: food, enemies, diseases ("lemming fever"), great migratory years and variability. **Copy seen:** MH-Z.

**21254. COLLETT, ROBERT, 1842-1913.** Nogle bemaerkninger i anledning af Hr. Cand. L. Stejneger "Underslaegten *Lanius* med saerligt hensyn paa dens nordiske arter." (Archiv for matematik og naturvidenskab, 1879. Bd. 4, p. 180-87) **Title tr.:** Some remarks on Cand. L. Stejneger's paper "Subgenus *Lanius* with special reference to its Norwegian species."

Contains a criticism of this paper by Stejneger, 1878, q. v., dealing with systematics and geographic distribution of two Norwegian species of the avian subgenus *Lanius* native to northern Norway. Stejneger replied to Collett in his *Fremdeles om Lanius*, 1879, q. v. **Copy seen:** MH-Z.

**21255. COLLETT, ROBERT, 1842-1913.** Nogle meddelelser om naebhvalen (*Hyperoodon*), og hvidfisken (*Delphinapterus*). (Bergen, Norway. Museum. Aarbok, 1906, nr. 6, p. 1-25) **Title tr.:** Some data on beaked whale (*Hyperoodon*) and beluga (*Delphinapterus*).

Contains a study of biology, ecology and distribution of beaked whale (*Hyperoodon rostratus*) and beluga (*Delphinapterus leucas*) along the western coast of Norway, including Nordland, Tromsø, and Finnmark waters; with data on external characteristics, growth, feeding, reproduction, migration and geographic distribution. **Copy seen:** MH-Z.

**21256. COLLETT, ROBERT, 1842-1913.** Norges fugle, og deres geographiske udbredelse i landet. (Norske videnskaps-akademi, Oslo, Forhandling, 1868, pub. 1869, p. 116-93) **Title tr.:** Birds of Norway and their geographic distribution in that country.

Contains a systematic list of 248 birds, native to Norway, with data on their distribution there, and their wintering and nesting places. Includes many species, occurring in the northern provinces of Norway. A *Supplement*, q. v., was published in 1872. **Copy seen:** DLC; MH-Z.

**21257. COLLETT, ROBERT, 1842-1913.** En ny bastardform blandt Norges Tetraonider, "fjeldrype-orre" (*Lagopus mutus* x *Tetrao tetrix*). (Bergen, Norway. Museum. Aarbok, 1897, pub. 1898, nr. 7, p. 1-7, plates 1-3) **Title tr.:** A new bastard form of Norwegian tetraonid, "fjeldrype-orre," *Lagopus mutus* x *Tetrao tetrix*.

Contains a description and illustration of the new bastard of ptarmigan, *Lagopus mutus* x *Tetrao tetrix*, ("fjeldrype-orre") captured in northern Nordland (Mo) and a comparison with another bastard, *Lagopus lagopus* x *Tetrao tetrix* ("lyripe-orre").

**Copy seen:** DLC; MH-Z.

**21258. COLLETT, ROBERT, 1842-1913.** Om en del for Norges fauna nye fiske, fundne i 1880-1896. (Archiv for matematik og naturvidenskab, 1897. Bd. 19, nr. 8, p. 1-25) **Title tr.:** On some fishes new to fauna of Norway, recorded in 1880-1896.

Contains a list of four species discovered before 1880 but not properly recorded, and an enumeration of nine species captured in Norwegian waters in 1880-96, with synonymy, dimensions, Norwegian localities and data on total distribution. Includes *Chlamydoselachus anguineus* recorded in Varanger Fiord in 1896 and *Sudis krøyeri*, captured in Sørøyen, western Finnmark, in 1885.

**Copy seen:** MH-Z.

**21259. COLLETT, ROBERT, 1842-1913.** Om en del for Norges fauna nye fugle (1896-1905). Christiania, A. W. Brøgger, 1906. 10 p. (Norske videnskaps-akademi, Oslo. Forhandling, 1905, pub. 1906, no. 10)

Contains a systematic list of eight species of birds, new to the fauna of various regions of Norway, including *Hirundo daurica* and *Melanocorypha calandra* killed in the Syd-Varanger region in 1905.

**Copy seen:** MH-Z.

**21260. COLLETT, ROBERT, 1842-1913.** Om 5 for Norges fauna nye fiske (1897-1900). (Archiv for matematik og naturvidenskab, 1900-1901, pub. 1901. Bd. 23, no. 7, p. 1-25) **Title tr.:** On five fishes new to the fauna of Norway.

Contains descriptions and data on biology and geographic distribution of five species of fishes, new to the fauna of Norway, including *Argyropelecus hemigymnus* (fam. Sternoptychidae) caught in Kvalø near Tromsø in 1895.

**Copy seen:** MH-Z.

**21261. COLLETT, ROBERT, 1842-1913.** Om *Pterycombus brama*, Fries. Bergen, Norway. Museum. Aarbok, 1896, pub. 1897, nr. 6, p. 1-13, 14-15, plates 1-2) **Title tr.:** On *Pterycombus brama* Fries.

Contains a description of this fish and data on its distribution in Norwegian

waters from Egersund in the south to Varanger Fiord in northernmost Norway, with citations of specimens and dimensions.

**Copy seen:** DLC; MH-Z.

**21262. COLLETT, ROBERT, 1842-1913.** Om tre for Norges fauna nye fiske fra "Michael Sars" to første togter i 1900 og 1901. (Archiv for matematik og naturvidenskab, 1903. Bd. 25, nr. 2, p. 1-26) **Title tr.:** On three fishes new to the fauna of Norway from two first trips of Michael Sars in 1900 and 1901.

Contains descriptions of two skates, *Raja fyllae* (Magerø, Finnmark) and *R. hyperborea* (Udenfor Andenaes, Vesterdaalen) and *Lycodes rossii* (Porsangerfjord) new to ichthyological fauna of Norway, collected by the research vessel Michael Sars in the Greenland and Barents Sea, with synonymy, dimensions, data on habitat, biology and distribution in Norwegian and other northern waters (Svalbard, Jan Mayen, Bjørnøya, Davis Strait and Kara Sea).

**Copy seen:** MH-Z.

**21263. COLLETT, ROBERT, 1842-1913.** On a breeding-colony of *Larus eburneus* on Spitsbergen. (Ibis, 1888. Ser. 5, v. 6, p. 440-43)

Contains a new record for discovery of nests and eggs of this species of gull, made by a Norwegian trading-vessel captain in Aug. 1887, on an island off north-eastern Spitsbergen at about 80°09' N. Description is given of the nests, eggs and habitat. Translation in Norwegian was published in Tromsø, Norway, Museum. Årsshefter, 1890. Bd. 13, p. 187-96.

**Copy seen:** DSI-M.

**21264. COLLETT, ROBERT, 1842-1913.** Oversigt af Norges Araneider, 1-2. (Norske videnskaps-akademi, Oslo. Forhandling, 1875, pub. 1876, p. 225-59; 1876, pub. 1877, no. 2, p. 1-27) **Title tr.:** Review of the arachnids of Norway.

Contains a systematic list of 126 species of arachnids inhabiting Norway, with Latin descriptions of five new species, synonyms and data on distribution. Includes 25 species native to northern regions. A supplemental paper was published by E. Strand *Die Dictyniden* . . . , 1904 q. v.

**Copy seen:** DLC; MH-Z.

**21265. COLLETT, ROBERT, 1842-1913.** Remarks on the ornithology of northern Norway. (Norske videnskaps-akademi, Oslo. Forhandling, 1872, pub. 1873, p. 189-309, map)

Contains a systematic list of 209 birds, inhabiting the regions north of the Arctic Circle in Norway with data on their habits, ecology and geographic distribution. The plumage succession of a few birds (ptarmigan, grouse, etc.) is described quite extensively as well as some hybrids.

**Copy seen:** DLC; MH-Z.

**21266. COLLETT, ROBERT, 1842-1913.** Supplement til "Norges fulge og deres geografiske udbredelse i landet" (1868-70). (Norske videnskaps-akademi, Oslo. Forhandlinger, 1871, pub. 1872, p. 52-61) **Title tr.:** Supplement to "Birds of Norway and their geographic distribution in that country."

Contains additional data on geographic distribution of 50 species of birds, described in the author's *Norges fugle*, 1869, q. v., including some native to northern regions of Norway.

**Copy seen:** DLC; MH-Z.

**21267. COLLETT, ROBERT, 1842-1913.** *Synotus barbastellus* (Schreb.) og *Phoca foetida*, Müll. nye for Norges fauna. (Archiv for matematik og naturvidenskab, 1897. Bd. 19, nr. 6, p. 1-7) **Title tr.:** *Synotus barbastellus* (Schreb.) and *Phoca foetida*, Müll. new to the fauna of Norway.

Contains a record of the capture of a specimen of rough or ringed seal (*Phoca foetida*) in Vardø, Varanger Fiord, and data on its wide (circumpolar) distribution in northern waters.

**Copy seen:** MH-Z.

**COLLIER, DONALD, see Martin, P. S., & others.** Indians before Columbus. 1947. No. 24201.

**21268. COLLIER, WILLIAM ROSS, and E. V. WESTRATE.** The reign of Soapy Smith, monarch of misrule in the last days of the Old West and Klondike Gold Rush. New York, 1935. vi, 299 p., port., illus. **Copy seen:** DLC.

**21269. COLLIN, JAMES E.** A new arctic species of *Fucellia* (Diptera, Anthomyiidae) with maculated wings. Report no. 4, from the zootopographical investigation of Greenland. (Entomologiske meddelelser, 1951. Bd. 26, hefte 2, p. 187-90, illus.)

Contains a diagnosis of *Fucellia vibei* n. sp., taken at Bay Fiord (79° N. 84° W.) on the west coast of Ellesmere Island on May 15, 1940 by Ch. Vibe, with some critical notes and comparison with another related species *F. picti-*

*pennis*, recorded from the Northwest Territories of Canada, Greenland and Grant Land (northern Ellesmere).

**Copy seen:** MH-Z.

**21270. COLLINDER, BJÖRN, 1894-** . Jakagirisch und Uralisch. Uppsala, 1940. 142 p. (Uppsala. Universitet. Årsskrift 1940, no. 8) **Title tr.:** Yukaghir and Uralian languages.

Contains a comparative linguistic morphological study of Yukaghir in its relationship to the Finno-Ugric, particularly Samoyedic languages. A review is given of earlier studies, general principles of the present investigation and data on the location (Kolyma River region), number (443 by "last census"), etc., of the Yukaghirs (p. 1-19). Then follows (p. 20-108) detailed comparative treatment of the noun declension; the verb (root formation, conjugation); the pronoun; lexical studies; phonetics. Reading material in Yukaghir (from Joehelson) with German translation and comments by the author follow (p. 109-132) also notes and bibliographical data (about 45 items). The author believes that the affinities in morphology of Yukaghir and Uralic languages can be explained only by assumption of an old relationship. The Yukaghir language is pretty closely related to the Finno-Ugric and Samoyedic languages, and all together can be considered as a unit.

**Copy seen:** DLC.

**21271. COLLINDER, BJÖRN, 1894-** . Lappisches Wörterverzeichnis aus Härjedalen. Uppsala, 1943. x, 110 p. (Uppsala Universitet. Årsskrift, 1943. no. 1) **Title tr.:** A Lappish vocabulary from Härjedalen.

Contains in the introduction, suggestions on how dialectal material should be collected; then follows vocabulary of 3-4 thousand Lappish words with phonetic pronunciation and German equivalent. The Lappish material was collected in 1941. **Copy seen:** DLC.

**21272. COLLINDER, BJÖRN, 1894-** . The Lapps. New York, Princeton University Press for the American Scandinavian Foundation, 1949. 252 p., plates, maps.

Comprehensive survey (first in English since 17th century) on the basis of author's study and sojourns as linguist, among Lapps over many years. Chapters on territory of Norwegian, Swedish, Finnish, and Russian Lapps, their history, language, race and national char-

acter; material culture: clothing, dwellings, food, reindeer husbandry; religious beliefs and practices; Lappish art, music and literature. Includes an informative discussion of ancient and modern observers and studies on the Lapps, also extensive bibliography. Throughout, author indicates varying local distinctions in customs, attitudes and lore, the intermingling of Scandinavian elements with traditional Lappish culture. Reviewed by R. H. Pehrson in *Arctic*, Dec. 1950. v. 3, no. 3, p. 187-88.

*Copy seen:* DLC.

**21273. COLLINDER, BJÖRN, 1894-** . Über den Begriff der Quantität mit besonderer Rücksicht auf die lappische Sprache. (Suomalais-ugrilainen Seura. Aikakauskirja, 1928. v. 42, no. 1, p. 1-24) *Title tr.:* On the concept of quantity with particular attention to the Lapp language.

*Contains* discussion of the psychophysical conditions in language; and an attempt made to find out how far Weber's law is useful for judgment over the length of sounds. The Lapp language offers very good material for such an investigation and the author bases his paper on the data published in Frans Äimä's work *Lautlehre und Phonetik des Inarilappischen*, Helsinki, 1914. Quantity and intensity belong to the acoustic-philological category of concepts, therefore, a certain degree of subjectivity in measuring by ear is inevitable.

*Copy seen:* DLC.

**COLLINDER, BJÖRN, 1894-** , *see also* Äimä, F. G., & B. Collinder. *Zur Lautkombinationslehre*. 1928. No. 20052.

**COLLINDER, BJÖRN, 1894-** , *see also* Manker, E. M. Study preserv. Lapp culture Sweden. 1947. No. 24156.

**21274. COLLINS, HENRY BASCOM, 1899-** . Archaeological excavations at Resolute, Cornwallis Island, N. W. T. (Canada. National Museum. Annual report for 1950-51, *pub.* 1952. *In its:* Bulletin no. 126, p. 48-63, plates 7-13)

*Contains* descriptions of author's second season's work at Resolute, assisted by William E. Taylor. Most of the house ruins belonged to a rather late stage of the Thule culture, but one small house contained earlier materials, identical with early Thule-Punuk types from Alaska, and another yielded Dorset type implements.

*Copy seen:* DLC.

**21275. COLLINS, HENRY BASCOM, 1899-** . Excavations at Frobisher Bay, Baffin Island, Northwest Territories (preliminary report). (Canada. National Museum. Annual report for 1948-49; *pub.* 1950. *In its:* Bulletin no. 118, p. 18-43, incl. 9 plates)

*Contains* descriptions of ruins and excavated artifacts of Dorset and Thule cultures found, in July-Aug. 1948, at a prehistoric Eskimo site (called Crystal II after the airbase of that name) at the head of Frobisher Bay, with discussion of the age of the site; bibliography (12 items).

*Copy seen:* DGS.

**21276. COLLINS, HENRY BASCOM, 1899-** . Excavations at Thule culture sites near Resolute Bay, Cornwallis Island, N. W. T. Preliminary report. (Canada. National Museum. Annual report for 1949-50, *pub.* 1951. *In its:* Bulletin no. 123, p. 49-63, plates 9-16)

*Contains* description of three former Eskimo dwelling sites excavated by the author (Smithsonian Institution) assisted by J. P. Mischea (National Museum of Canada) near the weather station at Resolute in 1949. The material recovered (1100 specimens) was typically Thule culture, much of it similar to that from northwestern America (Thule-Punuk sites in Alaska). Few stone but various metal-bladed implements were found. Animal bones show seal to have been the principal food supply of the Eskimos formerly on this island. The age of the houses is believed to be not more than a few centuries.

*Copy seen:* DLC.

**21277. COLLINS, HENRY BASCOM, 1899-** . The origin and antiquity of the Eskimo. (Smithsonian Institution. Annual report for 1950, *pub.* 1951. p. 423-67, illus., plates). Reprinted, with the addition of a map, in Yearbook of Physical Anthropology 1951, vol. 7, Wenner-Gren Foundation for Anthropological Research, Inc., 1953, pp. 75-123.

Following a survey of various theories (and their exponents) on the North American or Asiatic origin of the Eskimos, author summarizes recent archeological discoveries and their implications. Prehistoric Eskimo cultures: Thule, Cape Dorset, Birnik, Old Bering Sea, Punuk and Ipiutak, are sketched briefly and their relationships indicated. On the basis of excavations in Alaska and Siberia, cultural analogies are shown between prehistoric North American

Eskimos and early Neolithic peoples of Lake Baykal and the Mesolithic peoples of northern Europe. In summary author postulates later Neolithic peoples, moving from east-central Asia down-river to the arctic coast, "developed the rudiments of a maritime culture which found its fullest expression among the Eskimos" in the Bering Strait area. The data of physical anthropology and linguistics are summarized from the viewpoint of their evidence on the Eurasiatic origin of the Eskimo. Previous theories deriving the Eskimos from a North American Indian stock, based solely on metrical resemblances between certain Eskimo and Indian groups, some of whom are mixed bloods, are criticized along with the theory that the Eskimo skull form is the result of functional adaptation. Recent finds by Giddings and others in Alaska of the "Denbigh Flint Complex", pre-dating known Eskimo remains, are discussed in relation to the problem of early man in America also to Eskimo archeology. Bibliography, p. 462-67. Expanded from a paper prepared for *Encyclopedia arctica*. **Copy seen:** DLC.

**COLLINS, HENRY BASCOM, 1899-**, see also Alaskan Science Conference, Nov. 1950. Selected papers. 1952. No. 20118.

**COLLINS, HENRY BASCOM, 1899-**, see also *Polar record*. Dr. H. B. Collins' archaeol. excav. 1948-49. 1951. No. 25143.

**21278. COLLINS, PERRY McDONOUGH, 1814?-1900.** A voyage down the Amoor: with a land journey through Siberia, and incidental notices of Manchuria, Kamschatka, and Japan. New York, D. Appleton & Co., 1860. 2 p. l., 390 p. 4 plates (incl. front.) Also published as *Overland explorations in Siberia, northern Asia, and the great Amoor River country*. 1864 (467 p.).

The author, who in 1856 was appointed commercial agent of the United States for the Amur River region, describes here his journey from Petersburg across Russia to the Pacific coast and his stay and adventures in Irkutsk, Nerchinsk, Chita, the Amur region, Japan and Kamchatka. The notes on his stay in Kamchatka, Sept.-Oct. 1857 (p. 335-56) include description of a trip to the hot springs and Avacha volcano and of his stay in Petropavlovsk.

**Copy seen:** DLC (both editions).

**21279. COLTON, FERRY BARROWS, 1903-**. Life with our fighting Coast Guard. (National geographic magazine, May 1943. v. 83, p. 557-88, incl. 16 p. of illus.)

Includes eight colored reproductions of photographs of Greenland, Greenlanders, icebergs, kayaks, and walrus.

**Copy seen:** DGS; DLC.

**21280. COMBER, WINIFRED M.** Wilfred Grenfell, the Labrador doctor. London, Lutterworth Press [1950] 106 p., map.

Popular biography of the noted medical and social worker, in charge of the Labrador Mission to Deep-Sea Fishermen from 1892 till his death in 1940.

**Copy seen:** DLC.

**21281. COMITA, GABRIEL W.** *Cyclops magnus* from Amchitka, Alaska. (Hydrobiologia, 1952. v. 4, no. 4, p. 337-40, illus.)

Contains data clarifying the status of a cyclopoid copepod, *Cyclops magnus*, some specimens of which were taken from a tundra seepage-pool on Amchitka Island in the Aleutians; measurements from these specimens are presented. Summary in Italian. **Copy seen:** DGS; MH-Z.

**21282. CONIBEAR, FRANK.** The beaver's lodge. (Beaver, Sept. 1951. Outfit 282, no. 2, p. 36-37, diagrs.)

Contains "little known facts about beaver architecture . . . by a trapper of thirty years' experience." Author describes site, materials, lay-out, structure, and use of the beaver lodge, noting also other animals (muskrat, mink) which frequent it.

**Copy seen:** DSI-M.

**21283. CONLEY, C. LOCKARD, and J. L. NICKERSON.** Effects of temperature change on the water balance in man. (American journal of physiology, Mar. 1945. v. 143, no. 3, p. 373-84, 2 fig., 8 tables)

Contains a study on three pairs of adult males, each pair being under constant observation for about a week, half of this period under low, and half under high environmental temperature. The extrarenal water loss was quite constant during any period of uniform temperature; upon change of ambient temperature, extrarenal water loss and skin temperature attained new levels; there was no evidence of slow acclimatization. On exposure to cold, plasma volume was reduced; exposure to heat caused a prolonged increase

of plasma volume. Renal excretion of sodium and chloride seemed to reflect the difference between the intake of these substances and the loss in the sweat. Bibliography (11 items).

*Copy seen:* DLC.

**CONOVER, HENRY BOARDMAN, 1892-**, see also Rand, A. L. H. B. Conover's bird work in Yukon. 1950. No. 25354.

**21284. CONRAD, V.** Polygon nets and their physical development. (American journal of science, Apr. 1946. v. 244, p. 277-96, illus., 2 plates)

"There are 3 hypotheses explaining the formation of soil structures: (1) B. Högbom's, the pushing forces of freezing water; (2) O. Nordenskjöld, A. R. Low, and K. Gripp who consider convectional currents in a stratified soil with an instability caused by temperature differences; and (3) H. Steche's, stressing colloidal properties of the soil and the consequent swelling forces. There is evidence that freezing processes account for the formation of stone rings and that the clay spots, forming the nuclei for new rings are entirely dependent upon their homogeneity. Hence, there is a tendency toward a certain amount of regularity. Thirty-seven polygons, quadrangles, pentagons, hexagons, and heptagons were surveyed and their angles and frequency distribution were tabulated statistically. The quasi-regularity of stone nets could be verified from these calculations."—SIPRE. Bibliography (23 items).

*Copy seen:* DLC.

**CONSOLAZIO, C. FRANK**, see also Bly, C. G., & others. Nutritional requirements men in cold weather. 1949. No. 20730.

**CONSOLAZIO, C. FRANK**, see also Dill, D. B., & W. H. Forbes. Respiratory & metabolic effects hypothermia. 1941. No. 21476.

**CONSOLAZIO, C. FRANK**, see also Johnson, R. E., & others. Metabolic changes heat acclimatized men during cold. 1949. No. 23006.

**CONSOLAZIO, C. FRANK**, see also Kark, R. M., & others. Observ. mobile arctic force. Health. 1948. No. 23138.

**CONSOLAZIO, W. V.**, see Talbott, J. H., & others. Hypothermia, report of case. 1941. No. 26588.

**21285. CONSTANTINI, OTTO.** Durch Finnland und Lappland ans Nördliche Eismeer. München-Solln, Herold-Verlag, 1942. 159 p., 116 illus. on plates, 6 maps. *Title tr.:* Through Finland and Lapland to the arctic sea.

Contains account of the author's trip accompanied by his wife "shortly before the war," first pub. in 1941, this second (1942) edition having an added chapter on Vipuri (Viborg). The itinerary is given with a description of the country traversed, and the people, their life, habits and occupations. Landing at Helsinki the author proceeded by train to Lahti and thence to Rovaniemi, "the capital of the Lapps." From here he continued northward by bus along the Arctic Road to the coast, making numerous stops and side-trips to study the various groups of Lapps. These are described in detail and the account rounded out by chapters from the literature on the history, culture, race, economy of the Finns and Lapps. A short list of these sources, and other works by the author are listed p. 7-8.

*Copy seen:* DLC (both editions).

**21286. CONYBEARE, C. E. B.** Prospecting for uranium on the northwestern Canadian Shield. (Northwest science, Feb. 1949. v. 23, p. 40-41)

Abstract of a paper read before the annual meeting of the Northwest Scientific Association, Dec. 27-28, 1948. Deals with pitchblende deposits under development at Great Bear and Great Slave Lakes; their associated minerals, and yield, with note on precautions in use of Geiger-Mueller counters for prospecting.

*Copy seen:* DGS.

**21287. COOK, FREDERICK ALBERT, 1865-1940.** Return from the Pole; edited, with an introd. by Frederick J. Pohl. New York, Pellegrini & Cudahy [1951]. x, 335 p., port., map.

Introduction reviews the Cook-Pearry controversy; then follows Cook's own story (written during 1930-35) of his discovery of the North Pole, in part a reiteration of his earlier account, *My attainment of the Pole*, 1911 (see *Arctic Bibliography*, No. 3389). Includes a chronology of his and Peary's dash to the Pole. Bibliography (about 120 items).

*Copy seen:* DLC.

**COOKE, F. A. F.**, see Roberts, P. W., & F. A. F. Cooke. Arctic tower foundations frozen permafrost. 1950. No. 25593.

**21288. COOKMAN, AUBREY O.** Top of the world weather run. (Popular mechanics, Nov. 1948. v. 90, no. 5, p. 97-101, 262, 264, illus., maps, diagrs.)

Account of "Ptarmigan", the regular round-trip weather reconnaissance flights of B-29s between Fairbanks-Aklavik or Barrow and the North Pole. Personnel (11-man crew and three trainees or other observers), clothing, flight routine are described briefly also the half-hourly meteorological observations radioed to Ladd Field for international transmission. Grid navigation, sun's position in arctic twilight season, general weather conditions encountered are noted, as well as the contribution of these "time-schedule" flights to knowledge meteorological and weather forecasting. **Copy seen:** DLC.

**COOLEY, MAURICE**, *see* Dobrovolny, E., & others. Descrip. geol. Anchorage. 1950. No. 21486.

**COOLIDGE, HAROLD JEFFERSON, 1904-**, *see* Reed, J. C., & H. J. Coolidge. Alaskan Science Conference. 1950. No. 25432.

**21289. COOMBE, D. E., and F. WHITE.** Notes on calcicolous communities and peat formation in Norwegian Lappland. (Journal of ecology, Mar. 1951. v. 39, p. 33-62, illus., incl. map, diagr., 3 plates)

Based on data collected on the Cambridge Expedition to West Finnmark in 1947. Calcicolous communities of plants are those growing on "soils of high base status" or "calcareous soils," especially on the dolomite outcrops near Talvik (about 70° N. 23° E.) on Alten Fiord and in the Porsangerfjord region to the northeast. Communities on well-drained, wet and other soils are described, with discussion of the calcicolous habitat; peat formation on or near calcareous areas is discussed and the resultant restriction of calcicolous flora. Bibliography (27 items). **Copy seen:** DLC.

**21290. COOPER, JOHN MONTGOMERY, 1881-**. The northern Algonquian supreme being. Washington, D. C., 1934. 78 p. (Catholic Univ. of America. Anthropological ser. no. 2; also pub. in Primitive man, 1933. v. 6, nos. 3-4, p. 41-111)

Contains field data (p. 4-44) on beliefs and rites collected by the author mainly in 1933 among Cree-speaking Indians of the west coast of James Bay (Attawa-

piskat, Albany, Moose and Keskami Rivers), together with similar material from Montagnais-speaking Indians of the Eastmain River (east Hudson Bay) and Labrador, the last collected by W. D. Strong while with the Rawson-Mac-Millan Expedition of 1927-28, in the region of Nain. Author analyzes these data to find the extent of Christian influence (profound since 1840) on aboriginal beliefs and practices, (and incidentally gives a brief but efficient historical sketch of explorers' and missionaries' activities in the area). He characterizes the persisting concept of the supreme being and practices associated therewith, as conforming to Indian and non-Christian patterns rather than Christian ones. Algonkian and Ojibway influence on the theism of these Bay Indians is dismissed. **Copy seen:** DLC.

**21291. COOPER, L. H. N.** Factors affecting the distribution of silicate in the North Atlantic Ocean and the formation of North Atlantic deep water. (Marine Biological Association of the United Kingdom. Journal, 1952. v. 30, p. 511-526, illus.)

Includes brief discussion of the role of tundra drainage in supplying large amounts of silicate to the north polar sea and of the role of the East Greenland, Irminger, and Labrador Currents in the formation of the North Atlantic deep water. **Copy seen:** DGS.

**21292. COPE, EDWARD DRINKER, 1840-1897.** A contribution to the ichthyology of Alaska. (American Philosophical Society. Proceedings, Jan. 1873, v. 13, p. 24-32)

Contains classified list of 16 (including with full descriptions, 11 new) species of fishes from oceanic waters near Sitka and Unalaska, collected by G. Davidson during surveys for the U. S. Coast Survey. **Copy seen:** DGS.

**COPE, OLIVER**, *see* Rosenfeld, L., & others. Circulation blood & lymph in frostbite, exper. study. 1949. No. 25656.

**COPE, OLIVER B., 1916-**, *see* Gjullin, C. M., & others. Effect some insecticides on black fly larvae. 1949. No. 22127.

**CORDELL, ALFRED R.**, *see* Shumacker, H. B., & others. Studies in experimental frostbite I; effect of heparin on gangrene. 1947. No. 26178.

**21293. CORDIER, D., and Y. PIÉRY.** Influence du froid sur la vitesse du transit gastrique et l'absorption intestinale des solutions de glucose chez le rat. (Société de Biologie, Paris. Comptes rendus, nov. 1950. t. 144, no. 21-22, p. 1521-23) *Title tr.:* Influence of cold on the speed of gastric transit and intestinal absorption of glucose solutions in the rat.

*Contains* an account on experiments which demonstrated that in rats, the struggle against chilling is accompanied by a moderate acceleration of gastric transit and a considerable increase in the speed of intestinal absorption of glucose. These phenomena could not be explained by adrenalin secretion.

*Copy seen:* DLC.

**21294. CORNELIUSSEN, OLUF AABEL, 1850-** . Naeverhaugens jernglansforekomster. (Nytt magasin for naturvidenskapene, 1877. Bd. 22, p. 378-98, illus., map). *Title tr.:* On the occurrence of iron glance near Naeverhaug.

*Contains* data on a geological survey of the iron ore deposits in the vicinity of Naeverhaug, Salten Fiord region of Nordland in northern Norway, with a geological map, data on rocks including iron ore, estimate of deposits and quantitative analysis of iron content.

*Copy seen:* MH-Z.

**COTELL, R. D.,** *see* Crary, A. P., & others. Geophysical studies Beaufort Sea 1951. 1952. No. 21303.

**COTELL, R. D.,** *see also* Crary, A. P., & R. D. Cotell. Ice islands in arctic research. 1952. No. 21304.

**21295. COTTAM, CLARENCE, 1899-** , and **H. C. HANSON.** Food habits of some arctic birds and mammals. (Field Museum of Natural History, Chicago. Publications; zoological series, 1938. v. 20, p. 405-426)

*Contains* results of analyses of stomach contents made on 23 species of birds and five species of mammals from Labrador, and Greenland, collected during the Bartlett Expedition, 1936. Included are the musk-ox, arctic fox, polar bear, and Greenland hare.

*Copy seen:* DLC; DSI-M.

**COUJARD, ROGER,** *see* Champy, C., & R. Coujard. Localisation et accélération névrites B<sub>1</sub>. 1940. No. 21149.

**21296. COWAN, IAN McTAGGART, 1910-** . A new *Microtus* from the

western Arctic of Canada. (Journal of mammalogy, Aug. 1951. v. 32, p. 353-54)

Description of *Microtus pennsylvanicus arcticus* ssp. nov., a microtine rodent taken from Richards Island, Mackenzie delta (69°31' N. 133°49' W.) in July 1947.

*Copy seen:* DGS; DSI-M.

**21297. COWAN, IAN McTAGGART, 1910-** . Waterfowl conditions on the Mackenzie delta, 1947. (Murrelet, May-Aug. 1948. v. 29, p. 21-26)

Counts of waterfowl made in 1934 (by Porsild) and June-Aug. 1947 (by the author) show only about half as many birds in the recent as in the earlier year. Some field notes on 17 species, description of the delta as a habitat, and discussion of the decline in waterfowl are presented.

*Copy seen:* DSI-M.

**21298. COWIE, W. E.** Eskimo style clothing of synthetic fur. (Arctic circular, Jan. 1950. v. 3, p. 9-10)

*Contains* description of nylon pile fabric designed to incorporate the warmth, flexibility and weight of the caribou skin and the frost-removal characteristics of wolverine fur.

*Copy seen:* CaMAI; DAL.

**21299. COWLES, RAYMOND B.** Fur and feathers: a response to falling temperature. (Science, Jan. 18, 1946. v. 103, p. 74-75)

*Contains* a discussion whether fur and feathers appeared in the animals in response to cold. Author claims that they arose independently and originally may have served as protection against excessive solar energy. Only later, their possession permitted the development of temperature control, necessary for the evolution of the warm-blooded animals.

*Copy seen:* DLC.

**21300. COXWELL, CHARLES FILLINGHAM, 1856-** . Siberian and other folk-tales; primitive literature of the empire of the tsars, collected and translated, with an introduction and notes. London, C. W. Daniel Co., 1925. 1056 p. map.

A compilation from printed sources, with introductory notes on the mythology and beliefs of each people. Includes texts of 11 tales from the Chukchis, 3 Yukaghirs, 6 Gilyaks, 5 Tungus, 8 Yakuts, 5 Samoyeds, 4 Ostyaks, and 14 Lapp tales along with others of non-arctic peoples. The texts are carefully, though not literally translated with exact reference.

The notes are in most cases reliable as to source.

**Copy seen:** DLC; InU.

**21301. COXWELL, CHARLES FILINGHAM, 1856- .** Through Russia in war-time. New York, Scribner's n. d. [1917] 312 p., incl. plates, map.

Contains account of the author's trip in 1915 from Brooklyn via Arkangel'sk and Vologda to Baku, returning via Petrograd, Rovaniemi, Abisko and Stockholm. Chap. 23 gives his impressions of Lapland (p. 296-304, 3 plates).

**Copy seen:** DLC; InU.

**CRAIG, F. N., see Horvath, S. M., & others.** Survival time warm-blooded animals in extreme cold. 1948. No. 22715.

**21302. CRAIN, RICHARD W., Sr.** Steam power plants in Alaska. (Pacific builder and engineer, Dec. 1951. v. 57, no. 12, p. 101-104, incl. illus., table)

"Soils are tested for their make-up before construction by probing with augers and churn drills to determine the presence of permafrost. Permafrost is removed to below footings and artificial compaction resorted to by blasting the thawed ground with dynamite first at 30 ft., then at 60 ft. depth, with 2 lbs. of dynamite in each hole. Well-drilling is started by drilling a 6-in. diameter pilot hole until water is reached. Drilling is continued through thin permafrost layers. Drilling is stopped if permafrost is thick, and a new pilot hole is drilled a short distance away."—SIPRE.

**Copy seen:** DLC.

**21303. CRARY, ALBERT P., and others.** Geophysical studies in the Beaufort Sea, 1951. (American Geophysical Union. Transactions, 1952. v. 33, p. 211-16, illus., sketch map) Other authors: R. D. Cotell and Jack Oliver.

Contains data and brief discussion of sonic depth determinations, motion of the ice sheet relative to the water (acoustical method), ice drift in relation to surface isobaric contours, and gravity measurements; the observations were taken during six landings made on the ice pack between 73°-76° N. 135°-150° W. in April 1951.

**Copy seen:** DGS.

**21304. CRARY, ALBERT P., and R. D. COTELL.** Ice islands in arctic research. (Scientific monthly, Nov. 1952. v. 75, p. 298-302, illus., sketch map)

Contains an account of the discovery of floating ice islands in the polar basin, and occupation by a U. S. Air Force party of

one of them ("T-3") during Apr.-June 1952. The party's meteorologic, oceanographic and physical research carried on during the drift (called "Project Icele") is briefly noted.

**Copy seen:** DGS; DLC.

**21305. CRARY, ALBERT P.** Investigation of stratosphere winds and temperatures from acoustical propagation studies. [Cambridge, Mass.?] 1950. 32 p. illus., tables. (U. S. Air Force. Cambridge Research Laboratory. Geophysical research papers no. 5)

"Easterly winds found during summer months for all latitudes, with minimum values in Alaska; high westerly winds found in Alaska in winter. Diurnal effects shown negligible. Paper summarizes work up to Aug. 1949, by the Terrestrial Sciences Laboratory of the Geophysical Research Directorate on investigation of stratospheric wind and temperature from acoustical sources. Main features of other reports are included."—*Meteorological abstracts and bibliography*, Oct. 1950. v. 1, no. 10, p. 685-86. Bibliography (12 items).

**Copy seen:** MH-BH.

**21306. CRARY, ALBERT P., and others.** Preliminary report on scientific work on "Fletcher's Ice Island", T3. (Arctic, Dec. 1952. v. 5, no. 4, p. 211-23, incl. illus., graphs) Other authors: R. D. Cotell and T. F. Sexton.

"T3 is an ice island in the Arctic Ocean on which a permanent campsite was erected in 1952 for scientific operations. The investigations, other than meteorological, in progress from April 1-Oct. 1, included studies of the physical structure of the island, the movement of the island and the ice pack, seismic profiling and other miscellaneous data. T3 is 31 mi. in circumference and has a minimum width of 5 mi. A 52-ft. hole was dug in which 58 dirt layers were found, the contents of which were weighed and microscopically examined. Lakes appeared in the hollows during the thaw period (late June to mid-Aug.). A map presents the track of T3, indicating the changes of island azimuth to true and magnetic north and the geographical longitudes. A tentative ice thickness of about 160 ft. was obtained through seismic soundings of the ice and the ocean bottom. Ocean depths ranging from 5000-12,000 ft. were obtained."—SIPRE. Samples of surface dirt, flora and fauna were collected, including large

boulders of granitic rock, plant fragments (stems, leaves, blossoms), mollusc shells, fishbones, caribou antlers, etc. A few birds and bear and arctic fox tracks were seen. Continuing research on T-3 is indicated. *Copy seen:* DLC.

**21307. CRAWFORD, H. D.** Alaska can ease our newsprint shortage. (American forests, 1951. v. 57, no. 11, p. 6-9, 46, 48, illus., map)

*Contains an account of the present paper shortage and its causes. The first Alaska paper mill (producing pulp for cellophane manufacture), conditions for additional paper mills, especially for newsprint, transport and communications of the proposed area, are described with outline of the new paper mills in southern U.S.A.* *Copy seen:* DA.

**CREASEY, N.,** see Duffey, E., & others. "Rodent-run" distraction-behavior. 1950. No. 21556.

**21308. CREUTZBURG, N.** Erich von Drygalski und die deutsche Geographie. (Erdkunde, Aug. 1949. Bd. 3, Heft 2/3, p. 5-7)

Tribute to Drygalski 1865-1949, including appreciation of his work in arctic and antarctic regions and glaciology; expeditions in which he participated are noted. *Copy seen:* CaMAI.

**21309. CRILE, GEORGE W., and D. P. QUIRING.** Indian and Eskimo metabolisms. (Journal of nutrition, 1939. v. 18, p. 361-68, 3 tables)

*Contains a report on an investigation made during the summer of 1937 by the Cleveland Clinic Expedition, on 13 Chipewyan Indians from near Churchill, and on 63 Eskimos from Chesterfield Inlet, with sexes approximately equally divided. Average metabolic values are quoted. In the Indians, pulse rate and blood pressure appeared to be lower than in American whites, or Eskimos or Mayan Indians. In the Eskimos, blood pressure was lower than in whites of corresponding age but the pulse rate was similar. Some of the tests included in this report were made by Dr. Thomas Melling, medical health officer for Keewatin District. Bibliography (2 items).*

*Copy seen:* DLC.

**21310. CRISMON, J. M., and F. A. FUHRMAN.** Distribution of sodium and water in muscle following severe cold injury. (Science, Nov. 1, 1946. v. 104, p. 408-409)

*Contains a report on experiments made*

with rabbits, one of their hind limbs being deep frozen, the other serving as control. Following cold injury the muscle gained 5-60 percent water, while the increase in sodium was proportionately much larger. This redistribution of sodium however, is not a specific event and follows all kinds of severe tissue injury. Bibliography (8 items).

*Copy seen:* DLC.

**21311. CRISMON, J. M., and F. A. FUHRMAN.** Studies on gangrene following cold injury, IV. The use of fluorescein as indicator of local blood flow: distribution of fluorescein in body fluids after intravenous injection. (Journal of clinical investigation, Mar. 1947. v. 26, p. 259-67, 5 fig.)

*Contains an account of experiments with normal rabbits, intravenously injected with fluorescein, in order to study its distribution in the blood and body fluids, the extent of its penetration into cells, and the factor influencing fluorescein equilibrium. Data are offered on the time, and circumstances when maximum concentration is reached in various regions of the body. There was no evidence in skeletal muscle that the dye penetrated the intracellular phase, though surface absorption may have taken place on erythrocytes, in vitro. Bibliography (12 items).*

*Copy seen:* DLC.

**21312. CRISMON, J. M., and F. A. FUHRMAN.** Studies on gangrene following cold injury, V. The use of fluorescein as an indicator of local blood flow: fluorescein tests in experimental frostbite. (Journal of clinical investigation, Mar. 1947. v. 26, p. 268-76, 3 fig.)

*Contains a study of distribution of intravenously injected fluorescein in frost-bitten and normal ears of rabbits. Both the dye's entrance into, and exit from the injured regions were slower, the maximum intensity lower, than in the controls; the exchange of dye also became progressively slower after injury. Procaine blockade of the stellate ganglion caused earlier and higher maxima of fluorescence in the damaged ears than in controls. Edema fluid showed twice as great concentration of fluorescein as the blood. The problem of impaired dye-exchange in the damaged area due to development of stasis in the true capillaries, is discussed. Bibliography (10 items).*

*Copy seen:* DLC.

**21313. CRISMON, J. M., and F. A. FUHRMAN.** Studies on gangrene fol-

lowing cold injury, VI. Capillary blood flow after cold injury, the effects of rapid warming, and sympathetic block. (Journal of clinical investigation, May 1947. v. 26, p. 468-75)

Contains a report on a microscopic study of blood-flow in the ears of rabbits during the first hour after freezing; also in ears treated by rapid thawing and by procaine blockade. Paralysis of vasomotor activity was produced in the frozen regions. After thawing in air of 25° C. blood flow was reestablished and all vessels became dilated; stasis began in the true capillaries with the return of blood flow and was complete in ten minutes. Rapid thawing in warm water (42° C.) delayed the development of stasis until maximal swelling was reached in about two hours; procaine block also delayed the onset of stasis by 50-60 minutes. Information is also offered on: blood flow in arterio-venous anastomoses and arteriolar-venular capillaries; lymph flow; interstitial fluid formation, etc. Bibliography (25 items). **Copy seen:** DLC.

**21314. CRISMON, J. M., and F. A. FUHRMAN.** Studies on gangrene following cold injury, VIII. The use of casts and pressure dressings in the treatment of severe frostbite. (Journal of clinical investigation, May 1947. v. 26, p. 486-96, 2 fig.)

Contains a report on experiments with casts and pressure dressings, and combinations of these with rapid warming. The best results were obtained by rapid warming followed by cast applied before swelling occurred, or by pressure dressings applied after maximum swelling. Casts and pressure dressings alone produced "significantly favorable results." Multiple incisions through the damaged skin, maintenance of low temperature, pulsating pressure, etc., were of doubtful value or ineffective. Bibliography (17 items). **Copy seen:** DLC.

**CRISMON, J. M., see also Fuhrman, F. A., & J. M. Crismon.** Influence acute hypothermia O<sub>2</sub> consumption. 1947. No. 21982.

**CRISMON, J. M., see also Fuhrman, F. A., & J. M. Crismon.** Studies on gangrene following cold injury I, method for producing gangrene. 1947. No. 21983.

**CRISMON, J. M., see also Fuhrman, F. A., & J. M. Crismon.** Studies on gangrene following cold injury II, course of

events in rabbit feet and ears. 1947. No. 21984.

**CRISMON, J. M., see also Fuhrman, F. A., & J. M. Crismon.** Studies on gangrene following cold injury III, edema. 1947. No. 21985.

**CRISMON, J. M., see also Fuhrman, F. A., & J. M. Crismon.** Studies on gangrene following cold injury VII, treatment by rewarming. 1947. No. 21986.

**CRISMON, J. M., see also Fuhrman, F. A., & J. M. Crismon.** Studies on gangrene following cold injury IX, effect of rutin. 1948. No. 21987.

**CRONIN, HAROLD, see St. Amand, P., & H. Cronin.** Atmospheric refraction at College, Alaska, 1947-48. 1950. No. 25781.

**CROOME, R. R. M., see Kark, R. M., & others.** Observ. mobile arctic force. Health. 1948. No. 23138.

**21315. CROSS, C. G.** Mining in Yukon 1950. (Canadian mining journal, Feb. 1951. v. 72, no. 2, p. 65-66, illus.)

Report on silver, lead, zinc in the Keno Hill area of Mayo district, the gold mining, new road from Mayo to Whitehorse, and beginning of construction on a May River power plant. **Copy seen:** DGS.

**CROSS, H. F., see Applewhite, K. H., & H. F. Cross.** Further studies of repellents in Alaska. 1951. No. 20252.

**CROSS, H. F., see also Gjullin, C. M., & others.** Tests with DDT control black fly larvae. 1950. No. 22128.

**21316. CROTTET, ROBERT.** The enchanted forest and other tales. London, Richards Press, Ltd., 1949. 188 p., illus. Also published in French and German.

"Legends of the Skolt Lapps, translated by the author and presented in literary form."—*Polar record*, July 1950, v. 5, no. 40, p. 644. **Copy seen:** DLC.

**21317. CUMMINS, HAROLD, and V. FABRICIUS-HANSEN.** Dermatoglyphics in Eskimos of West Greenland. (American journal of physical anthropology, 1946. v. 4, p. 395-402, illus., table)

Contains report on skin patterns of the fingers and palms (dermatoglyphics) of 145 Eskimos of West Greenland, south of Julianehaab. All variants show trends which are characteristic of Yellow-Brown

rates. The inconsistencies among the recorded series of Eskimos are discussed. Bibliography (9 items).

*Copy seen:* DSG.

**21318. CUPP, EASTER ELLEN, 1904-**

Seasonal distribution and occurrence of marine diatoms and dinoflagellates at Scotch Cap, Alaska. Berkeley, Calif., 1937. 71-100 p., diags. (California. University. Scripps Institution of Oceanography, La Jolla. Bulletin. Tech. ser. v. 4, no. 3)

Study based on daily plankton collections at Scotch Cap light, Unimak Island (54°33' N. 164°44' W.), Aug. 1926-June 1933. "In general, the average yearly cycle of diatom abundance . . . closely resembled that reported for the north European coast and, with local differences, that usually found in the majority of temperate and northerly regions. Dinoflagellate production was negligible."—From author's summary. Bibliography (53 items).

*Copy seen:* DSI-M.

**CUTKOMP, L. K.,** *see* Brown, A. W. A., & others. Control adult mosquitoes & black flies DDT. 1951. No. 20947.

**21319. CYRIAX, RICHARD JULIUS.** The position of Victory Point, King William Island. (Polar record, July 1952. v. 6, no. 44, p. 496-507, illus., map)

Contains an extensively documented study on the position of Victory Point (69°37'49" N. 98°40'49" W.), first visited by Sir James Clark Ross in 1830. For many years it was considered as the place where members of Franklin's last expedition under Captain Crozier encamped after abandoning ship in April 1848 and left records. Author comes to the conclusion that the Point is in all probability a headland about three miles to the north of the place where Crozier landed. *Copy seen:* CaMAI; DLC.

**21320. CYRIAX, RICHARD JULIUS.** Recently discovered traces of the Franklin Expedition. (Geographical journal, June 1951. v. 117, p. 211-14, map)

Contains discussion of the relics reported by Royal Canadian Mounted Police Inspector H. A. Larsen who inspected the coast of King William Island, between Cape Felix and Cape Franklin in Aug. 1949; with many references to the proceedings of Sir John Franklin's expedition of 1845-47 and to some of the

search expeditions. Bibliographic footnotes.

*Copy seen:* DGS; DLC.

**21321. CYRIAX, RICHARD JULIUS.** Sir John Franklin's last arctic expedition; a chapter in the history of the Royal Navy. London, Methuen & Co., 1939. xviii, 222 p., 4 maps (3 fold.)

On the basis of published and mss. records (among the latter especially Admiralty documents and journals, etc., of McClintock), the author presents an exhaustive and extensively documented account of Franklin's voyage of 1845-47. He includes a discussion of the Northwest Passage, pre-Franklin efforts to discover an ocean-to-ocean route through Canadian arctic waters, and the search for Franklin after 1849. Here he concentrates on the information, relics, etc., discovered by the various searchers rather than on their incidental geographic explorations, and he stresses McClintock's finds in Simpson Strait which proved that some of Franklin's people had discovered a passage but died before traversing it. The organization, personnel with biographic data, provisions, etc., of Franklin's expedition are given in detail, and its movements traced on the basis of the sparse evidence remaining, no journals or log books having been recovered. Appendices on (1) monuments, graves and relics (2) biographies of junior officers close the volume. *Copy seen:* DLC.

**21322. CZAPLICKA, MARIE ANTOINETTE, d. 1921.** Aboriginal Siberia, a study in social anthropology with a preface by R. R. Marett. Oxford, Clarendon press, 1914. xiv p., 1 l., 374 [2] p. 16 plates, 2 fold. maps.

Before personally investigating conditions in the country itself, the author prepared a comprehensive and concise handbook for the study of the anthropology, based mainly (and therefore more informative in some areas, less in others) on results of Russian scientists' and explorers' field work. She gives a sketch of the geography and survey of native peoples (with 1897 census data) including Chukchis, Koryaks, Kamchadals, Eskimos, Aleuts, Yukaghirs, Chuvantay, Yenisey-Ostyaks, Finnic tribes (Ugrian Ostyaks and Voguls), Samoyedic tribes, Yakuts, Tungusic tribes. In chapters on social organization, marriage, birth and death customs and beliefs (p. 23-165); on shamanism (p. 166-206) and on arctic hysteria (p. 307-325), the data available

are arranged according to tribe or area. A bibliography of about 200 Russian and 150 other works is added.

**Copy seen:** DLC.

**21323. CZAPLICKA, MARIE ANTOINETTE, d. 1921.** My Siberian year. London, Mills & Boon, [1916] xii, 315 [1] p. front. 32 plates, fold. map.

Narrative of the author's thirteen-month expedition in 1914-15, with an English party of four from Leningrad by railway to Krasnoyarsk, thence up the Yenisey by steamboat to Yeniseysk, then down the river to its mouth; the summer months spent in the tundra region around Golchikha, a sojourn at Turukhansk, the wintering among the Tungus in the stony tundra north of Nizhnyaya Tunguska River. Author comments on characteristics of Yakuts, Samoyeds, Yeniseians, met during her travels, describes in more detail with many illustrative anecdotes, customs of the Tungus in reindeer husbandry, marriage, hunting and fishing, social organization and law, religion, shamanism. She discusses the "Sibiriaks," colonists of European ancestry, also recent Russian migrants to Siberia (traders, exiles, etc.) and remarks throughout on native practices as affected by European influences as well as traditional customs. At the end is an historical account of Siberia as a Russian colony and a glossary of (mainly) Russian and Tungus terms. Plates are (mainly) photographic illustrations of northern Siberian natives.

**Copy seen:** DLC.

**21324. CZAPLICKA, MARIE ANTOINETTE, d. 1921.** Ostyaks. (*In:* Hastings, James, ed. *Encyclopaedia of religion and ethics*, 1917, v. 9, p. 575-81)

*Contains* note of three different tribes of northwestern Siberia: the Ugrian, "Samoyedic," and "Yenisey" Ostyaks, together numbering about 24,000; the second group actually Samoyed, and the last a small group, actually Yeniseians, linguistically and probably racially distinct from the others. The Ugrian Ostyaks (17,000 in 1897) are discussed as to origin, area (Ob'-Irtysh basin), their heroic period, later history and conquest, their material culture with economic and physical deterioration as Russian colonization advances; social customs, religious lore, beliefs and shamanism. The Yeniseians are likewise described, their admixture with Russians and others in modern times and their de-

terioration noted. Social and material culture (briefly), religion (in detail) and shamanistic practices and accoutrements are discussed.

**Copy seen:** DLC.

**21325. CZAPLICKA, MARIE ANTOINETTE, d. 1921.** Samoyed. (*In:* Hastings, James, ed. *Encyclopaedia of religion and ethics*, 1921, v. 11, p. 172-77)

*Contains* a survey of Ural-Altaic tribes living along the coast from Cheskaya Bay eastwards to the Khatanga, numbering about 20,000, and divided into Ostyak or Forest Samoyeds, and Yenisei or Eastern Samoyeds. Both groups are described as to their language, origin, physical type, cultural type (reindeer-breeding, nomadic life); their religious beliefs and practices; mythology and folklore.

**Copy seen:** DLC.

**21326. CZAPLICKA, MARIE ANTOINETTE, d. 1921.** Siberia, Sibiriaks, Siberians. (*In:* Hastings, James, ed. *Encyclopaedia of religion and ethics*, 1921, v. 11, p. 488-96)

*Contains* an outline of the region: origin of its name, its geographical position, exploration, and classification of its inhabitants; remarks on the Paleo-Siberians and their cultural affinity with Northwest Amerinds; the Chukchi country and people (about 12,000 living in the far northeast of Siberia from the River Indigirka to Bering Strait on the east, and to Anadyr' River in the south). Their physical characteristics, economy, material culture and social organization, religious beliefs and practices are treated briefly but specifically, cultural elements derived from or related to Eskimos, or Northwest American Indians are noted.

**Copy seen:** DLC.

**21327. CZAPLICKA, MARIE ANTOINETTE, d. 1921.** Tungus. (*In:* Hastings, James, ed. *Encyclopaedia of religion and ethics*, 1922, v. 12, p. 473-76)

*Contains* comprehensive outline of this mongoloid (?) people, numbering about 75,000 in 1911, living in small groups throughout Siberia from River Taz in the west, to Sakhalin Island in the east, from the arctic coast southward and to the middle of Manchuria. The northern Tungus are at the stage of reindeer culture although they know the use of iron. The southern Tungus are horse nomads, cattle-breeders, and fishermen, in some places agriculturists. They represent a case of degeneration under the influence of environment. Author

treats area, distribution, number and history; linguistics, physical type, skills and crafts: fur tents, horse- and also reindeer buck-riding, tattooing, decorated aprons, birch-bark canoes. Social culture and religion are discussed: clans, marriage, birth, burial, initiation of a shaman, his clothes and drum; gods and spirits: animism, sacrifices, animal worship.

**Copy seen:** DLC.

**21328. CZAPLICKA, MARIE ANTOINETTE, d. 1921.** Yakut. (In: Hastings, James, ed. Encyclopaedia of religion and ethics, 1922. v. 12, p. 826-29)

Contains an account of this branch of the Turcic race numbering about 245,000 in 1912 and living in north-central Siberia, along the Lena, reaching the Amur and Sakhalin in the south, and as far northwest as the Yenisey. Their distribution, physical type, horse- and reindeer-breeding culture and seasonally nomadic life, are noted. Northern Yakuts are hunters, fishermen and reindeer-breeders. They understand the smelting of iron and are the cleverest traders in northern Siberia. Their social organization, religious customs and shamanism are described and their folklore, the richest of all Siberian natives.

**Copy seen:** DLC.

**21329. CZEKANOWSKI, JAN.** Zur Anthropologie der Ugrofinnen. (Suomalais-ugrilainen seura. Toimituksia. 1933. no. 67, p. 65-71) **Title tr.:** On the anthropology of Ugro-Finns.

Contains an account of racial affinities on basis of physical characteristics. The Lapps and Samoyeds are brachycephalic, the Finns midway between Lapps and Swedes in regard to skull index. The paleo-asiatic race is best represented among the Ostyaks. Voguls show strong influence of the arctic anthropological type, although the paleo-asiatic race components are prevailing. Typical representatives of the arctic race are the Eskimos. The Zyryans show many elements of nordic and lapponoid races which overshadow their paleo-asiatic anthropological type. The most typical representatives of the lapponoid race are the Samoyeds and the Lapps living on the arctic shore of Kola Peninsula. The Scandinavian Lapps, having now some nordic racial influence, may be considered as ugro-finnized Samoyeds.

**Copy seen:** DLC; InU.

**21330. CZERNY, ABT LEANDER.** Ergänzungen und Berichtigungen zu meiner Monographie der Helomyziden, III, VII, IX. (Konowia, 1928. Bd. 7, heft 1, p. 52-55; (VII) 1932, Bd. 11, heft 3, p. 209-217; (IX) 1935, Bd. 14, heft 3, p. 271-87) **Title tr.:** Additions and corrections to my *Monographie der Helomyziden* III, VII, IX.

Contains in (pt. III) a key to the species of the genus *Oecothoa* and descriptive notes on *O. fidelis* native to Wrangel Island (Chukchi Sea). In pt. VII, tables are given for the determination of ten genera and for the species of the genera *Fenwickia*, *Aneuria* and *Diastata*, with descriptions of some species, including *Tephroclamys steniusi* native to northern Finland, Sweden and Kola Peninsula. In pt. IX, are keys to the genera and the species of the genera *Suillia* and *Anorostoma* and descriptions of some new or noteworthy species, including *Suillia crinipes* n. sp. from the Shantar Islands (Okhotsk Sea) and *S. penicularis* n. sp. native to Kamchatka Peninsula. This group of papers, the other parts of which do not contain arctic material, were published as a supplement to the author's *Monographie der Helomyziden*, 1925.

**Copy seen:** MH-Z.

**21331. CZERNY, ABT LEANDER.** Palaearktische Helomyziden des Zoologischen Instituts der Akademie der Wissenschaften d. U.d.S.S.R. (Diptera). (Akademiia nauk SSSR. Zoologicheskii institut. Trudy, 1932. t. 1, vyp. 1, p. 25-33) **Title tr.:** Palaearctic Helomyzidae of the Zoological Museum of the Academy of Sciences of the U.S.S.R.

Contains a critical revision of 44 palaearctic species of Helomyzidae, with descriptions of seven new species, keys to the species and data on distribution. A few species native to Kola Peninsula, northern Siberia and Kamchatka, are included. Summary in Russian.

**Copy seen:** DLC; MH-Z.

**DVFAN, see Botanicheskii sektor DVFAN.** Itogi izucheniiia pastbishch DVK. 1938. No. 20849.

**21332. DADYKIN, V. P.** Nekotorye opyty po peredvizheniiu vody v merialoi pochve. (Pochvovedenie, Sept. 1952. no. 9, p. 794-801, diagr., tables) **Title tr.:** Some experiments on the movement of water in frozen ground.

Contains a report on experiments de-

signed to test the possibility of plants being able to take up water directly from frozen ground. Vetch seeds were placed directly into holes drilled in frozen ground and covered with it, or into clay, sand, etc., kept at various, below-freezing temperatures, or into ice blocks kept under similar conditions. There was swelling and gain in weight of the seeds placed in frozen ground, suggesting a possibility of movement of water in frozen ground and an uptake of it by the seeds. Whether in this and in the other media, the water was taken up directly from the ice crystals could not be ascertained. Bibliography (5 items).

**Copy seen:** DLC.

**21333. DAHL, EILIF, 1916-** . On different types of unglaciated areas during the ice ages and their significance to phytogeography. (New phytologist, Dec. 1946. v. 45, p. 225-42, maps, diagrs.)

"The presence of a dominant western arctic element in the alpine flora of Scandinavia suggests the survival of plants in ice-free refuges during the last ice age. Two types of unglaciated areas are described: the coastal mountain type, of which the Troms and Møre areas of the Norwegian coast are examples, and the tundra type found in Siberia, northern Norway, Spitsbergen, northern Greenland, arctic Canada, and Novaya Zemlya. The characteristic flora and climate of both types are discussed."—Geological Society of America, *Bibliography and index of geology*. Bibliography (42 items).

**Copy seen:** DA; DGS.

**21334. DAHL, EILIF, 1916-** . Studies in the macrolichen flora of South West Greenland. København, C. A. Reitzel, 1950. 176 p., 7 plates, fold. map. (Meddelelser om Grønland. Bd. 150, nr. 2)

Contains results of the author's collecting trip during July-Sept. 1937 along the coast and in the fiords south of Ivigtut to Agdluitsaq (about 61°15'-60°30' N.) and his study of museum specimens from the area north to Godthaab, 65°17' N. A classified, fully annotated list is presented, with synonymy, localities, keys, and (frequently) descriptions of 198 species of lichens. Included are descriptions of one new family, two new genera, nine new species, and six new varieties or forms; records of species new to the Western Hemisphere or to Greenland; indication of distributional types (conti-

nental and oceanic); discussion of phytogeographic characteristics. Author gives also a useful list of localities from earlier papers, 1830-1937, with geographic coordinates worked out. Bibliography (26 items). Reviewed by F. Mattick in *Polarforschung*, 1951. Bd. 3, Jahrg. 21, p. 56-57. **Copy seen:** DGS; DLC.

**21335. DAHL, ERIK.** Epicaridea and Rhizocephala from northern Norway with a discussion of the bathymetrical distribution of Rhizocephala. Tromsø, 1949. 44 p. (Tromsø, Norway. Museum. Årshefter, 1946. v. 69, nr. 1. Naturhistorisk avd. nr. 37)

Contains survey of two groups of parasitic Crustacea (Isopoda and Cirripedia) occurring on other crustacean species of Greenland, White and Barents Seas, especially northern Norwegian waters. For each of 16 species is given information on occurrence, distribution, taxonomy, ecology and hosts; with notes on bathymetric range and hosts examined; and a bibliography (48 items).

**Copy seen:** DGS.

**21336. DAHL, ERIK.** Two new Amphipoda of the genus *Gammarus* from Finnmark. (Norske videnskabers selskab, Trondhjem. Forhandlingar, 1937, pub. 1938. Bd. 10, nr. 34, p. 125-28, illus.)

Contains English descriptions of *Gammarus finmarchicus* and *G. obtusatus* n. spp., two marine amphipod crustaceans, from Hasvik, Sørøy, Finnmark; and critical notes on some related species.

**Copy seen:** DLC; MH.

**21337. DAHL, OVE CHRISTIAN, 1862-1940.** Oversigt over det Kongelige Norske videnskabers selskabs botaniske samlinger. (Norske videnskabers selskab, Trondhjem. Skrifter, 1888-90, pub. 1892, p. 53-101) **Title tr.:** A survey of botanical collections of the Royal Norwegian Scientific Society.

Contains a description of botanical collections deposited in the Norwegian Scientific Society at Trondhjem, including a collection of vascular plants donated by Kristiania University in 1889, plants collected in western Finnmark in 1841 by N. Lund, herbaria of Deiboll, Wille, Gunnerus, Tyrholm, and data on other less important plant collections. Includes (p. 88-98) a catalog of Deiboll's *Flora lapponica*, with 217 plant names.

**Copy seen:** DLC; MH-Z.

**21338. DAHLBECK, NILS ERIK, 1911-** . *Arenaria humifusa* Wg. och skyddet av sällsynta växter. (Acta phytogeographica suecica, 1940. t. 13, Växtgeografiska studier tillägnade C. Skottsberg, p. 287-90, plates 26-28) **Title tr.:** *Arenaria humifusa* Wg. and the protection of rare plants.

*Contains* a report of the rediscovery of *Arenaria humifusa* Wg. near Tokivaare in Lule Lappmark, a brief description of the habitat ecology of *A. ciliata* subsp. *norvegica* and *A. humifusa*, and a discussion of the protection of rare plants. Summary in English.

**Copy seen:** DA; MH-A.

**21339. DAHLBERG, ALBERT A.** The dentition of the American Indian. (In: Viking Fund Summer Seminar in Physical Anthropology. 4th, Sept. 1949. *Papers on . . . the American Indian*, 1951, p. 138-76)

*Contains* sections on: the concept of dentition and characters; the incisor teeth; canines; premolars; lower molars; upper molars, and measurements. The dentition of the Indians is analyzed and compared with that of the Eskimos and other groups. It is described as "having large teeth, pronounced shovel-shaped incisors with occasional barrel-shaped lateral incisors, triangular occlusal surfaces on lower first deciduous molars, a high incidence of three-cusped upper second and third molars, a high incidence of Y5 patterns on lower first permanent molars, a high percentage of + grooved and five-cusped second and third lower molars and a low percentage of small Carabelli's cusp." **Copy seen:** DAI.

**21340. DAHLGREN, EDWIN HAROLD. 1937-** , and **L. N. KOLLOEN.** Outlook for the Alaska herring fishery in 1943-1944. Chicago, 1943-44. 16, 18 p. incl. tables. (U. S. Fish and Wildlife Service. Fishery leaflet no. 16. Special scientific report no. 25) Mimeographed.

*Predictions* of abundance upon which annual catch quotas are set, based on a continuous study of the Alaska herring by the U. S. since 1925, and a method described in the Leaflet for 1943. Includes ratios of increment and decrement of herring stock and some notes on age-classes for the Kodiak, Prince William Sound and southeastern Alaska waters.

**Copy seen:** DI.

**21341. DAHLL, TELLEF.** Om Finnmarksens geologie. (Norske videnskaps-aka-

demi, Oslo. Forhandlingar, 1867, pub. 1868, p. 213-22, plate) **Title tr.:** On the geology of Finnmark.

*Contains* a geological profile from Kvenangenfjorden, through Alten and Polmak to Vardöhus in Finnmark province (plate), and data on rock formations, their structure and geological age. **Copy seen:** MH-Z.

**21342. DAHLSTEDT, GUSTAF ADOLF HUGO, 1856-1934.** Anteckningar till kännedomen om Scandinavien *Hieracium*-flora, I. Stockholm, I. Marcus' boktr., 1893. 146 p. (Bergielund. Svenska vetenskaps-akademiens trädgård, Meddelanden, 1892-97. Bd. 2, no. 4) **Title tr.:** Contributions to the knowledge of *Hieracium* flora of Scandinavia, I.

*Contains* an enumeration of about one hundred species, most of them new, of the herbaceous genus *Hieracium* of Scandinavia, with Latin diagnoses, critical notes and data on distribution; includes many species native to northern Norway and Swedish Lapland.

**Copy seen:** MH-A.

**21343. DAHLSTEDT, GUSTAF ADOLF HUGO, 1856-1934.** Ueber einige im Bergianischen botanischen Garten in Stockholm kultivierte Taraxaca. Stockholm I. Marcus' boktr., 1907. 31 p., illus., plates 1-2. (Bergielund. Svenska vetenskaps-akademiens trädgård. Meddelanden. Bd. 4, no. 2) **Title tr.:** On some species of *Taraxacum* cultivated in Bergielund Botanical Garden, Stockholm.

*Contains* descriptions of nine species of herbaceous genus *Taraxacum*, with Latin diagnoses of seven new species; includes *T. macroceras* and *T. hjeltii*, native to Swedish Lapland. **Copy seen:** MH-Z.

**21344. DAHM, ANDERS G.** On *Bothrioplana semperi* M. Braun (Turbellaria Allocoecoela Cyclocoela). The taxonomy of the "genera" and of the known "species" of the family Bothrioplanidae. (Arkiv för zoologi, 1951. Ser. 2, bd. 1, häfte 6, no. 33, p. 503-510, text map, plate)

*Contains* a taxonomic study of a turbellarian, *Bothrioplana semperi*, native to northern Scandinavia, Kola Peninsula and southwestern Greenland, with data on its anatomy, ecology (ground waters and ephemeral small pools), and geographic distribution. Taxonomy of the genera and species of the family Bothrioplanidae is discussed.

**Copy seen:** MH-Z.

**21345. DALE, GEORGE A.** Northwest Alaska and the Bering Sea coast. (*In*: Sanders, I. T., ed. *Societies around the world*, 1952, p. 111-130)

Contains a sketch of the process of Eskimo acculturation as noted during 1935-49 by this officer of the Alaska Native Service: changes in the fishing and hunting techniques, new forms of dwellings and domestic utensils such as lamps, stoves; mixture of the old type skin clothing with imported commercial garments; transport by aircraft as well as dog team and umiak. Eskimos' skill with automotive equipment and their employment by whites, use of English language, developments in schools, etc., are outlined. Changes in social organization: behavior problems resultant from contact with the whites (rise in tuberculosis, illegitimacy, etc.) are noted. Community organization in native villages, social control, attitudes and beliefs are characterized under the rapid expansion of the present-day Alaskan economy.

**Copy seen:** DLC.

**DALE, GEORGE A.,** see also Sanders, I. T. *Societies around the world*. 1952. No. 25824.

**21346. DALE, ROBERT F.** Alaska co-operative weather observer. (Alaskan agriculturist, June 1951. v. 3, no. 2, p. 20-22, graph)

"Synoptic reporting network in Alaska is described, and the cooperative observer network and its purpose are outlined. A series of frequency curves are presented, which show chances of spells of dry weather of 3, 5 or more days in June-October based on 31 years of record at Palmer, Alaska, as an example of the possible uses of such data as are collected daily by 34 unpaid cooperative observers of Alaska. Names of observers at each station are listed, one with 20 years of service."—*Meteorological abstracts and bibliography*, Apr. 1952. v. 3, p. 317.

**Copy seen:** DWB.

**21347. DALGETY, CHRISTOPHER THOMAS, and P. SCOTT.** A new race of the whitefronted goose. (British Ornithologists' Club. Bulletin, May 1948. v. 68, p. 109-121, illus., 2 plates)

Contains detailed notes on characteristics, especially of bill color, of *Anser albifrons* and proposal of a new race, *A. a. flavirostris*, for the goose which nests on West Greenland and winters in Ireland.

**Copy seen:** DSI-M.

**21348. DAL'NE-VOSTOCHNYY KRAY. ISPOLNITEL'NYĖ KOMITET SOVE-TOV.** Dva goda raboty Dal'ne-Vostochnogo kraevogo ispolnitel'nogo komiteta Sovetov RKK i KD za 1926/7-1927/8 g g.; materialy k otchetu 3-mu kraevomu s'ezdu Sovetov. Pod. red. P. I. Neznakhina, M. P. Kopytina, P. A. Shishl'annikova. Khabarovsk, 1929. xii, 401 p., diags. **Title tr.:** Two years' work of the Far-Eastern executive committee of the Soviets of RKK and KD, for 1926/7-1927/8; materials for the Report before the 3d district convention of the Soviets. Edited by P. I. Neznakhin [etc.]

Contains an extensive collection of data on developing the economy of this area including its northern parts, particularly under the heads: forests and timber industry, fisheries and canning, hunting and fur protection. In addition, problems common to all parts of the area are discussed, such as names, trade, communications, socio-cultural development.

**Copy seen:** DLC.

**21349. DAL'NE-VOSTOCHNYY KRAY. SOVET NARODNOGO KHOZĖISTVA.** Materialy rabot 1-go plenuma Dal'ne-Vostochnogo kraevogo soveta narodnogo khozĖistva (13-18 apreĖa 1929 g.) Khabarovsk, Izd. P.E.U., DKSNNK, 1929. 101 p., tables. **Title tr.:** Materials on the activities of the first plenary of the Far Eastern Soviet of National Economy (April 13-18, 1929).

Contains, in addition to reports on the previous year, and as the larger portion of the book, an outline of the 5-year plan (1928-33) for the development of the economy of the Far East. Includes in data on such industries as fur production, forest and timber products, fisheries and canning, materials on the northern regions.

**Copy seen:** DLC.

**21350. DAL'NE-VOSTOCHNYY KRAY. STATISTICHESKIĖ OTDEL.** Spisok naselennykh mest Dal'nevostochnogo kraĖa; po materialam VsesoĖuznoi perepisi naseleniĖa 17 dekabriĖa 1926 goda i PripolĖarnoi perepisi 1926-27 goda. Khabarovsk, 1929. 229 p. **Title tr.:** List of populated places of the Far Eastern region as recorded by the All-Union census of December 17, 1926 and by the Polar region census of 1926-27.

Contains census statistics arranged in tables and dealing with the number of households and of people, their na-

tionality and sex. The material is arranged according to geographical-administrative divisions and subdivisions.

*Copy seen:* DLC.

**21351. DAL'NE-VOSTOCHNYY KRAY. UPRAVLENIE RYBOLOVSTVA I OKHOTY NA MORSKOGO ZVERIA.** Rybnye i pushnye bogatstva Dal'nego Vostoka; [Vladivostok] Izd. Nauchpromburo Dal'rybokhoty, 1923. vi p., 1 l., 478 p. illus. *Title tr.:* The fish and fur resources of the Far East.

*Contents tr.:* ALEKSIN, M. S. Present-day condition of fisheries in the Far East and their immediate prospects.

KUZNETSOV, I. I. Importance of the salmon industry in the Far East, and of artificial fish propagation as one of the main means of protecting the fish stock.

Borisov, T. M. Fish trade in China.

Voronov, K. I. Fish-canning industry in the Far East.

Lel', A. Labor problems in the fishing industry.

GAPANOVICH, I. I. The whaling and sealing industry in the Far East.

KOLOBOV, V. O. Prospects of the Far-Eastern fisheries.

DOBROVOL'SKIĬ, I. D. The amount of fur production and the fur trade in the Far East.

Bonch-Osmolovskii, A. F. Export routes and markets for Russian fur.

ARSEN'EV, V. K. The Komandorskiye Islands in 1923.

Voronov, K. I. A short review of events and life of the fisheries economy.

An important collection of papers with a great amount of statistical material and expert information. The six papers dealing particularly with the North appear in this bibliography under their author's names. *Copy seen:* DLC.

**21352. DAL'NEVOSTOCHNYY KRAEVOY SOIŪZ RYBOLOVETSKIKH KOLKHOZOV.** Organizatsiia truda i raspredelenie dokhodov v rybolovetskich kolkhozakh Dal'nevostochnogo kraia; polozhenie. Moskva, Dal'nevostochnoe kraevoe izd-vo, 1933. 71 p. *Title tr.:* Organization of labor and income distribution in the fishing collectives of the Far Eastern area; the situation.

Report on working conditions, duties, organization and equipment of the industry followed by a budgetary and economic survey. Includes data on

fisheries based on the northern Primor'e (Maritime Province) and Sakhalin.

*Copy seen:* DLC.

**DANENHOWER, JOHN WILSON, 1849-1887,** see U. S. Congress. House. Committee on Naval Affairs. *Jeannette inquiry. 1884. No. 26911.*

**21353. DANIELSON, R. N., and F. W. KINARD.** Effects of temperature of local baths on deep muscle temperature. (Journal of applied physiology, 1951. v. 4, p. 373-77)

*Contains* an account of observations on dogs with limbs immersed in water of 15° to 45° C. At temperatures differing from that of the body, the deep muscle temperature changed promptly and markedly in the direction of the bath temperature; occlusion of circulation enhanced this change. Rectal temperatures are affected similarly but to a lesser extent; they remain unaffected when circulation is occluded. Bibliography (11 items).

*Copy seen:* DLC.

**21354. DANIELSSEN, DANIEL CORNELIUS, 1815-1894.** Actinida of the Norwegian North Atlantic Expedition. (Bergen. Norway. Museum. Aarbok, 1887, pub. 1888. nr. 1, p. 1-24, plates 1-3)

*Contains* descriptions of two species of coelenterates, *Fenja mirabilis* and *Aegir frigidus* collected by the Norwegian North Atlantic Expedition in Greenland Sea, with data on systematics, morphology and biology.

*Copy seen:* MH-Z.

**21355. DANIELSSEN, DANIEL CORNELIUS, 1815-1894.** Beretning om en zoologisk reise foretagen i sommeren 1857. (Nytt magasin for naturvidenskapene, 1861. Bd. 11, hefte 1, p. 1-58) *Title tr.:* A report on a zoological journey in the summer of 1857.

*Contains* account of the author's exploring trip to Nordland, Tromsø and Finnmark in the summer of 1857, to study the marine fauna of Norwegian coastal waters; with an enumeration of 49 marine crustaceans, a systematic table of over 200 molluscs found in Nordland and Finnmark waters with notes on habitat, distribution in Norway and critical comments, a systematic list of 31 echinoderms, 39 bryozoans and 56 annelid worms. Apparently a preliminary report, this includes many new species, but mostly without descriptions.

*Copy seen:* MH-Z.

**21356. DANIELSSEN, DANIEL CORNELIUS, 1815-1894.** Om to nye arter Bryozoa. (Norske videnskapsakademi, Oslo. Forhandling, 1867, pub. 1868. p. 23-24) **Title tr.:** On two new species of Bryozoa.

Contains descriptions of *Kinetoskias arborescens* and *K. smithi* n. spp., found in Norwegian coastal waters near Vadsø 70°05' N. (Finnmark) and Slotholmen (Nordland) respectively.

**Copy seen:** DLC; MH-Z.

**DANIELSSEN, DANIEL CORNELIUS, 1815-1894, see also** Bock, S. *Epitheliosoma* not gephyrean. 1921. No. 20751.

**DANIELSSEN, DANIEL CORNELIUS, 1815-1894, see also** Koren, J., & D. C. Danielssen. Beskrivelse om slægten *Solenopus*. 1877. No. 23387.

**21357. DANILOV, AFANASII NIKOLAEVICH, 1879-1942, and others.** Reaktsiia nekotorykh rastenii Zapol'ar'ia na polusutochnoe zatemnenie. (Akademiia nauk SSSR. Botanicheskii institut. Trudy, seriia 4, Eksperimental'naiia botanika, 1950. vyp. 7, p. 47-58) **Other authors:** N. N. Gortikova and I. E. Znamenskii. **Title tr.:** Reaction of some plants of the arctic region to half-day darkening.

Contains an ecological study on changes in plants as a result of periodic covering during the day (12 hrs.) or night (12 hrs.). Various species in Kola Peninsula were observed: *Empetrum*, *Phyllodoce*, *Vaccinium*, and *Solidago*. Data are presented on their water content, osmotic pressure, pH of the cell juice, pigments of plastids, and enzyme activity.

**Copy seen:** MH-A.

**DANILOVA, V. V., see** Men'sillov, A. A., & others. Khrom i ftor v vulkanicheskikh produktakh. 1947. No. 24290.

**DANSEREAU, PIERRE, see** Baird, P. D., & others. Baffin I. Exped. 1950; prelim. report. 1950. No. 20413.

**21358. DANSK PEARYLAND EKSPEDITION, 1947-1950.** Haandbog. [København, 1948]. 3 p. l., 9-217 p., incl. 16 numbered blank p. for notes, 2 fold. maps. **Title tr.:** Manual of the Danish Pearyland Expedition, 1947-1950.

Edited by S. Seehusen, this expeditionary manual contains list of its personnel with assignments, airplanes, ships, radio and supplies, equipment, instruments, houses, provisions, supplies, books

and recordings taken out or sent out, indicating location of caches and stores. Useful information on distances, signals, conversion tables, etc., is also given. The expedition led by Eigel Knuth established a base and wintering station on Jørgen Brønlunds Fjord, northeast Greenland.

**Copy seen:** DLC.

**DARLING, R. C., see** Belding, H. S., & others. Analysis factors energy balance extreme cold. 1947. No. 20540.

**DARLING, R. C., see also** Belding, H. S., & others. Thermal responses & efficiency of sweating. 1947. No. 20542.

**DARLING, R. C., see also** Russell, H. D., & others. Physiol. reactions men working in cold. 1946. No. 25721.

**21359. DARLINGTON, C. R.** The variation of humidity with height over the ocean. 4 p., 14 p. of charts, 2 tables. (Great Britain. Meteorological Research Committee, M. R. P. 725, May 12, 1952) Mimeographed.

"During cruises in Arctic and northern waters and in SW. North Atlantic numerous observations of dry and wet bulb temperature were made at 0-30 ft. above sea. These are set out in detail with associated wind and weather. Mean profiles of temperature and vapor pressure are shown graphically. The theory of evaporation is set out and Montgomery's 'evaporation coefficient' and rate of evaporation are calculated for unstable and stable, rough and smooth conditions, from vapor pressure at 0 and 20 ft. Results are erratic but in general agreement with theory."—*Meteorological abstracts and bibliography*, Nov. 1952. v. 3, no. 11, p. 1159.

**Copy seen:** DWB.

**DASSOW, JOHN ALBERT, 1917- , see** Sanford, F. B., & others. Vitamin-A potencies of liver oils Bering Sea cod & flounder. 1950. No. 25833.

**21360. DAVID, R., and A. GUERINDON.** Influence stimulante exercée par le froid sur la germination des graines de pin maritime. (Société de Biologie, Paris. Comptes rendus, mai 1951. t. 145, no. 9-10, p. 715-17) **Title tr.:** Stimulating influence exercised by cold on the germination of seeds of the maritime pine.

Contains a study on pine seeds exposed to +2° C. from 13 to 309 days. The exposure to cold increased considerably the germinative qualities of the seeds. Bibliographical footnotes.

**Copy seen:** DLC.

**21361. DAVIDENKOV, S. N., and A. F. VERBOV.** Nevrity otmorozhennykh. (Klinicheskaya meditsina, 1943. t. 21, no. 10-11, p. 18-25) *Title tr.*: Neuritis following frostbite.

*Contains a report on cases of neuritis often following frostbite. Their symptoms and characteristics (with case histories), types, pathology, etc., are given.*

*Copy seen:* DLC.

**DAVIDOV, see** Hiehle, K. Neuer Lebensraum für 100 Millionen Menschen. 1950. No. 22614.

**21362. DAVIDSON, ALAN.** Fuglelivet i landskabet Nordland, Norge. (Dansk ornithologisk forening. Tidsskrift, 1950. Årg. 44, hefte 2, p. 85-95, illus.) *Title tr.*: Bird life in Nordland province, Norway.

*Contains an account of the author's trip to Fellingfors in Finneid Fiord district (65°-67° N.) of Nordland, to study the bird life of the region. A list of about 80 species with notes on habitat and ecology, is given. Summary in English.*

*Copy seen:* MH-Z.

**21363. DAVIDSON, ALAN.** Ornithologiske iagttagelser i Nord-Finland og Finmark i Norge sommereen 1950. (Dansk ornithologisk forening. Tidsskrift, Feb. 1951. Aarg 45, p. 1-18, illus., incl. map; 2 plates) *Title tr.*: Ornithological observations in North Finland and Finmark in Norway in the summer of 1950.

*Contains field notes made in June-July, on 96 species of birds in three general localities north of 68° N. lat., including the Porsanger Fiord region; with account of the marsh, lake, and upper tree zone habitats visited. Summary in English.*

**21364. DAVIDSON, FREDERICK ALEXANDER, 1897- , and E. VAUGHAN.** Relation of population size to marine growth and time of spawning migration in the pink salmon (*Oncorhynchus gorbuscha*) of southeastern Alaska. (Journal of marine research, 1941. v. 4, p. 231-46)

*The cyclic trends in pink salmon populations are studied on the basis of commercial fishery data 1895-1940, and field investigations 1930-33. It is apparent that in large populations the individuals are small and migrate to streams late in the season, while in small populations individuals are large and*

*migrate early in the season. Bibliography (23 items). Copy seen:* DF; DSI-M.

**21365. DAVIDSON, JOHN FRASER, 1911- .** The genus *Polemonium* [Tournefort] L. (California. University. Publications in botany, 1950. v. 23, no. 5, p. 209-282, illus., 10 text maps)

*Contains a monographic treatment of herbaceous genus Polemonium with a key to 19 species and five subspecies, synonymy, critical notes and data on distribution. Some of the species treated are native to arctic regions of Eurasia and America.*

*Copy seen:* MH-A.

**21366. DAVIDSON, WILLIAM, 1918- .** On guard at the Pole. (Colliers, June 14, 1952, p. 15-18, 72, 74-77; June 21, p. 28-30, 70-72; June 28, p. 24-25, 63-65, col. illus., map)

*Journalist's account in three parts, with photographic illus., of bases developed in the North American Arctic during and since World War II, particularly the "outposts" consisting of weather station and airstrip at Mould Bay (Prince Patrick Island), Isachsen (Sverdrup Islands), Eureka Sound and Alert (Ellesmere Island) and Nord (North Greenland.) The first part outlines "Operation Nord", the construction of the newest of these, the joint Danish-U. S. installation at Nord on Princess Dagmars Peninsula in Peary Land which the author and the photographer, Lew Merrim, as Colliers' personnel visited. The second part called "Our sub-zero heroes" describes conditions of life at these outposts, outlines the development of these joint stations in Canada and Greenland as the Arctic Project of the U. S. Weather Bureau, and pays tribute to Charles Hubbard who initiated the project. Hubbard's work establishing airfields on the route across northern Canada-Greenland-Iceland to Britain during World War II is sketched. (See also Polar record July 1951. v. 6, no. 42, p. 280).*

*The third part, called "Outpost, alert at 'Alert'" deals with the activities, personnel and daily life at this station.*

*Copy seen:* DLC.

**21367. DAVIES, A. G.** Arctic cruise of H. M. Submarine *Ambush*, 1948. (Polar record, July 1950. v. 5, no. 40, p. 557-59)

*Contains a report of a patrol (approx. Feb. 21-Mar. 13) to test the effect of "snorting" (cruising below surface with*

the aid of the "schnorkel"). The submarine (1350 tons surface displacement, 287 ft. length) of post-war construction with radar and snort, had normal crew and equipment with addition of scientific measuring instruments and a special physiological observer aboard. Studies were made on surface and when submerged in all kinds of weather including a high gale.  
**Copy seen:** DLC.

**DAVIES, A. W.,** see Rodahl, K. Vitamin A in seals. 1949. No. 25617.

**21368. DAVIES, FRANK THOMAS, 1904- , and G. W. ROWLEY.** Deadman and Marble Islands. (Arctic circular, Nov. 1950. v. 3. p. 59-61)

*Contains* historical notes on two islands of Hudson Bay, 62°42' N. 91°13' W. on which are located graves of whaling seamen of an ill-fated expedition, in the early 18th century for the Hudson's Bay Co. The islands' geographic position and orientation, incorrectly shown on the 1948 edition of the Canadian National Topographic Series map sheet (8 mi.: 1 in.); are noted, also the shift in the magnetic North Pole as shown by observations 1854, 1912, and 1933.

**Copy seen:** CaMAI.

**21369. DAVIS, E. MOTT.** The archeology of northeastern Asia. Cambridge, Mass. Dec. 1940. 58 p. illus., map. (Excavator's Club. Papers. v. 1, no. 1)

*Contains* a review of the present status of archeology of the area, including Kamchatka (p. 11-19), the Amur basin, Sakhalin, the Vladivostok region and the remaining territory between the Lena and Bering Straits. Its scope includes all the time before the entry of the Russians about the beginning of the 18th century, and as much time after that as it took the natives to adopt iron. The sections on the specific areas present very concise accounts on expeditions: their heads, dates, etc., and the nature, location(s) and finds of their excavations. Comparisons of exploits, classification of remains, etc., are included. A list of archeological sites, arranged according to geographical areas, is appended. Bibliography (about 100 items).

**Copy seen:** DLC.

**DAVIS, JEROME A.,** see Bader, H., & others. Prelim. invest. snow. 1951. No. 20392.

**21370. DAVIS, LOYAL, and others.** High altitude frostbite; preliminary report.

(Surgery, gynecology and obstetrics, Dec. 1943. v. 77, p. 561-74, 21 fig., plate) *Other authors:* J. E. Scarff, N. Rogers, and M. Dickinson.

*Contains* remarks on the differences between high altitude frostbite, ordinary frostbite and immersion foot. Clinical types of high altitude frostbite are discussed, its pathology and treatment.

**Copy seen:** DLC.

**21371. DAVIS, MALCOLM.** Carrier pigeons in the polar regions. (Natural history, Mar. 1951. v. 60, p. 141-42, illus.)

*Contains* account of recent experiments in the Antarctic where the pigeon proved adaptable, successful against the skua, a predatory gull, and completely satisfactory in its missions.

**Copy seen:** DGS; DSI-M.

**21372. DAVIS, MALCOLM.** Hybrids of the polar and Kadiak bear. (Journal of mammalogy. Nov. 1950. v. 31, p. 449-50)

*Contains* report and discussion of production of hybrids to the F<sub>2</sub> generation, between 1936-49, at the National Zoological Park, Washington, D. C., with note that this fact may indicate a closer systematic position between *Ursus* and *Thalarcos* than their present classification indicates.

**Copy seen:** DSI-M.

**DAVIS, ROBERT TYLER,** see Portland Art Museum, Portland, Oreg. Native arts of Pacific NW. 1949. No. 25259.

**21373. DAVLAN-NIRGUNEEV.** Religioznye predstavleniia évenkov. (Taiga i tundra, 1928, no. 1, p. 43-45) *Title tr.:* Religious conceptions of the Évenki (Tungus).

*Contains* notes on a belief in a god who does not have a name, hunters' superstitions, divinations from dreams, purification with a plant called "senkira," piece of meat placed in the fire as offering, etc. The author is a Tungus.

**Copy seen:** DSI.

**21374. DAVYDOV, LEV KONSTANTINOVICH, 1893- .** Vodonosnost' rek SSSR, ee kolebanie i vliianie na nee fiziko-geograficheskikh faktorov. Leningrad, Gidrometeorologicheskoe izd-vo, 1947. 161 p. diagrs., tables, maps (1 fold.) *Title tr.:* Water discharge of the U.S.S.R. rivers, its variations and the influence of physico-geographical factors upon it.

*Contains* (in this technical scientific

monograph) sections on the influence of physico-geographic factors (climate, soil, vegetation, relief, sediments, etc.) on the mean, long-term discharge of the rivers of the U.S.S.R. (p. 5-77); discussion and tabular data on this discharge of rivers treated by regions (p. 78-118); fluctuations in the discharge of Soviet rivers (p. 119-57). Rivers of arctic or partly arctic character include those of the European taiga (p. 82-85) western Siberia (p. 102-104) eastern Siberia and the Far East (p. 112-15); the discharge of all larger Russian rivers is dealt with on p. 115-17. Bibliography (132 items).

**Copy seen:** DLC.

**DAWBER, MARK A.**, *see* U. S. Dept. of the Interior. Pribilof Islands Survey Group. Pribilof Island survey reports. Observations. 1949. No. 26947.

**DAY, ALBERT M.**, *see* U. S. Dept. of the Interior. Pribilof Islands Survey Group. Pribilof Island survey reports. Observations. 1949. No. 26947.

**21375. DAY, E. K.** Sewage and waste disposal problems. (U. S. Public Health Service. Public health reports, 1951. v. 66, p. 922-28)

Following an outline of the special problems connected with sewage and waste disposal in sub-arctic and arctic areas and their connection with the transmission of certain diseases, the author studies community systems, treatment processes, single premise methods and final disposal of waste and garbage. This is followed by a series of conclusions and recommendations.

**Copy seen:** DSG.

**21376. DAY, RICHARD L.** Regional heat loss. (*In:* Newburgh, L. H., ed. Physiology of heat regulation and the science of clothing, 1949. p. 240-61, illus., diags., tables)

*Contains* a description of local variations in heat loss, and the factors governing them, based largely on studies of the hand and on measurements of skin temperature, rate of perspiration and blood flow. Heat loss through the lungs is also discussed. Bibliography (37 items).

**Copy seen:** DLC.

**DAY, RICHARD L.**, *see also* Forster, R. E., & others. Relationship heat exchange & blood flow. 1948. No. 21891.

**DAY, RICHARD L.**, *see also* National Research Council. Subcommittee on

Clothing. Clothing test methods. 1945. No. 24577.

**DAY, RICHARD L.**, *see also* Van Dilla, M., & others. Laboratory & field studies: special problem of hands. 1949. No. 27033.

**21377. DEANE, WILLIAM F.** Muir Inlet ice factories. (U. S. Coast and Geodetic Survey. Journal, Jan. 1948. No. 1, p. 62-66, illus. sketch map)

*Contains* notes on historic visits in Muir Inlet, its glacier (59°05' N. 136°20' W.), and pre-glacial forests, Muir Glacier's recession since 1880; effect of its melt water and discharged icebergs on the survey party work in which the author participated.

**Copy seen:** DLC.

**21378. DEBETS, G. F.** Antropologicheskie issledovaniia v Kamchatskoi oblasti. Severo-vostochnaia ekspeditsiia, Trudy I, Moskva 1951. 262 p. diags., tables, maps. (Akademiia nauk SSSR. Institut etnografii. Trudy, novaiia seriia, t. 17) **Title tr.:** Anthropological investigations in the Kamchatka Oblast. Northeastern Expedition, Proceedings I.

*Contains* an account of the work conducted by the Northeastern Expedition in Kamchatka from March 1947 through the summer of 1948 on the reindeer-breeding Koryaks, the Itelmens (Kamchadals), Lamuts (Tungus), and the Russian-speaking people. The findings are compared and integrated with the same expedition's work on the Chukotsk Peninsula and vicinity commenced earlier (1945), and with its work in the Amur estuary, also with craniological material from various Russian museums. The aim of the whole project was to elucidate the "genetic relationship of the physical types of the so-called Paleo-Asiatic people (including the Eskimos and Ainus)" and to compare them with other types from Asia and America, and with ancient types. The account includes sections on: the material (p. 5-9); ethnogeographical differentiation of specific characters: pigmentation, hair, face, nose, etc. (p. 10-58); the problem of classification of the mongoloid types of northern Asia (p. 63-118). An appendix (p. 123-258) contains tabulated data concerning the somatology and craniology of material from Siberia, American, non-Russian Asia, etc. Arctic peoples dealt with in the tables include: Aleuts, Tlingits, Eskimos, Chukchis, Koryaks, Itelmens, "Kamchadals," Yukaghirs, Lamuts, old Russian

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inhabitants of Kamchatka, Evenki, Samoyeds, Yakuts, Dolgans, Nentsy, Mansy, Khanty, etc. Bibliography (about 150 items).

**Copy seen:** DLC.

**21379. DEBETS, G. F.** Antropologicheskoe issledovanie na Kamchatke; predvaritel'noe soobshchenie. (Akademiia nauk SSSR. Institut étnografii. Kratkie soobshcheniia, 1949. t. 5, p. 3-18) **Title tr.:** Anthropological study in Kamchatka; preliminary information.

Contains an account of the results of an expedition in Jan.-June 1947, organized by Institute of Ethnography. The party started from the village Markov on the Anadyr' River, proceeded to the seashore on Penzhina Bay, thence southward along Kamchatka Peninsula to the village of Khairûzovo. Anthropological measurements were made of 40 Chukchis, 201 Lamuts, 614 Koryaks, 175 Itelmens (a Kamchadal group), 165 Kamchadals, and 181 old Russian settlers (starozhily). The author gives an anthropological characterization of each group, tables with measurements, and stresses the tasks for further investigations.

**Copy seen:** DSI.

**21380. DEBETS, G. F.** Paleoantropologiya SSSR. Leningrad, 1948. 392 p. illus., diagrs., maps. (Akademiia nauk SSSR. Institut étnografii. Trudy, 1948. Novaya seriia, t. 4) **Title tr.:** Paleoanthropology of the U.S.S.R.

Contains on p. 155-56 notes on excavations made by S. V. Shmidt on Bol'shoy Oleniy Island near the Murmansk coast: the graves belong to the transition from the Arctic "neolith" to the "neo-metallic" epoch (about 1000 B. C.); two male and three female skeletons were excavated. They were thoroughly investigated by S. D. Sinitsyn in 1930, who concluded from the form of skull, that the early inhabitants of this island (69°13' N. 33°29' E. in Kola Bay) were very close to the recent Lapps.

**Copy seen:** DLC.

**21381. DEBETS, G. F.** Proiskhozhdenie korennykh naseleniia Ameriki. (Akademiia nauk SSSR. Institut étnografii, Trudy, 1951. Novaya seriia, t. 16, p. 323-38) **Title tr.:** The origin of the native population of America.

On the basis of linguistic, ethnographic and anthropological considerations, the author concludes that America was settled via the Bering Sea area some 10-25

thousand years ago by people of a Mongoloid type; some groups claimed to be of Oceanic origin also entered America through the Bering Sea, according to the author. A settlement directly from the Pacific Ocean, if it took place, was only on a very small scale and occurred relatively late. Bibliography (14 items).

**Copy seen:** DLC.

**21382. DEBETS, G. F.** Races néolithiques de la Sibirie orientale. (Antropologicheskii zhurnal, 1930. t. 19, vyp. 1-2, p. 49-50) **Title tr.:** The neolithic races of Eastern Siberia.

Contains results of author's investigation on neolithic skulls excavated in the district of Irkutsk during 1880-1927. Conclusions: there are five types of male skull and four types of female; the neolithic population was composed of two different elements; the so-called Baicalian type was found in the Tungus graves of the iron age in the Transbaykalia region; the Uralian (Voguls and Ostyaks) and North-American types form the Paleo-Siberian (Mongoloid) race.

**Copy seen:** DSI.

**DEBONS, ANTHONY,** see U. S. Arctic Aeromedical Laboratory. Survey human adjustment problems: adjustive behavior. 1950. No. 26886.

**21383. DECKER, CHARLES ELIJAH, 1868-** Ordovician graptolites from south-central Yukon. (American Association of Petroleum Geologists. Bulletin, Nov. 1950. v. 34, p. 2223-24, illus.)

Contains note on eight species of Graptoloidea found in slaty black shale, in the Pelly Mts. about 20 miles southwest from 62° N. 132°30' W.

**Copy seen:** DGS.

**DECKSBACH, N. K.,** see Deksbach, N. K.

**21384. DEGE, WILHELM, 1910-** Welche Kräfte wirken heute umgestaltend auf die Landoberfläche der Arktis ein? (Polarforschung, 1949, pub. 1950. Bd. 2, Jahrg. 19, p. 274-78) **Title tr.:** What forces today are transforming the surface features of the Arctic?

"The preparation of surface material for transport and the mode of material transport are discussed. Frost action is manifested in the scaling of coarse stones, cracking by the expansion of freezing water, the formation of ice needles on the

ground, and frost heaving. Transporting means include free fall, wind, and water. The most important type of mass transport is solifluction."—SIPRE.

**Copy seen:** DGS.

**21385. DEGELIUS, GUNNAR NILSSON.** Lichens from southern Alaska and the Aleutian Islands, collected by Dr. E. Hultén. (Göteborg, Sweden. Botaniska trågard. Meddelanden, 1937-1938, pub. 1937. t. 12, p. 105-144, illus. 4 plates)

Contains an enumeration of 130 species of lichens collected in 1932 by E. Hultén on the southern coast of Alaska, the Aleutian Islands and Kodiak Island: Synonymy, critical notes, Latin description and morphological data are given on *Sticta arctica*, *Cavernularia hulténii*, *Lecidea aleutica*, *Micoblastus marginatus* and *Perforaria minuta* n. spp.; one genus (*Perforaria*) and two species are new to the lichen flora of North America.

**Copy seen:** DSI-M; MH-A.

**21386. DEGELIUS, GUNNAR NILSSON.** On the lichen *Cavernularia hulténii* Degel and the problem of the glacial survival of spruce in Scandinavia. (Svensk botanisk tidskrift, 1952. Bd. 46, häft. 1, p. 53-61, text map)

Contains a study of this lichen living as epiphyte on spruce and birch in Norway, in connection with an investigation of the problem of glacial survival of spruce in Scandinavia; based on material from Nord-Trøndelag and Nordland.

**Copy seen:** MH-A.

**21387. DEGELIUS, GUNNAR NILSSON.** Das ozeanische Element der Strauch- und Laubflechten-Flora von Skandinavien. Inaugural-Dissertation. Uppsala, Almqvist & Wiksell, 1935. xii, 411 p. illus., diagr., 4 plates, text maps. (Acta phytogeographica suecica, 7) **Title tr.:** The oceanic element in the flora of the fruticose and foliose lichens of Scandinavia. An inaugural dissertation.

Contains a discussion of the concept of the "oceanic element" in the study of the fruticose and foliose lichens of Scandinavia, a survey of oceanic elements in the flora of Europe and especially of Scandinavia. 22 lichens of the oceanic group in Europe are enumerated with data on distribution in Scandinavia, Europe and outside of Europe, vertical distribution and variability (p. 36-186). The types of distribution in Europe,

Scandinavia and throughout the world are presented (p. 187-282), with explanation of the distribution (p. 233-305). Scandinavian localities, including those in Swedish and Finnish Lapland and northern Norway, given for 22 oceanic lichens enumerated (p. 306-370). Bibliography (about 800 items) and index of species.

**Copy seen:** DA; MH.

**DEICH, A. N.,** see Belonovskii, P. D. O metode professora Deicha. 1945. No. 20566.

**DEINBOLL, PETER VOGELIUS, 1783-1874,** see Natvig, L. R. Prosten Deinbolls insektsamling. 1942. No. 24588.

**21388. DEKATOV, H. E.** Vybor mest dlia gnezd kul'tur v taezhnoi zone. (Lesnoe khoziaistvo. Apr. 1950. n. s. v. 3, no. 4 (19) p. 50-53, illus., table) **Title tr.:** Choice of location for clump cultures in the taiga area.

Contains an account of reforesting felled areas by introducing new cultures of birch, aspen, pine and fir grouped in clumps or clusters. Data on soil, methods of planting, spacing, etc., rate of growth of stem, crown and roots of these plants, under various soil and planting conditions, are given and evaluated.

**Copy seen:** DLC.

**21389. DEKSKAKH, N. K.** Rasprostranenie *Dreissena polymorpha* Pallas (Mollusca) v evropeiskoi chasti SSSR i faktory, obuslovliвающие ee rasprostranenie. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten, 1935. Otdel biol. novaya seriia, t. 44, vyp. 4, p. 153-64, text map) **Title tr.:** Distribution of *Dreissena polymorpha* Pallas (Mollusca) in European Russia and factors influencing its distribution.

A study of the geographic distribution of a mollusc, *Dreissena polymorpha*, in twelve rivers of European Russia, including Severnaya Dvina in the Arkhangel'sk region, and discussion of factors contributing to its wide distribution. Summary in German.

**Copy seen:** DLC; MH-A.

**21390. DEKSKAKH, N. K.** Zur Verbreitung und Biologie der Apusiden in Russland. (Russkii gidrobiologicheskii zhurnal, 1924. t. 3, p. 143-45, text maps) **Title tr.:** On distribution and biology of Apusidae in Russia.

Contains a table of the distribution of fresh-water crustaceans of the genus *Apus*

(vernacular name: swifts) in various regions of Russia, and a survey of geographic distribution in European Russia (Bol'shezemel'skaya Tundra, Arkhangel'sk province, Novaya Zemlya and Vaygach Island) and in Siberia (Yenisey River (70° N.), Yana River, Novosibirskiy Islands and Lena River estuary); *Lepidurus arcticus* is a typical northern species, having a wide distribution in northern Europe and Asia.

**Copy seen:** MH-F.

**21391. DELACOUR, JEAN THEODORE, 1890-** . Preliminary note on the taxonomy of Canada geese, *Branta canadensis*. New York, 1951. 10 p. (American Museum of Natural History, N. Y. American museum novitates, no. 1537)

Discussion of present limitations to knowledge of breeding places, fly-ways, interbreeding and other habits, and a list of twelve (including with descriptions, three new) subspecies of the Canada goose, which occur throughout the North American Arctic and the east coast of Siberia. **Copy seen:** DGS; DSI-M.

**21392. de LAGUNA, FREDERICA, 1906-** . A pottery vessel from Kodiak Island, Alaska. (American antiquity, 1939. v. 4, no. 4, p. 334-43, 2 plates)

Contains description (and illus.) of a pot, found near Three Saints Bay by a local Eskimo; this vessel 31 cm. high was used for cooking; it is the finest example of Eskimo pottery known to the author; it was built up by patch modeling. Pottery of the surrounding area (Eskimo and Aleut, of which finds are very rare) is surveyed, also other scientists' finds in other areas. Eskimo pottery can be divided into three main groups: southern (age as yet undetermined), ancient northern, and modern northern. This unique pot from Kodiak must be assigned to the southern group. Bibliography. **Copy seen:** DLC.

**21393. de LAGUNA, FREDERICA, 1906-** . Preservation of archeological and ethnological material in Alaska. (In: Alaskan Science Conference . . . 1950. Selected papers, 1952. p. 52-59)

Contains an outline of the Preservation of American Antiquities Act (1906); its application in Alaska where rate of transformation of aboriginal culture is recently accelerated and need for preserving remains is acute. Sources of damage to cultural remains (particularly of Es-

kimos) are indicated, critical areas (where money economy prevails) noted, and suggestions are made towards program of effective salvaging of records of native life. **Copy seen:** DAI, DLC.

**21394. de LAGUNA, FREDERICA, 1906-** . Some dynamic forces in Tlingit society. Albuquerque Univ. of New Mexico Press, 1952. 12 p. (Southwestern journal of anthropology, Spring 1952. v. 8. no. 1)

Author analyzes and evaluates the three groups of factors which determine the structure of the communities and the orientation of the individual: factors of territory, kinship and class. Organization based on kinship is most important and through it territorial and class differences are manifested. The organization into moieties, sibs, subsibs, etc., is outlined and its effect upon social and individual behavior patterns traced. Similarly an analysis of family bonds and organization is given, with notes on the position of children in the sib, and on joking, festivals, etc. The data on which this paper is based was gathered by the author and Dr. Catharine McClellan among the northern Tlingits of Alaska on an ethnological and archeological expedition, supported by the Arctic Institute of North America with funds of the Office of Naval Research and several other agencies. Bibliographical footnotes. **Copy seen:** DAI; DSI.

**21395. de LESSE, HUBERT.** Coléoptères du Groënland. Expédition Polaire Française. Zoologie, 3e. note. (Entomologiste, Mai-Juin 1950, t. 6, no. 3, p. 73-76) **Title tr.:** Coleoptera from Greenland. French Polar Expedition. Zoology, 3d note.

Contains information on the way the collecting was done (summer 1949), the nature and surroundings of the locality at Ege (rising from the sea to the inland ice, at about 69°45' N. on the West Greenland coast), and the biotopes the beetles are living in. This is followed by an account of seven species found, with date, location and substrate of the find. **Copy seen:** DSI-M.

**21396. de LESSE, HUBERT, and others.** Expéditions Polaires Françaises, Missions P. É. Victor. Zoologie, 5e note, 1951. (Société entomologique de France. Bulletin, Avril 1951, t. 56, p. 53-61, illus., tables) **Other authors:** R. Strenzke and A. Thienemann. **Title tr.:** French

Polar expeditions (Missions of P.-É. Victor) Zoology, 5th note, 1951.

Contains a description of the material collected by the senior author on the west coast of Greenland in 1949. Nine forms of terrestrial chironomides (midges) are described by Strenze, mostly the larval stages; a reconstruction of their distribution in Europe is attempted; ecological notes on the localities where the finds were made is attached. Bibliography (8 items).

**Copy seen:** CaMAI; DSI.

**21397. de LESSE, HUBERT.** Notes zoologiques et botaniques sur l'ouest du Groenland. Expéditions polaires françaises, missions P.-É. Victor. (Terre et la vie. Oct.-Dec. 1950. v. 20, no. 4. p. 175-201, 3 plates, table) **Title tr.:** Zoological and botanical notes from western Greenland. French Polar Expeditions, P.-É. Victor Expeditions.

Contains a brief report on the insects and plants collected at Ege at the base of Atå Sund (69°45' N.) during this expedition's 1949 summer trip, in which author participated as entomologist. The itinerary (voyage on the *Fjellberg*) is given briefly, and notes on the climate of the area, ecology of the local plants, biotopes, local fauna especially insects, and the biogeography of Greenland in general. Bibliography (29 items).

**Copy seen:** CaMAI.

**21398. de LESSE, HUBERT.** Observations sur l'époque d'apparition et le comportement des lépidoptères du Groenland occidental et remarques sur leur homochromie. Expéditions polaires françaises, missions Paul-Émile Victor. (Revue française de lépidopterologie, Nov.-Déc. 1949, t. 12, no. 9-10, p. 163-69, plate) **Title tr.:** Observations on the time of appearance and on the behavior of the Lepidoptera of West Greenland with notes on their homochromy. French Polar Expeditions, Paul-Émile Victor Expeditions.

Contains itinerary of the Victor party Apr.-May 1949, to the point of study, Ege 69°45' N. on the West Greenland coast; summary of the collection of butterflies during June-Aug.; and note on the period of their appearance with the species arranged in chronological order of their collection and the location of the finds. This is followed by a section on homochromy, i. e. the monotony in colors, very strongly developed among the

observed butterflies. Bibliography (20 items).

**Copy seen:** DSI.

**21399. de LESSE, HUBERT, and P. VIETTE.** Zoologie, premier note: Microlepidoptera. Expéditions polaires françaises (Missions Paul-Émile Victor). Campagne 1949 au Groenland. (Société entomologique de France. Annales, 1946, pub. 1949. t. 115, p. 81-92, 14 illus.) **Title tr.:** Zoology, 1st note: Microlepidoptera. French Polar Expeditions (Paul-Émile Victor Expeditions). The campaign of 1949 in Greenland.

Contains an account of the small moths collected and studied at Ege on the western coast of Greenland at latitude 69°45' N. Five species are dealt with in detail, one of them *Agonopterix victori* n. sp., new. Taxonomical data, synonyms, ecology (in brief), related species, metamorphosis, etc. are discussed. Bibliography (6 items). **Copy seen:** DSI-M.

**21400. de LESSE, HUBERT.** Zoologie, 4e. note, Macrolepidoptera. Expéditions Polaires Françaises, Missions Paul-Émile Victor. (Société Entomologique de France. Annales, 1948. t. 118, p. 51-78, illus.) **Title tr.:** Zoology, 4th note, Macrolepidoptera. French Polar Expeditions Paul-Émile Victor Expeditions.

Contains descriptive notes on 19 species of butterflies collected on the West Greenland coast (69°45' N. lat.) during the second (1949) sojourn of the Victor Expedition in the Ekip Sermia region. A new species of geometrid moths, *Operophtera groenlandica*, n. sp. is isolated and described in full. For all the species, data on dates of appearance, area and altitude, vegetation, etc., are included. A summary of previous parties' collecting of Lepidoptera in the region introduces this report. Bibliography (over 40 items). **Copy seen:** CaMAI.

**de LESSE, HUBERT, see also Poulsen, E. M., & H. de Lesse.** Pêches planktoniques . . . les eaux douces. 1951. No. 25266.

**de LESSE, HUBERT, see also Victor, P. É., & others.** Rapport prélim. 1949. No. 27104.

**21401. DELIÂMURE, S. L.** Proiskhozhdenie prisposoblenii psevdalid k parazitirovaniu v okanakh dykhanii kitoobraznykh. (Akademii nauk SSSR. Gel'mintologicheskaiâ laboratoriiâ. Trudy 1951. t. 5, p. 98-104, illus.) **Title tr.:**

The origin, in pseudaliid worms, of adaptations to parasitism in the respiratory organs of whales.

Contains a study of the adaptations in four species of worms; these differ from those parasitizing in land mammals; their anatomic-physiological peculiarities make it possible for them to resist the periodic, brisk expirations without being swept out of the tracheae and bronchi. Bibliography (22 items).

**Copied seen:** DLC.

**DEMANT-HATT, EMILIE**, see Hatt, Emilie Demant.

**21402. DEMBO, T. M.** Petrograficheskoe issledovanie produktov plavleniia Khibinskoi apatito-nefelinovoii porody. (Vserossiiskoe mineralogicheskoe obshchestvo. Zapiski, 1937. Seriya 2, chast' 66, p. 517-22) **Title tr.:** Petrographic investigation of fusion products of the Khibiny apatite-nepheline rock.

Contains results of a study of thin sections of rock heated to 1000°, 1100°, 1200° and 1300°. Summary in English.

**Copied seen:** DGS.

**21403. DEMBO, T. M.** Sluchai metasomaticheskogo prevrashcheniia distena v paragonit v tsentral'noi chasti Kol'skogo poluostrova. (Vserossiiskoe mineralogicheskoe obshchestvo. Zapiski, 1935. Seriya 2, chast' 64, p. 416-20) **Title tr.:** A case of metasomatic metamorphosis of kyanite (distene) to paragonite in the central part of Kola Peninsula.

Contains results of chemical and optical analyses of a mineral discovered in the schist along a quartz vein on the Keiva Range, with which was associated muscovite, and near which, in the marginal zone, appeared kyanite replaced partly or totally by paragonite. Summary in English.

**Copied seen:** DGS.

**21404. De MENT, JACK ANDREW**, 1920-. Uranium in the polar regions. (Mineralogist, Sept. 1950. v. 18, p. 410, 412.)

Brief remarks on atomic laws in relation to national claims on arctic and antarctic areas, and general note on occurrence of uranium deposits in East Greenland.

**Copied seen:** DGS.

**21405. DEMENT'EV, GEORGIY P.** Dvadtsat' let ornitologicheskikh rabot v SSSR, 1917-1937. (Zoologicheskii zhurnal, 1937. t. 16, vyp. 5, p. 889-901)

**Title tr.:** Twenty years of ornithological work in the U.S.S.R. 1917-1937.

Contains a review of achievements in the study of ornithological fauna of the U.S.S.R. 1917-37, with data on field work in the northern region of European and Asiatic U.S.S.R., p. 895-97.

**Copied seen:** MH-Z.

**21406. DEMENT'EV, GEORGIY P.** Geograficheskie rasy *Surnia ulula* L. (Moskva. Universitet. Gosudarstvennyi zoologicheskii muzei. Sbornik trudov, 1934, t. 1, p. 101-108) **Title tr.:** Geographic races of *Surnia ulula* L.

Contains a critical revision of five geographic races of these hawk owls, including *S. ulula ulula*, distributed from Lapland through northern Europe and Asia to Bering Strait and Kamchatka.

**Copied seen:** DLC; MH-Z.

**21407. DEMENT'EV, GEORGIY P.** K avifaune severnogo poberezh'ia Okhotskogo moria. (Moskva. Universitet. Gosudarstvennyi zoologicheskii muzei. Sbornik trudov, 1935, no. 2, p. 56-60) **Title tr.:** On the avifauna of the northern shore of the Okhotsk Sea.

Forty-one species collected in 1938, are listed and partly described.

**Copied seen:** DLC.

**21408. DEMENT'EV, GEORGIY P.** K geograficheskoiu rasprostraneniui i sistematike gornoii triasoguzki. (Moskva. Universitet. Gosudarstvennyi zoologicheskii muzei. Sbornik trudov, 1936, t. 3, p. 189-95) **Title tr.:** Geographic distribution and systematics of the mountain wagtail.

Contains data on the geographic distribution of *Motacilla cinerea* Tunst., a bird spreading to the Kamchatka Peninsula on east, to 66°40' N. in the Ob' and Yenisey basins, and in the Yana River region of Yakutia, U.S.S.R., and to Lapland in Scandinavia.

**Copied seen:** MH-Z.

**21409. DEMENT'EV, GEORGIY P.** Materialy k avifaune Koratskoi zemli. Moskva, 1940. 81 p. (Moskovskoe obshchestvo ispytatelei prirody. Materialy k poznaniui fauny i flory SSSR. Otdel. zool. Novaya seriya, vyp. 2 (XVII). **Title tr.:** Contributions to the avifauna of Koryak Land.

Contains a critical revision of birds of the Koryak region (between the Kamchatka Peninsula and the Anadyr' region),

with historical notes on the ornithological investigations there, physico-geographic data and a systematic list of 120 species with biological, taxonomic and biogeographic notes; bibliography (97 items). Summary in French.

**Copy seen:** MH-Z.

**21410. DEMENT'EV, GEORGIĬ P.** Mokhnogie sychi (*Aegolius funereus* Linnaeus, Aves) vostochnoi Palearktiki. (Akademika nauk SSSR. Zoologicheskii institut. Trudy 1933, pub. 1934. t. 2, vyp. 1, p. 41-49) **Title tr.:** *Aegolius funereus* Linnaeus (Aves) of eastern Palaearctic.

Contains a study of seven geographic races of an owl species, *Aegolius funereus*, living in the taiga region of the Palaearctic and distributed in Scandinavian and Russian Lapland, Arkhangel'sk region and northwestern Siberia; geographic races include *A. f. magnus* (Kolyma region and Kamchatka) and *A. f. jakutorum* (Yakutia).

**Copy seen:** DLC; MH-Z.

**21411. DEMENT'EV, GEORGIĬ P.** O geograficheskoi izmenchivosti vostochno-palearkticheskikh sapsanov (*Falco peregrinus* Tunst). (Moskva. Universitet. Gosudarstvennyi zoologicheskii muzei. Sbornik trudov, 1934. t. 1, p. 45-53, illus.) **Title tr.:** On the geographic variability in the eastern Palaearctic of the hawk *Falco peregrinus* Tunst.

Contains a study of seven geographic races of the peregrine falcon in eastern palaearctic regions, including *F. peregrinus leucogenys* native to arctic regions from Lapland to the Anadyr' in north-eastern Siberia, *F. peregrinus* subsp. from Yakutsk region and *F. peregrinus pealei* occurring in Commander Islands and Kamchatka Peninsula, with taxonomic and ecological notes.

**Copy seen:** DLC; MH-Z.

**21412. DEMENT'EV, GEORGIĬ P.** O nekotorykh sibirskikh elementakh avifauny evropeiskogo Severa. (Moskva. Universitet. Gosudarstvennyi zoologicheskii muzei. Sbornik trudov, 1936. t. 3, p. 185-88) **Title tr.:** On some Siberian elements of the avifauna of northern Europe.

Contains data on Siberian elements in the avifauna of northern Europe and spreading of some Asiatic species to Lapland in Scandinavia, to Kola Peninsula and the White Sea region; based on

the study of recent additions to ornithological collection of the Zoological Museum of the Moscow University.

**Copy seen:** DLC; MH-Z.

**21413. DEMENT'EV, GEORGIĬ P.** Ptitsy nashel strany. Moskva, Vserossiiskoe obshchestvo okhrany prirody, 1949. 240 p. illus., maps. **Title tr.:** The birds of our country.

Contains sections on the history of ornithology in Russia; the birds of Russia according to ecological areas; the anatomy of birds in relation to their mode of life (locomotion, food, migration, etc.); practical aspects (birds in agriculture and forestry, damages caused by birds, game-birds, etc.). Arctic birds are dealt with in the sections on marine fauna (p. 52-56), the tundra (p. 56-64) and partly in the sections on forest and mountain birds (p. 64-84, 96-104). **Copy seen:** DLC.

**21414. DEMENT'EV, GEORGIĬ P.** Ptitsy poluostrova Kanina. (Moskva. Universitet. Gosudarstvennyi zoologicheskii muzei. Sbornik trudov, 1935. no. 2, p. 23-55) **Title tr.:** The birds of Kanin Peninsula.

Contains a complete revision of the earlier lists of the avifauna of the peninsula with 16 new forms added. A zoogeographic section utilizes the results of the taxonomic study. Based on data from Russian Geographical Society Expedition to Kanin Peninsula under S. Grigor'ev in 1913 and on collections made there in 1931 and 1932 by A. Dmokhovskii, and A. Bannikov, respectively.

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**21415. DEMENT'EV, GEORGIĬ P., and others.** Ptitsy Sovetskogo Soiuza, t. 1, Moskva, Sovetskaiia nauka, 1951. 652 p., illus., 3 col. plates, 111 text maps. **Title tr.:** Birds of the Soviet Union, vol. 1.

Contains (in v. 1 of a work projected in 6 vols.) descriptions of nine orders of birds of the U.S.S.R., with keys to the orders and species, synonymy, descriptions, data on Russian and total distribution, variations and ecology. Includes many species native to northern regions. The orders treated in this volume by various specialists are: Falconiformes and Strigiformes, by G. P. Dement'ev; Pelecaniformes, Cuculiformes, Coraciiformes and Upupiformes, by A. M. Sudilovskaiia; Caprimulgiformes, by E. P. Spangen-

berg; Piciformes, by N. Gladkov; and Micropodiformes by E. S. Ptushenko.

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**21416. DEMENT'EV, GEORGIĬ P., and others.** Rukovodstvo k opredeleniū ptits SSSR. Moskva, Gos. izd-vo Sovetskaiā nauka, 1948. 449 p., illus. **Title tr.:** Guide to the identification of birds of the U.S.S.R.

**Contains** tables for the determination of orders, families, genera and 679 species of birds known from all parts of the U.S.S.R., with description of male and female, dimensions, weight, coloring, biological characteristics and data on distribution in the U.S.S.R., and other countries; a systematic list of all species and varieties of birds of Russian fauna, p. 401-424, a bibliography (389 items) arranged by regions, including the Arctic (37 items), northern European Russia (11 items), and Kamchatka (10 items); index of Russian and Latin names. Some parts of this guide were worked out by N. A. Gladkov, E. S. Ptushenko and A. M. Sudilovskaiā.

**Copy seen:** DLC; MH-Z.

**DEMOREST, MAX HARRISON, 1910-1942, see** Leighton, F. B. *Ogives of E. Twin Glacier Alaska. 1951. No. 23753.*

**21417. DENISOVA, L. A.** *Novye vidy Elateridae (triby Corymbitini i Elaterini). (Entomologicheskoe obozrenie, 1948. t. 30, no. 1-2, p. 40-47)* **Title tr.:** New species of Elateridae (tribes Corymbitini and Elaterini).

**Contains** diagnoses of 11 new species of snapping beetles from various regions, including *Selastomus (s. str.) reichardti* native to Yakutia. **Copy seen:** MH-Z.

**21418. DENISOVA, L. A.** *Obzor palearkticheskikh vidov podsemelstva Tenebrioninae (Coleoptera, Tenebrionidae). (Akademiiā nauk SSSR. Zoologicheskii institut. Trudy, 1940. t. 6, vyp. 1-2, p. 222-51, illus.)* **Title tr.:** A revision of palaearctic species of the subfamily Tenebrioninae (Coleoptera, Tenebrionidae).

**Contains** tables for the determination of the genera and species of darkling beetles (Tenebrionidae) of palaearctic regions and descriptions of 28 species and three varieties (one new species is described in French and Russian) with synonymy, critical notes and data on distribution. Includes two meal worms,

*Tenebrio obscurus* and *T. molitor*, occurring in all arctic regions.

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**21419. DENMARK. GREENLAND DEPT.** Report on Greenland 1951. Copenhagen, 1951. 115 leaves, illus., tables, diagrs. Process printed.

**Contains** in this third annual report presented to the United Nations, a comprehensive account of the country and its conditions (mainly as of 1950-51, but some statistical data from 1947) noting particularly progress in implementation of recommendations of the Greenland Commission 1948-50 (chairman H. H. Koch, q. v.) In 4 parts: 1. General information (p. 1-12): population and vital statistics for 1949; government; legal development and human rights. 2. Social conditions (p. 13-37): racial and cultural relations; labor and employment; public health, sanitation, hospitals, etc.; housing; relief and welfare; crime and penal administration. 3. Educational conditions (p. 38-54): school and church activities; training of Greenlanders in Denmark; scientific research; press, radio, libraries, films, clubs, etc. 4. Economic conditions (p. 55-113): agriculture, animal husbandry, hunting, sealing and fishing; industry, including mining, power production, canning, handicrafts, etc.; standard of living; communications and transport; public finances; banking and credit; trade, including exports 1947/48-1949/50, and comment on inauguration of Danish non-governmental trade in Greenland. 37 photographic illus. of Greenlanders and their activities are included. For 1949 report, see *Arctic Bibliography* No. 2367.

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**21420. DENMARK. GREENLAND DEPT.** Report on Greenland 1952. Copenhagen, 1952. 113 leaves, 36 tables (process print).

**Contains** the fourth annual report presented to the United Nations on the country and its conditions (mainly in 1950-52, with some data however, going back to 1923). In four parts: 1. General information (p. 1-7): population and vital statistics (1950); government. 2. Economic conditions (p. 8-52): agriculture, forestry, fisheries; mining; power and power production; industry; transport and communications; finances; trade. 3. Social conditions (p. 53-91): race and cultural relations; human rights; status

of women and labor; standard of living; town and rural planning; social security; public health, etc. 4. Educational conditions (p. 92-113): administration and organization; adult education; buildings and equipment; youth and cultural organizations; research; nature protection; press, radio, movies, etc.

*Copy seen:* DAL.

**21421. DENMARK. METEOROLOGISK INSTITUT.** Meteorologisk årbog, 1943, 2<sup>e</sup>me partie, le Groenland. 1951. 57 p. (tables). (Denmark. Meteorologisk Institut. Publikationer[unnumbered]) In Danish and French. *Title tr.:* Meteorological yearbook, 1943, pt. 2, Greenland.

*Contains* data for Greenland, 1943, with daily values for seven stations, monthly and annual summaries for 15 stations.

*Copy seen:* DWB.

**DENNEY, ROY D.,** *see* Johnson, W. M., & others. Correlation climatol. data Bering Sea & Aleutian I. 1944. No. 23008.

**21422. DENNY, CHARLES STORROW, 1911-** . Late Quaternary geology and frost phenomena along Alaska Highway, northern British Columbia and south-eastern Yukon. (Geological Society of America. Bulletin, Sept. 1952. v. 63, p. 883-921, illus., maps, tables, diagrs.)

*Contains* an account of the glacial features (cirques, terraces, etc.) and deposits, and of the post-glacial frost action effects, such as talus slopes, stone rings, solifluction, and ice ramparts, and a discussion of the late- and post-glacial climate and history. Bibliography (58 items).

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**DENNY, CHARLES STORROW, 1911-** , *see also* Raup, H. M., & C. S. Denny. Photo interpretation terrain S. Alaska Highway. 1950. No. 25386.

**21423. DENNY-BROWN, D., and others.** Pathology of injury to nerve. (Journal of neuropathology and experimental neurology, Oct. 1945. v. 4, p. 305-323, 6 fig.) *Other authors:* R. D. Adams, C. Brenner, and M. M. Doherty.

*Contains* an account of experiments with cats in which sections of nerves were exposed to low temperatures; the physiological effects, the pathology and histology of the exposed nerves, were subsequently studied. Data on the selective damage to the myelin and axis cylinders, to nerve fibers and whole nerve bundles are given. Regeneration was rapid and

complete in all grades of injury short of total necrosis. Bibliography (18 items).

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**21424. De QUERVAIN, MARCEL.** Das Korngefüge von Schnee. (Schweizerische mineralogische und petrographische Mitteilungen, 1948. Bd. 24 Heft. 1, p. 518-27, illus.) *Title tr.:* The grain structure of snow.

Microscopic polished- and thin-section research on old snow of fine and coarse grain from horizontal and angled layers, and on windpacked young snow, illustrates different kinds of structure.

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**21425. De QUERVAIN, MARCEL.** Korngrößenanalyse von Altschnee durch Sedimentation. (Schweizerische Bauzeitung, Feb. 28, 1948. Bd. 66, p. 117-18, illus., table, graphs) *Title tr.:* Grain size analysis of old snow by sedimentation.

"Snow metamorphism is a process during which freshly fallen, flaky snow changes in time to a grainy aggregate. Grain size was found to be one of the most important snow characteristics in addition to density, temperature, and grain binding. The sedimentation method of determining grain size is found to be the most advantageous. An elutriating vessel, 100 cm. long and 225 cm<sup>3</sup> in cross-section, is filled with petroleum. A slide plate separates a cylindrical space 8 cm. in height and is filled 2/3 with petroleum from the main vessel. A stirring mechanism is built into the space and a scale balance, connected to a spring scale, is suspended on steel wire in the vessel. Experiments are performed in a laboratory maintained at -10° C. A 5g. snow sample is inserted in the upper space and stirred. The slide-plate is opened, the grains enter the vessel, and slowly descend onto the scale. The deflection of the scale is measured photographically as a function of time as the particles accumulate. The size of the particles may be determined from deflection data and Stoke's law. Grain size diagrams and a distribution table of size in different heights above ground in a thick layer of snow are obtained for different snow types. Results indicate that the method is readily reproducible for identical samples."—SIPRE.

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**21426. De QUERVAIN, MARCEL.** Snow and ice problems in Canada and

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the U. S. A. Ottawa, Feb. 1950. 70 p. incl. illus., tables, graphs, maps, diagrs. appendices A-C. (National Research Council of Canada. Division of Building Research. Tech. Rept. No. 5)

"Problems of snow, ice, glaciers, snow-drifts, avalanches, atmospheric icing, and permafrost in Canada are reviewed. Economic aspects, such as snow removal on highways, airports, railway tracks and city streets, transportation, and ice pressure on dams and hydraulic structures, are presented, with recommendations for investigations and/or treatment. The institutions for snow and ice research in 11 countries in Europe, Asia and North America are listed with the names of directors, addresses, and brief summaries of the activities. An international snow classification system is recommended. Suggestions are made for a classification scheme of the literature. A description of D. C. Pearce's tour to snow and ice research institutions in Canada and U. S. in 1948-49 is appended."—SIPRE.

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**21427. DERBEK, F.** Faunisticheskiĭ izyskaniĭa, vedennyĭa vo vremĭa plananiĭa gidrograficheskoi ėkspeditsii Vostochnago okeana. (Akademiĭa nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1909. t. 14, p. xvii-xxix, text map) *Title tr.:* Summary of faunistic observations carried out during the voyage of the Hydrographic Expedition to the Pacific Ocean.

*Contains* descriptions of the expedition's 44 stations in 1908 in Avacha Bay, Kamchatka Peninsula, and in the north-eastern Okhotsk Sea; with data on location, depth, bottom, temperature of water, specific gravity and marine fauna.

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**21428. DERBEK, F.** Nablūdeniĭa nad svĕcheniem Okhotskago morĭa. (Akademiĭa nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1909. t. 14, p. xxix-xxxii, illus.) *Title tr.:* Observations on the phosphorescence of the Okhotsk Sea.

*Contains* a discussion of the causes of the night phosphorescence of the sea water, observed by the author in 1908 in the Okhotsk Sea during the Hydrographic Expedition to the Pacific Ocean.

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**21429. DERBEK, F.** Otchet po estestvenno-istoricheskim rabotam v Gidro-

graficheskoi ėkspeditsii Vostochnago okeana vo vremĭa kampanii 1912 goda. (Akademiĭa nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1913. t. 18, no. 2, p. xxiii-lv) *Title tr.:* Summary of natural history work done during the Hydrographic Expedition to the Pacific Ocean.

*Contains* descriptions of more than forty stations established in the Pacific area in 1912 by the transport *Okhotsk*, including ten stations in the northern Okhotsk Sea, with data on location, depth, temperature, specific gravity and marine fauna. Coastal collections of mammals, birds, insects and plants are briefly described, and a physical and geographic sketch given of Korovyĭ or Spafar'yeva Island (59°20' N. 149° E.).

*Copy seen:* MH-Z.

**21430. DERBER, PETR ĪAKOVLEVICH and M. L. SHER.** Ocherki khozĭstvennoi zhizni Dal'nego Vostoka. Moskva, Gos. izd-vo, 1927. 300 p., illus., fold. map. *Title tr.:* Outline of economic life of the Far East.

*Contains* chapters on the territory including Okhotsk province and Kamchatka; its natural conditions and population; migration and colonization; transport; agriculture; forests and forest products; fisheries and hunting; mining; industry and trade. *Copy seen:* DLC.

**21431. DERĪUGIN, KONSTANTIN MIKHAILOVICH, 1878-1938.** Exploration des mers de l'Extrême-Orient. Travaux de l'expédition au Pacifique de l'Institut hydrologique d'état à Leningrad. (Société d'Océanographie de France. Bulletin, Sept. 1935. Année 15, p. 1473-81) *Title tr.:* Exploration of Far Eastern seas. Results of the Pacific expedition of the State Hydrological Institute, Leningrad.

*Contains* general discussion of the type of work in hydrography and marine biology carried out by the trawlers *Gagara* in Sea of Okhotsk, and *Dal'nevostochnik* in Bering Sea, 1932; with a few remarks on results. *Copy seen:* DI.

**21432. DERĪUGIN, KONSTANTIN MIKHAILOVICH, 1878-1938.** Kratkiĭ ocherk razvitiĭa Murmanskoi biologicheskoi stantsii. (Raboty zoologicheskogo i zootomicheskogo kabinetov I. SPB. universiteta i Murmanskoi biologicheskoi stantsii. I. SPB. Obshchestva este-

stvoispytatelei, no. 1, pub. as Leningradskoe obshchestvo estestvoispytatelei. Trudy, 1912. t. 41, no. 4, p. iii-xxii)

**Title tr.:** Brief sketch of the development of Murman Biological Station.

Survey of the marine biological work of the station (at Polyarnyy about 50 km. north of Murmansk) and published results.

**Copy seen:** DLC.

**21433. DERIUGIN, KONSTANTIN**

**MIKHAĬLOVICH, 1878-1938.** Die Murmansche biologische Station der K. Naturforscher Gesellschaft zu St. Petersburg und ihre Arbeiten im Nordischen Eismeer. Cambridge, Mass., 1910. 20 p. illus. (Advance print from the Proceedings of the Seventh International Zoological Congress. Boston meeting, Aug. 19-24, 1907) **Title tr.:** The Murman Biological station of the Society of Naturalists of St. Petersburg and its work in the Arctic Sea.

**Contains** a description of this station set up at Polyarnyy near Murmansk in 1899; notes on its history, organization and equipment; data on the climate and fauna of the region; a general sketch of the marine fauna of Kola Bay and a list of about 500 species of plankton and marine species of various orders, inhabiting the coastal waters.

**Copy seen:** MH-Z.

**21434. DERIUGIN, KONSTANTIN**

**MIKHAĬLOVICH, 1878-1938.** Nekotorye rezul'taty nauchno-promyslovyykh issledovaniĭ v Okhotskom more, osushchestvlenyykh v 1915-17 gg. pod rukovodstvom professora Marukawa. (Vladivostok. Tikhookeanskii nauchno-issled. institut rybnogo khozĭstva i okeanografii. Izvestiia, 1928, t. 1, vyp. 1, p. 325-28) **Title tr.:** Some results of scientific and industrial investigations in the Okhotsk Sea, under direction of Prof. H. Marukawa, in 1915-17.

**Contains** a brief summary of the data on fisheries and commercial fishes of the western coast of Kamchatka Peninsula (Okhotsk Sea) compiled from the work (pub. in Japanese) of Prof. H. Marukawa of the Institute of Fishery of Tokyo, who investigated the Okhotsk and Japanese Seas in 1915-17.

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**21435. DERIUGIN, KONSTANTIN**

**MIKHAĬLOVICH, 1878-1938.** Novye dannye po sistematike, morfologii i biogeografii roda *Velutina* Flem. (Mol-

lusca, Gastropoda, Lamellariidae). (In: Akademiia nauk SSSR. Zoologicheskii institut. Issledovaniia dal'nevostochnykh morei SSSR, 1950. vyp. 2, p. 7-27, 5 plates) **Title tr.:** New data on the systematics, morphology and biogeography of the genus *Velutina* Flem. (Mollusca, Gastropoda, Lamellariidae).

**Contains** report on the author's ten years' work on this genus, a predominantly arctic and subarctic group. Includes a morphological-anatomical review of the species and subspecies arranged in taxonomic order; occurrence and distribution; zoogeography; hypothetical history of spreading of the group; sexual peculiarities. Bibliography (13 items).

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**21436. DERIUGIN, KONSTANTIN**

**MIKHAĬLOVICH, 1878-1938.** Otchet po tikhookeanskoi nauchno-promyslovoi stantsii za period s 14 iuliia po 1 oktiabria 1926 g. (Vladivostok. Tikhookeanskii nauchno-issledovatel'skii institut rybnogo khozĭstva i okeanografii. Izvestiia, 1928, t. 1, vyp. 1, p. 267-96) **Title tr.:** A report on the activity of the Pacific Scientific-Industrial Station from July 14th to October 1, 1926.

**Contains** in this general report on the whole Far East region, some statistical data on the fishing industry on the western coast of Kamchatka (Okhotsk Sea), the author's observations on ecological characteristics of that region, investigated by I. F. Pravdin, and an evaluation of industrial possibilities on the coast, p. 271-74, 280. Summary in German.

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**21437. DERIUGIN, KONSTANTIN**

**MIKHAĬLOVICH, 1878-1938.** Otritsatel'nye cherty bentonicheskoi fauny Belogo moriia i prichiny etogo iavleniia. (Gidrobiologicheskii zhurnal SSSR, 1925, t. 4, no. 7-9, p. 123-29) **Title tr.:** Negative characteristics of benthos fauna of the White Sea and the reasons for this phenomenon.

**Contains** a comparative study of the benthos fauna of the White and Barents Seas, and a discussion of the fact that many benthos species well represented in the Barents Sea are lacking in the White Sea. Summary in German.

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**21438. DERIUGIN, KONSTANTIN**

**MIKHAĬLOVICH, 1878-1938.** Pervye shagi organizatsii novoi Murmanskoĭ bio-

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logicheskoi stantsii. (Akademii nauk SSSR. Murmanskii biologicheskii stan-tsii, Dal'niye Zelen'sy. Trudy 1948, t. 1, p. 5-9) **Title tr.:** First steps in the organization of the new Murman Biological Station.

**Contains** an outline of a station's history from its beginning at Polyarnyy near Murmansk in 1881, as an institution of the St. Petersburg Obshchestvo estestvoispytatelei (Society of Naturalists), till the establishment about 1935-36, of the new station of the Academy of Sciences U.S.S.R. at Dalne-Zelentsk Bay on the Murman coast 150 km. east of Murmansk.

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**21439. DERIUGIN, KONSTANTIN MIKHAILOVICH, 1878-1938.** Puteshestvie v dolinu sredn'ego i nizhn'ego tcheniia rieki Obi i fauna etoi oblasti. (Leningradskoe obshchestvo estestvoispytatelei, Trudy, 1898. Otdelenie zoologii i fiziologii. t. 29, no. 2, p. 47-140, tables, fold. map) **Title tr.:** Excursion to the valley of the middle and lower course of the Ob' River and the fauna of this region.

Animals observed and collected by the author in the summer of 1897, include mammals (10), reptiles (5), amphibians (10), fishes (41). 200 birds belonging to 156 species are described in detail. Summary in French.

**Copy seen:** DLC.

**21440. DERIUGIN, KONSTANTIN MIKHAILOVICH, 1878-1938.** Reliktovoe ozero Mogil'noe, Ostrov Kil'din v Barentsovom more. Leningrad, Glavnauka, 1925. 111 p. illus., 2 plates, diagrs. (Peterhof. Biologicheskii institut. Trudy, no. 2) **Title tr.:** Relict Lake Mogilnoye, Kildin Island in the Barents Sea.

**Contains** chapters on: (1) Historical survey of exploration of Lake Mogilnoye, p. 6-17; (2) Kildin Island, p. 17-22; (3) Hydrological survey of Lake Mogilnoye: general topography, bottom relief, low and high tides; temperature; salinity; oxygen and H<sub>2</sub>S, bacteria as a factor of the gaseous régime, p. 22-44; (4) Biological survey of Lake Mogilnoye: algae, plankton, bottom fauna (benthos), zones, p. 44-91; (5) Comparison with relict lakes of Novaya Zemlya, p. 91-93; conclusion, p. 94-95; bibliography (59 items). The fauna of this lake includes both fresh-water and marine elements, even some marine species. Summary in German, p. 99-111.

**Copy seen:** MH-Z.

**21441. DERIUGIN, KONSTANTIN MIKHAILOVICH, 1878-1938.** Zametka o massovom pojavlenii v s'evernoi Laplandii piadenitsy *Larentia dilutata* Bkh. var. *sandbergii* Lampa (Lepidoptera, Geometridae). (Russkoe entomologicheskoe obozrenie, 1909. t. 9, no. 1-2, p. 136-37) **Title tr.:** Notice on the mass appearance in northern Lapland, of the measuring worm *Larentia dilutata* Bkh. var. *sandbergii* Lampa (Lepidoptera, Geometridae).

Brief note on the mass appearance of this Norwegian geometrid in Kola Bay region in Aug. 1908.

**Copy seen:** MH-Z.

**21442. DERRY, DUNCAN R.** A tectonic map of Canada. (Geological Association of Canada. Proceedings, 1950. v. 3, p. 39-53, incl. double-face map)

**Contains** notes on methods used to compile the tectonic map of Canada published in 1950, and on major tectonic features and regions, which include the Cordilleran Front of foothills and mountains in the Mackenzie valley and Yukon Territory, the structural provinces of the Precambrian Shield, the Grenville Front and Ungava-Labrador thrusts, and the two basins of the Hudson Bay region. one Paleozoic and the other Precambrian in age. Bibliography (8 items).

**Copy seen:** DGS.

**21443. DERZHAVIN, ALEKSANDR NIKOLAEVICH.** Cumacea Kamchatkskoi ekspeditsii. (Gidrobiologicheskii zhurnal SSSR, 1926. t. 5, no. 7-9, p. 174-82, plates 3-6) **Title tr.:** The Cumacea of the Kamchatka Expedition.

**Contains** diagnoses and critical notes on seven forms of marine and fresh-water crustaceans of the order Cumacea collected by the members of the Kamchatka Expedition of F. P. Rfubushinskii in 1908-09, in Kamchatka waters (Avacha Bay) and in some fresh-water and saline lakes of the Peninsula, with data on local and total distribution. Includes three new species: *Diastylopsis calmani*, *Lamprops sarsi* and *L. krashenninnikovi*. Summary in English.

**Copy seen:** MH-F.

**21444. DERZHAVIN, ALEKSANDR NIKOLAEVICH.** Gammaridae Kamchatkskoi ekspeditsii 1908-1909 g. (Gidrobiologicheskii zhurnal SSSR, 1927. t. 6, no. 1-2, p. 1-13, plates 1-4) **Title tr.:** The Gammaridae of the Kamchatka Expedition, 1908-1909.

Contains a list of eight species of marine and fresh-water amphipod crustaceans of the fam. Gammaridae, collected by the Kamchatka Expedition of F. P. Riābushinskii in the rivers, lakes and ponds of Kamchatka, and in the coastal waters of Bering and Okhotsk Seas. Includes English diagnoses and Russian descriptions of *Gammarus schmidtii* and *Carinogammarus tiuschovi* n. spp. and *Anisogammarus dybovskii* n. gen. et. sp. Summary in English.

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**21445. DERZHAVIN, ALEKSANDR NIKOLAEVICH.** Hyperiidea i Caprellidea Kamchatskol' ekspeditsii 1908-9 g. (Gidrobiologicheskii zhurnal SSSR, 1927. t. 6, no. 1-2, p. 13-15) **Title tr.:** The Hyperiidea and Caprellidea of the Kamchatka Expedition, 1908-09.

Contains a list of *Hyperia galba*, *Caprella linearis* and *C. striata*, small amphipod crustaceans collected by the Riābushinskii Kamchatka Expedition in Avacha Bay; includes localities, notes and data on distribution. Summary in English.

**Copy seen:** MH-F.

**21446. DERZHAVIN, ALEKSANDR NIKOLAEVICH.** Malacostraca presnykh vod Kamchatki. (Gidrobiologicheskii zhurnal SSSR, 1923. t. 2, no. 8-10, p. 180-94) **Title tr.:** Fresh-water Malacostraca of the Kamchatka Peninsula.

Contains a systematic list of nine fresh-water Malacostraca of the Kamchatka Peninsula, collected in 1908-09 by the Kamchatka Expedition of F. P. Riābushinskii, including diagnoses of *Lamprops korroensis*, *Gammarus kygi*, *Orchestia ditmari* and *Kamaka kuthae* n. spp. and critical notes on 5 other species.

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**21447. DERZHAVIN, ALEKSANDR NIKOLAEVICH.** Presnovodnye Malocostraca Russkogo Dal'nego Vostoka. (Gidrobiologicheskii zhurnal SSSR, 1930. t. 9, no. 1-3, p. 1-8) **Title tr.:** The fresh-water Malacostraca of the Russian Far East.

Contains a study of fresh-water crustaceans of the subclass Malacostraca, inhabiting rivers, lakes and streams of the Russian Far East; with a list of 24 forms (three species described as new) including *Synurella stadukhini* n. sp., native to the rivers of the northern coast of the Sea of Okhotsk and ten other species occurring in the rivers of Kamchatka Peninsula, on northern Okhotsk

sea coast, in the Anadyr' River basin and on Karaginskiy and Shantar Islands. Summary in English.

**Copy seen:** MH-F.

**21448. DERZHAVIN, ALEKSANDR NIKOLAEVICH.** Zametka o Crustacea Malacostraca nizov'ev Pechory. (Gidrobiologicheskii zhurnal SSSR, 1923. t. 2, no. 5-7, p. 111-15) **Title tr.:** Note on Crustacea Malacostraca of the lower course of the Pechora River.

Contains a list of five species of Crustacea Malacostraca collected near Ust' Tsylna, in the Pechora estuary, by the members of the Pechora Section of the Northern Scientific Industrial Expedition of 1920, with descriptive notes, localities and data on general distribution. Summary in German.

**Copy seen:** MH-F.

**21449. DESMARAIS, A., and L.-P. DUGAL.** La circulation peripherique chez le rat blanc exposé au froid. (Revue canadienne de biologie, May 1950. v. 9, no. 2, p. 206-209, table, diagr.) **Title tr.:** The peripheral circulation of the white rat exposed to cold.

Contains a report on experiments with rats exposed to a temperature of 0°-1° C. An immediate increase of blood adrenalin with a quick return to normal, was noted. After 24 h. of exposure to cold a vasoconstriction was observed, followed in two days, by a vasodilatation. An interpretation of these related phenomena is given. Bibliography (6 items).

**Copy seen:** DSI-M.

**21450. DESMARAIS, A.** Differences in the effects of cold environment and of muscular work on adrenal function. (Federation proceedings, Mar. 1949. v. 8, p. 34)

Contains a brief report on adrenalectomized cold-adapted rats. These proved less resistant to cold than normal, non-adapted animals.

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**21451. DEUTSCHE MILITÄRARZT.** Beobachtungen über das seelische und körperliche Verhalten einer Truppe im subarktischen Klima Nordnordwegens, nördlich des 70. Breitengrades. (Deutsche Militärarzt, 1941. v. 6, p. 555-56, chart) **Title tr.:** Observations on the psychic and somatic behavior of a troop in the subarctic climate of northern Norway, north of 70° latitude.

Contains report on a battalion which spent 18 months between 70° N. and

Nordkap, by a doctor who had been attached to the unit for two years, and so had comparative data. Information on diet, vitamins, alcohol, housing, way of life, etc., is offered. No "polar tantrums" were observed. Except tiredness at late morning hours and sleeplessness during first half of night, which were common in November and December, no psychic disturbances were observed. An increase in intestinal disorders is noted and is attributed to the poor cooking of the field kitchens. **Copy seen:** DSG.

**DEUTSCHER SEEFISCHEREI-VEREIN**, see Herwig, W. Exped. Deutschen Seefischerei-Vereins 1899. 1900. No. 22600.

**DEUTSCHER WETTERDIENST IN DER US-ZONE**, *Bad Kissingen*, see Holzapfel, R. Tätigkeit deutschen Wetterdienstes. 1950. No. 22699.

**21452. DEUTSCHES HYDROGRAPHISCHES INSTITUT**, *Hamburg*. Atlas der Eisverhältnisse des Nordatlantischen Ozeans und Übersichtskarten der Eisverhältnisse des Nord- und Südpolargebietes. Hamburg, 1950. p. 1., 24 p. 34 charts on 28 p. folio. (Nr. 2335) **Title tr.:** Ice atlas of the North Atlantic Ocean and summarized ice charts of the North and South Polar regions.

Compiled and written by J. Büdel.

Text contains discussion of formation and distribution of sea ice; occurrence of river, glacial and sea ice in oceans and bordering seas; ice conditions in the Arctic Ocean and seas, North Atlantic and Barents Sea, large inland or peripheral seas (e. g. Hudson Bay, White Sea, Gulf of St. Lawrence, etc.) and the Antarctic Ocean; geographic types of sea ice (polar, polar-oceanic, icebergs, polar shelf and bay ice, and the pure marine to "extreme continental" types of ice in peripheral or inland seas). Bibliography (37 items).

**Charts:** mean monthly limits, and types of ice for North Atlantic (no. 1-13), Arctic Ocean (no. 14-26), and mean limits, 1929-39, for Jan., Feb., Mar., Apr.-June, July-Sept., Oct.-Nov. and Dec.; also types of ice for the Antarctic Ocean, no. 27a-h.

**Copy seen:** CaMAI; DLC; DN-HO.

**21453. DEVIK, OLAF MARTIN, 1886-** . Ice formation in lakes and rivers. (Geographical journal, May 1944. v. 103, p. 193-203, incl. diagrs.)

"Considering the heat loss by radiation, convection, and evaporation from a water surface at 0° C with an air temperature at -10° C, the net heat loss when the sky is clear and the sun's altitude is 5° is shown to be 23.1 cal/cm<sup>2</sup>/hr. In 1 hr. this would cause formation of an ice sheet 3.2 mm thick. The 'black body' property of water for infra red radiation was used to determine water temperatures during the freezing process with a Moll thermopile. A sheet of ice was allowed to form and was suddenly covered by a thin layer of water with a temperature slightly above freezing. After 2 min. the surface temperature had decreased to -1.5° C and after 5 min. had increased to 0° C where it remained constant. Supercooling is necessary in the freezing process which is slowed considerably by the release of heat of solidification. In addition to the heat balance and supercooling, turbulence is important for ice formation in running water since it produces thermal gradients and distributes currents of supercooled water throughout the stream or river. These currents assist the formation of frazil and anchor ice. Precautions against damage by such ice formations include measures to reduce turbulence and to encourage formation of an ice covering over the water surface."—SIPRE.

**Copy seen:** DLC.

**21454. DEVIK, OLAF MARTIN, 1886-** . Ice formation in lakes and rivers. (International Geodetic and Geophysical Union. Association of Scientific Hydrology. Assemblée générale d'Oslo, 1948. Procès-verbaux des séances. t. 2, Travaux de la Commission de la Neige et des Glaciers, pub. 1950? p. 359-66, diagrs.)

Brief discussion of "loss of heat from a water surface" and "the corresponding growth of ice under some typical meteorological conditions;" including growth of a sheet of ice, ice formations and supercooling of the water surface, ice formation in running water, and some practical applications of this knowledge in dealing with frazil and anchor ice and ice dams in connection with river traffic and water-power installations. **Copy seen:** DGS.

**21455. DEVIK, OLAF MARTIN, 1886-** . Supercooling and ice formation in open waters. (International Geodetic and Geophysical Union. Association of Scientific Hydrology. Assemblée générale d'Oslo, 1948. Procès-verbaux. t. 2,

Travaux de la Commission de la Neige et des Glaciers, pub. 1950? p. 380-89, illus., tables, diagrs.)

Discussion of measurements in 1941-42, of super-cooling in static ice formation (in still water) and dynamic ice formation (in running water), carried out by means of revised apparatus for measurement of surface temperature. "An error concerning the determination of the thermal sensitivity of the receiver (Moll thermopile) was discovered" after the publication of the author's *Thermische und dynamische Bedingungen der Eisbildung in Wasserlaufen*, etc., 1931, making a new investigation desirable. Author includes "chief points concerning the revised apparatus."

**Copy seen:** DGS.

**21456. De WINDT, HARRY, 1856-1933.** Russia as I know it. Philadelphia, Lipincott, 1917. viii, 232 p. 12 plates.

Contains a journalist's account of various parts of European and Asiatic Russia as observed on several trips during a 20-25 year period before World War I, partly to observe the Siberian exile system. Includes (chap. 13, p. 135-43) description of his journey from Yakutsk to Verkhoyansk by a deer sledge; notes on shamanism (p. 151-53). Chap. 15 describes "some strange races," among them the Samoyeds (p. 157-58), Ostyaks (p. 158), Yakuts (p. 159-60). The Chukchis (among whom the author lived on two occasions for about three months in all) are described in more detail (p. 161-66, 4 plates).

**Copy seen:** DLC; InU.

**21457. D'ĀCHKOV, NIKOLĀI NIKOLAEVICH, 1899-**, and **A. L. KURSANOV.** The carbohydrate composition of lichens of the Kola Peninsula considered in connection with the problem of glucose production in northern localities. (Akademiiā nauk SSSR. Comptes rendus (Doklady), 1945. nouv. ser., v. 46, no. 2, p. 66-68.)

Chemical analysis of a number of common lichens with a view to utilizing them for the production of molasses and syrup. Experiments and pilot plants to this end are reported here.

**Copy seen:** DLC.

**21458. D'ĀKONOV, ALEKSANDR MIKHĀILOVICH.** Fauna pādeniā (Lepidoptera, Geometridae) Kamchatki. (Adademiiā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1931. t. 32, vyp. 8, p. 385-410, illus.) **Title tr.:** The meas-

uring worm fauna of Kamchatka (Lepidoptera, Geometridae).

Contains a general sketch of Geometridae fauna of Kamchatka Peninsula and its elements, based mostly on the collections of the expedition of F. P. Rābushinskii in 1908-09; and a systematic list of 61 species, including German diagnoses of *Operophtera (Rachela) peninsularis* n. sp. and *Cidaria (Xanthorhoe) incurcata derzhaveni* subsp. n., synonymy, localities and occasional descriptive notes.

**Copy seen:** DLC; MH-Z.

**21459. D'ĀKONOV, ALEKSANDR MIKHĀILOVICH.** Glubokovodnyi element i faune morskikh zvezd Okhotskogo moriā. (In: Akademiiā nauk SSSR. Zoologicheskii institut. Issledovaniā dal'nevostochnykh morei SSSR. vyp. 2, 1950, p. 28-57, illus.) **Title tr.:** The deep-sea element in the star-fish fauna of the Sea of Okhotsk.

Contains report based on a 1932 deep-sea investigation of the Okhotsk Sea carried out by the government Hydrological Institute and the Pacific Institute of Fisheries and Oceanography. Twelve species are described with details in morphology and anatomy; location, depth and date of find; comparative notes, etc. A list of additional 13 species found below 500 m. is attached.

**Copy seen:** DLC.

**21460. D'ĀKONOV, ALEKSANDR MIKHĀILOVICH.** Iglokozhiye severnykh morei. Leningrad, Izd-vo Akademii nauk SSSR, 1933. 166 p., illus. (In: Akademiiā nauk SSSR. Opredeliteli po faune SSSR. No. 8) **Title tr.:** The echinoderms of the arctic seas.

Contains general characteristics of Echinodermata and tables for the determination of classes, orders, families, genera and species of echinoderms of all arctic seas along the northern coast of European and Asiatic U.S.S.R., with descriptions of the species and data on distribution; bibliography (40 items); index of Latin names.

**Copy seen:** MH-Z.

**21461. D'ĀKONOV, ALEKSANDR MIKHĀILOVICH.** Individual'naia izmenchivost' i vozrastnye izmeneniā u nekotorykh grupp iglokozhihkh. (Akademiiā nauk SSSR. Zoologicheskii institut. Trudy, 1946. t. 8, no. 1, p. 145-93, illus., diagrs.) **Title tr.:** Individual and age variability in some groups of echinoderms.

Contains an ecological study of some marine starfishes, including *Strongylocentrotus droebachiensis* a circumpolar species of the Northern Hemisphere, *Poraniomorpha tumida* also having wide distribution in arctic waters (all Russian northern seas and Greenland waters), and *Trophodiscus*, *Leptasterias* and *Asterias* species (Bering and Okhotsk Seas). Data are given on ecological factors influencing the extent and character of individual and age variability and its importance in the evolutionary process. Summary in English.

**Copied seen:** MH-Z.

**21462. D'ĬAKONOV, ALEKSANDR MIKHAYLOVICH.** Monograficheskiĭ ocherk morskikh zvezd severo-zapadnykh chastei Tikhogo okeana, Echinodermata, Asteroidea, 1. Rod *Leptasterias* Fisher. (Akademiĭa nauk SSSR. Zoologicheskii institut. Trudy, 1938. t. 4, vyp. 5, p. 749-914, plates 1-20) **Title tr.:** Monographic survey of starfishes of the northwestern Pacific (Echinodermata, Asteroidea), I. The genus *Leptasterias* Fisher.

Contains a monographic treatment of the genus *Leptasterias* of northwestern Pacific, including Okhotsk Sea, Bering Sea, Bering Strait and adjoining parts of Arctic Ocean (Chukchi Sea); with a key to the species and subspecies, a monographic description of 24 species (10 new), with synonymy, list of stations, critical notes, biological and ecological data and distribution. A small part of this work (introduction and keys, p. 749-60) is in Russian, the rest in German.

**Copied seen:** DLC; MH-Z.

**21463. D'ĬAKONOV, ALEKSANDR MIKHAYLOVICH.** Monograficheskiĭ ocherk morskikh zvezd severo-zapadnoi chasti Tikhogo okeana, Echinodermata, Asteroidea, II-IV. (In: Akademiĭa nauk SSSR. Zoologicheskii institut. Issledovaniĭa dal'nevostochnykh morei, vyp. 2, 1950, p. 58-139, illus.) **Title tr.:** A monographic survey of the starfishes of the northwestern Pacific (Echinodermata, Asteroidea) II-IV.

Contains (in continuation of the item above) section II, *Pedicellaster* M. Sars (4 species); III, *Erasterias* Verrill (3 species); IV, *Asterias* (L.) Fisher (6 species). Data for each species (or form) include: synonyms, morphology and morphometry, comparative morphology, occurrence and geographical distribution.

Generic characteristics and data are given at the beginning of each chapter. Species of these genera inhabit arctic seas. Bibliographical footnotes.

**Copied seen:** DLC.

**21464. D'ĬAKONOV, ALEKSANDR MIKHAYLOVICH.** Morskije zvezdy morei SSSR. Moskva-Leningrad, Izd-vo Akademii nauk, 1950. 202 p., illus. (212 fig.). (In: Akademiĭa nauk SSSR. Opredeliteli po faune SSSR. No. 34) **Title tr.:** Starfishes of the seas of the U.S.S.R.

Contains (in the general part, p. 1-16) brief characteristics of Echinodermata, history of the study, phylogenetic relationship of classes, a morphological sketch of the starfishes (Asteroidea), their ecology and geographic distribution in the arctic seas, Okhotsk, Bering and Japanese Seas. In the systematic part are: keys for the determination of orders, families, genera and species and brief diagnoses of about 150 species and 50 lower forms of starfishes (in 46 genera and 15 families) native to U.S.S.R. waters, with synonymy and data on Russian and total distribution; index of Latin names, p. 199-202.

**Copied seen:** MH-Z.

**21465. D'ĬAKONOV, ALEKSANDR MIKHAYLOVICH.** Eine neue Amphiruride aus dem Kola-Fjord nebst Bemerkungen über das Vorkommen anderer Amphiruriden im Barentsmeer. Murmansk, 1929. 6 p. illus. (Leningradskoe obschestvo estestvoispytatelei. Murmanskaja biologicheskaja stantsiĭa. Raboty, t. 3, no. [5]) **Title tr.:** A new amphirurid from Kola Bay, together with comments on the occurrence of other amphirurids in Barents Sea.

Contains a description of a new species of starfish, *Amphipholis murmanica*, sp. n., together with brief notes on the occurrence of a few other species of this family. Summary in Russian.

**Copied seen:** DLC.

**21466. D'ĬAKONOV, ALEKSANDR MIKHAYLOVICH.** Neue Asteriden (Echinodermata) aus der Sammlung des Zoologischen Museums der Akademie der Wissenschaften. (Akademiĭa nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1931. t. 32, vyp. 1, p. 67-85, illus.) **Title tr.:** New asterideans (Echinodermata) in the collection of the Zoological Museum of the Academy of Sciences.

Contains descriptions of three new starfish, including *Leptasterias nanimensis beringiana* subsp. n., found in 1882 in Bering Island waters.

**Copy seen:** MH-Z.

**21467. D'ĬAKONOV, ALEKSANDR MIKHAILOVICH.** Neue Seesterne aus dem Ochotskischen Meer, II. *Leptasterias fisheri* sp. n. (Akademiĭa nauk SSSR. Doklady, seriĭa A, 1929. no. 10, p. 233-38, illus., tables) **Title tr.:** New starfishes from the Okhotsk Sea, I. *Leptasterias fisheri* n. sp.

**Copy seen:** DLC.

**21468. D'ĬAKONOV, ALEKSANDR MIKHAILOVICH.** Neue Seesterne aus dem Ochotskischen Meer, II. *Leptasterias orientalis* sp. n. (Akademiĭa nauk SSSR. Doklady, seriĭa A, 1929, no. 11, p. 277-81, illus., table) **Title tr.:** New starfishes from the Okhotsk Sea, II. *Leptasterias orientalis* sp. n.

**Copy seen:** DLC.

**21469. D'ĬAKONOV, ALEKSANDR MIKHAILOVICH.** Zametka o cheshuekrylykh Murmanskago poberezh'ĭa. (Russkoe ěntomologicheskoe obozrenie, 1911. t. 11, no. 1, p. 13-17) **Title tr.:** Note on the lepidoptera of the Murman coast.

Contains a list of 31 species of butterflies and moths (Lepidoptera) collected by the author in the summer of 1910 in the vicinity of Aleksandrovsk (69°12' N.) with description of a new form, *Larentia hastata digitata*.

**Copy seen:** MH-Z.

**21470. D'ĬAKONOV, ALEKSANDR MIKHAILOVICH.** Zwei neue Seesterne aus dem westlichen Nord-pazific. (Akademiĭa nauk SSSR. Zoologicheskii muzej. Ezhegodnik 1926, pub. 1927. t. 27, no. 4, p. 310-19, plates 21-23) **Title tr.:** Two new starfishes from the western North Pacific.

Contains a description of a new starfish *Trophodiscus uber* n. sp. from Okhotsk Sea, and comparative measurements of this species and *T. almus*.

**Copy seen:** MH-A.

**21471. D'ĬAKONOV, MIKHAIL ALEKSEEVICH.** Istoriĭa poliĭarnikh podorozheĭ. Kiiv, Molodĭi bil'shovich, 1938. 398 p., illus., ports., fold. map. **Title tr.:** The history of polar voyages.

Similar in scope and emphasis to the author's *Puteshestviĭa v poliĭarnye strany*,

1933 (*Arctic Bibliography* No. 3946), this work covers the period from earliest times till June 1937 (lacking therefore accounts of Papanin's drift from the North Pole 1937-38, and the Moscow-North Pole-U. S. A. flight). Includes (p. 374-97) tabular chronology of polar voyages.

**Copy seen:** DLC.

**21472. DICH, Z. L.** Opyt massovoi vitaminizatsii shkol'nikov v usloviĭakh kratnego severa. (Fel'dsher i akusherka, Dec. 1950. no. 12, p. 42-44) **Title tr.:** An experiment in mass administration of vitamins to school children in the far North.

Contains a study of the school children of Igarka (67°30' N. 86°35' E.), initiated due to signs of avitaminosis being noticed at the end of winter, largely among those below the age of 10 and among immigrant children. The deterioration of vitamin-C activity in food products towards the end of the winter was found responsible for the condition; mass administration of vitamins A, B, C, improved the situation.

**Copy seen:** DLC.

**21473. DICKEY, W. A.** Discoveries in Alaska 1896. (American alpine journal, 1951. v. 8, p. 124-33)

Reprint of an article which appeared in the *New York Sun*, Jan. 24, 1897, giving description of Cook Inlet and the Susitna River region which the author explored in the summer of 1896, with his comments on the Indians and on Mt. McKinley, which he named.

**Copy seen:** DLC.

**DICKEY, W. A.,** see also Washburn, H. B. Mt. McKinley & Alaska Range bibliog. 1951. No. 27271.

**DICKINSON, MERIDITH,** see Davis, L., & others. High altitude frostbite. 1943. No. 21370.

**21474. DIEM, M.** Messungen an einer Schneedecke. (Zeitschrift für angewandte Meteorologie, 1944. Jahrg. 61, p. 37-49, illus., diags.) **Title tr.:** Measurements of a snowcover.

Contains the results of simple methods used to test the nature of snowcover; observations on its temperature (strongly affected by cloud cover), volumetric density, and structure showed changes in the cover brought about by heat transfer between snow surface and the ground. Tests were made of surface hardness for load limit and penetrability.

14 types of snow are defined. Bibliography (12 items).

**Copy seen:** DA; DLC.

**21475. DIESEL TIMES.** The Hudson's Bay Company's towboat *Pelican Rapids*. (Diesel times, Aug. 1950. v. 7, no. 8, p. 3, illus.)

Brief description of the engine of a 98-foot vessel operating on the Mackenzie River.

**Copy seen:** DLC.

**DIETRICH, ERNEST F.,** see Sanford, F. B., & others. Vitamin-A potencies of liver oils Bering Sea cod & flounder. 1950. No. 25833.

**DIETZ, ROBERT SINCLAIR, 1914-**, see Menard, H. W., & R. S. Dietz. Submarine geology Gulf of Alaska. 1951. No. 24289.

**DIGBY, P. S. B.,** see *Polar record*. Small boats Spitsbergen. 1950. No. 25170.

**21476. DILL, D. B., and W. H. FORBES.** Respiratory and metabolic effects of hypothermia. (American journal of physiology, Apr. 1941. v. 132, p. 685-97)

Contains a report (with technical assistance of Frank Consolazio) on metabolic and respiratory responses of mental patients made hypothermic for therapeutic purposes. Data on the total energy exchange and on the effects of the low temperature on the blood as a physicochemical system are offered. A trend towards acidosis, evidenced by a decrease in alkaline reserves, was noticeable; respiratory regulation remained effective even at 25° C. Bibliography (24 items).

**Copy seen:** DLC.

**DILLON, VINCENT, 1910-**, see Lynch, W. A. & V. Dillon. Characteristics Alaskan earthquake records. 1947. No. 24052.

**DILLON, VINCENT, 1910-**, see also Lynch, W. A., & V. Dillon. Deep-focus earthquake May 1940. 1943. No. 24053.

**DIETERIKHS, F. M.,** see Svätlovskii, A. E., & F. M. Dieterikhs. Materialy apatitovykh mestorozhdenii. 1939. No. 26560.

**DÜKER, A.,** see Puzakov, N. A., & others. Vliianie promerzaniia na ustoičivost'. 1948. No. 25315.

**21477. DIVIN, V. A.** A. I. Chirikov, zamechatel'nyi russkii moreplavatel' i

uchenyi. Stenogramma publichnoi lektsii, pročitanoi v tsentral'nom lektorii obshchestva v Moskve. Moskva, Izd-vo "Pravda," 1950. 30 p. map. **Title tr.:** A. I. Chirikov, a remarkable Russian navigator and scientist. Stenograph of a public lecture, delivered in the Central hall of the Society in Moscow [for Dissemination of Political and Scientific Knowledge].

Following a sketch of Chirikov's life, the author describes and evaluates his work with the first and second Kamchatka Expeditions under Bering (1725-30, 1734-43): his first voyage to America, discovery of Alaska in 1741, return voyage, meeting with the Aleuts and discovery of some of the Aleutian Islands; and his second voyage to America in 1742. A final chapter deals with Chirikov's last years of life. Bibliographical footnotes.

**Copy seen:** DLC.

**21478. DIX, W. L.** Lichens and hepatics of the Nueltin Lake Expedition, Keewatin, 1947. (Bryologist, Dec. 1950. v. 53, no. 4, p. 283-88, plates II-III)

Contains a report on a lichen collection (the first from this area) made by Dr. Francis Harper in 1947 on this expedition sponsored by the Arctic Institute of North America with funds provided by U. S. Office of Naval Research. A review of previous work on the lichens of northwestern Canada is presented. Description of the area (ca. 60°50' N. 99°32' W.), soil and vegetation and the substrates carrying lichens, follows. Over 40 species of lichens and 2 of hepatics (liverworts) are listed with notes on their frequency, localities, substrates, earlier records, etc. Bibliography (10 items).

**Copy seen:** DAI.

**DIXON, EVELYN,** see Wells, J. R., & E. Dixon. *Hemophilus influenza* from throats of Polar Eskimos. 1932. No. 27321.

**21479. DMITRIEV, NIKOLAI ALEKSEEVICH.** Biologiia i promysel sel'di v Belom more. Moskva, Pishchepromizdat, 1946. 87 p., illus., tables. (Vsesoiuznyi nauchno-issledovatel'skii institut morskogo rybnogo khoziaistva i okeanografii <VNIRO>) **Title tr.:** The biology of the herring and the herring industry in the White Sea.

Contains sections on the general appearance and origin of the White Sea herring; its biology, including seasonal distribution, growth, food, reproduction,

racess, etc.; the Murman herring in the White Sea; history and present state of the industry; fishing and processing; development of the local herring industry. Bibliography (159 items).

**Copy seen:** DLC.

**21480. DMITRIEV, NIKOLĀĬ ALEK-SEEVICH.** Mnogopozvonkovaiā (murmanskaiā) sel'd' v Belom more. (Būlleten' rybnogo khozāistva, 1940, no. 10, p. 26-28, table, sketch) **Title tr.:** Multi-vertebrate (Murman) herring in the White Sea.

An analysis of catches made during 1930-1935 according to their composition of multi- and oligo-vertebrate specimens. Biological data on the two kinds are offered.

**Copy seen:** DLC.

**21481. DMITRIEV, SERGEĬ NIKOLAEVICH.** Sten Bergman na dalekoĭ Kamchatke; puteshestvie po strane vulkanov, medvedei i nomadov. Moskva, Gos. izd-vo, 1929. 111 p., illus., map. **Title tr.:** Sten Bergman in far-off Kamchatka; a journey through the land of volcanoes, bears and nomads.

Popular story based on Sten Bergman's travels in Kamchatka during the Swedish Kamchatka Expedition, 1920-22 (see *Arctic Bibliography*, No. 1427), with sketches of Koryak and Lamut (Tungus) life and customs, and the happenings in Petropavlovsk at that time.

**Copy seen:** DLC.

**21482. DMOKHOVSKIĬ, ALEKSANDR VLADISLAVOVICH, d. 1932.** Materialy k poznaniū geograficheskogo rasprostraneniū i biologii belugi (*Delphinopterus*) v Belom more. (Moskovskoe obshchestvo ispytatelei prirody. Būlleten', 1933. Otdel biol. Novaia seriia, t. 42. vyp. 1, p. 85-90) **Title tr.:** Contribution to the knowledge of geographic distribution and biology of the beluga (*Delphinopterus*) in the White Sea.

Contains the author's observations on the biology, ecology and geographic distribution of the white whale (*Delphinopterus*) in the White Sea, made during his exploring trip in the summer of 1931 to study the beluga industry for the Institute of Oceanography.

**Copy seen:** DLC; MH-Z.

**21483. DMOKHOVSKIĬ, ALEKSANDR VLADISLAVOVICH, d. 1932.** Ptiŭsy srednei i nizhnei Pechory. (Moskovskoe obshchestvo ispytatelei prirody. Būlleten', 1933. Otdel biol. Novaia seriia, t. 42

vyp. 2, p. 214-43) **Title tr.:** Birds of the Pechora region.

Contains historical data on the ornithological investigation of Pechora River region and the author's trips in 1929 (forest zone) and 1930 (tundra of the lower Pechora); a brief physico-geographic survey of the region and a systematic enumeration of 175 species (800 specimens) of birds, with local names, data on biology, ecology and local distribution. Summary in French.

**Copy seen:** DLC; MH-Z.

**DOAN, K. H., see Arctic circular.** Beluga fishery Churchill. 1952. No. 20265.

**21484. DOBLHOFF, ROBERT, Baron.** Julius von Payer als Maler. (Polarforschung, 1951. Bd. 3, Jahrg. 21, p. 17-20) **Title tr.:** Julius von Payer as a painter.

Review of the Austrian arctic explorer's drawings and paintings, including those of the far northern regions.

**Copy seen:** DGS.

**21485. DOBROKHOTOV, IŪ. S.** Aëros'emka v vulkanologicheskikh èkspeditsiiaĭkh Akademii nauk SSSR. (Priroda, Dec. 1951. v. 40, no. 12, p. 12-19, illus., plates 1-3, sketch maps) **Title tr.:** Aerial mapping in vulcanological expeditions of the Academy of Sciences of U.S.S.R.

Contains an account of aerial mapping carried out in connection with investigation of volcanoes, first by Prof. A. N. Zavaritskiĭ in his Kamchatka Expedition of 1946. Methods and equipment are noted, itineraries (and maps) of the flights given and as results of the aerial reconnaissance and mapping, photographs of Klyuchevskaya, Avacha and Krashenninnikova volcanoes (plates 1-3). The results of this experiment were considered excellent and aerial mapping was again carried out in a similar investigation in the Caucasus in 1947.

**Copy seen:** MH.

**DOBROSERDOV, A. S., see Sidorov, V. I., & others.** Bystrokhodnyi samoreg. vetrodvigatel'. 1950. No. 26189.

**21486. DOBROVOLNY, ERNEST, 1912-**, and others. Descriptive geology of Anchorage and vicinity, Alaska. Preliminary report for open file. [Washington] 1950. 15 l. 5 charts, 2 fold. col. maps. (U.S. Geological Survey. Reports; open file series no. 58) Mimeographed. Other authors: R. D. Miller and M. Cooley.

Brief description of the area including the Anchorage quadrangle and that part of Knik quadrangle east of Knik Arm (59°-61°25' N. 149°30'-152°30' W.); also in more detail, a description of its principal geologic features, its Cretaceous, Tertiary and Quaternary systems.

**Copy seen:** DGS.

**21487. DOBROVOL'SKIĬ, A. D.** Admiral S. O. Makarov puteshestvennik i okeanograf, k stoletiiu so dnii rozhdeniia. Moskva, Gosudarstvennoe izd-vo geograficheskoi literatury, 1948. 110 p. illus., maps. **Title tr.:** Admiral S. O. Makarov, traveler and oceanographer, on the occasion of the 100th anniversary of his birth.

**Contains** biographical data on "the restless admiral" including his studies, early naval career and later war exploits; his investigations on the problem of "unsinkable" ships; on the Black Sea-Mediterranean water exchange; his Pacific cruise and his work on and with ice-breakers (p. 31-48). His plans and ideas on the role of the large ice-breaker in navigation and exploration are outlined (p. 51-60) with his contribution towards the construction of ice-breakers, trip to and up the Yenisey in 1897, and his voyages in Barents and Greenland Seas in 1899 and 1901, the two latter on the ice-breaker *Ermak* (p. 97-108). An analysis of his oceanographic, scientific and engineering exploits closes the monograph.

**Copy seen:** DLC.

**21488. DOBROVOL'SKIĬ, I. D.** Kolichestvo dobyvaemoi pushniny i pushnaia trgovlia na Dal'nem Vostoke. (In: Dal'ne-Vostochnyy kray. Upravlenie rybolovstva i okhoty na morskogo zveria. Rybnye i pushnye bogatstva Dal'nego Vostoka, 1923. p. 361-99, illus., tables) **Title tr.:** The amount of fur production and the fur trade in the Far east.

This account which includes Kamchatka and Yakutia and the Commander Islands, contains estimates on the fur-producing capacity, arranged according to species and areas and a similarly arranged account of the fur trade of Kamchatka. Aquatic mammals and reindeer are included in the report.

**Copy seen:** DLC.

**21489. DOBROVOL'SKIĬ, I. D.** Problemy razvitiia proizvoditel'nykh sil Okhotsko-Kamchatskogo i Anadyrsko-Chukotskogo kraia. (Sovetskaiia Aziia, 1927.

god 3, no. 4, p. 90-96) **Title tr.:** Tasks for the development of production of the Okhotsk-Kamchatka and Anadyr-Chukhotsk regions.

**Contains** account of the natural wealth in furs, fish and reindeer, of these northeasternmost districts of the U.S.S.R., and discussion of what should be done for better exploitation of such resources.

**Copy seen:** DLC.

**21490. DOBRYNIN, BORIS FEDOROVICH.** Fizicheskaiia geografiia SSSR. Evropeiskaiia chast' i Kavkaz. Izd. vtoroe. Dopushcheno Vsesoiuznym Komitetom po delam vysshei shkoly pri SNK SSSR v kachestve uchebnika dlia geograficheskikh fakul'tetov universitetov i pedagogicheskikh institutov. Moskva, Gosudarstvennoe uchebno-pedagogicheskoe izd-vo ministerstva prosvetsheniia RSFSR, 1948. 2 v. 323 p. illus., maps; 25 fold. (incl. 12 col.) maps in v. 2. **Title tr.:** Physical geography of the U.S.S.R. European part and the Caucasus. Second edition. Authorized by the All-Union Committee for Higher Education in the schools of the Council of People's Commissars, as a textbook for geography faculties in universities and pedagogical institutions.

**Contains** sections on general physico-geographical characteristics of the U.S.S.R. as a whole and a special part, with accounts of particular areas. Arctic problems of the Soviet Union as a whole are dealt with in the sections on climate (p. 9-19), soil and vegetation (p. 19-28), and fauna (p. 28-29). The chapter on the East European plain (p. 30-140) has corresponding sections on the climate, soil, etc., of the arctic areas of European Russia and also sections on the Barents Sea (p. 117-21) and the White Sea (p. 121-23). Bibliography (about 140 items).

**Copy seen:** DLC.

**DOBZHANSKIĬ, FEODOSIĬ GRIGOR'EVICH,** see Dobzhansky, Theodosius Grigorievich, 1900- .

**DOBZHANSKIĬ, FEODOSIĬ GRIGOR'EVICH,** see Dobzhansky, Theodosius Grigorievich, 1900- .

**21491. DOBZHANSKY, THEODOSIUS GRIGORIEVICH, 1900-** . Nauchnye rezultaty Iakutskoi ekspeditsii Akademii nauk SSSR. K faune Coccinellidae (Coleoptera) Iakutii, II. (Akademii nauk SSSR. Zoologicheskii institut. Trudy, 1932. t. 1, p. 483-86)

**Title tr.:** Scientific results of the Yakut Expedition of the Academy of Sciences U.S.S.R. On the coccinellid fauna (Coleoptera) of Yakutia, 2.

Twenty-five species and their localities are listed. **Copy seen:** DLC.

**21492. DOBZHANSKY, THEODOSIUS GRIGORIEVICH, 1900-** . Die paläarktischen Arten der Gattung *Coccinella* L. (Entomologisches obozrenie, 1926. t. 20, no. 1-2, p. 16-32, illus.) **Title tr.:** Palaearctic species of the genus *Coccinella* L.

**Contains** a critical revision of 13 palaearctic species (one new) of the coleopterous genus *Coccinella* with description, critical notes, data on geographic distribution and a key to the species. Includes at least seven species distributed in northern Scandinavia, Kola Peninsula, northern region of European and Asiatic Russia and Kamchatka.

**Copy seen:** DSI-M; MH-Z.

**21493. DOGEL', VALENTIN ALEK-SANDROVICH, 1882-** . Kurs obshchey parazitologii. Izdanie vtoroye dopolnennoye. Leningrad, Gosud. uchebno-pedagogicheskoye izd-vo Ministerstva prosveshcheniya RSFSR, 1947. 372 p. illus., diagrs., tables, maps. **Title tr.:** A course in general parasitology; second, enlarged edition.

**Contains** a textbook treatment of the general biological aspects of parasites and parasitism, in 4 parts: (1) parasitism, and the characteristics of parasites and their life cycles; (2) adaptation of the structure and the life cycles of parasites to their mode of life; (3) the parasitic fauna and the medium; (4) mutual relations between the parasite and the host. Chapter 19, part 3 (p. 280-88), dealing with the zoogeography of some groups, includes the European and Asiatic "arctic sea areas" (fish-parasites from the Pechora, Ob', Irtysh, etc.). Scattered references to arctic areas are found in other sections. Bibliography (about 500 items).

The present edition is enlarged by four new chapters (6, 13, 19, 25) dealing with the conception of species among parasites, insect parasites, zoogeography, etc.

**Copy seen:** DLC.

**21494. DOGEL', VALENTIN ALEK-SANDROVICH, 1882-** , and **A. RO-ZOVA.** Parazitofauna chetyrekhrogo bychka (*Myoxocephalus quadricornis*) v razlichnykh raionakh ego rasprostrane-

niya. (Leningrad. Universitet. Uchenye zapiski, 1941. No. 74. Ser. biol. nauk, vyp. 18, p. 4-19) **Title tr.:** Parasites of *Myoxocephalus quadricornis* in the various regions of its distribution.

**Contains** a study of parasites of a northern fish, *Myoxocephalus quadricornis*, based partly on material (seven specimens) from Kandalaksha Bay of the White Sea, and from Khatanga and Ob' estuaries, western Siberia. The nine species of parasites found on Siberian specimens and eleven on fishes from the White Sea, belong to typical marine fauna, and include many trematodes. Summary in German.

**Copy seen:** MH-Z.

**21495. DOGEL', VALENTIN ALEK-SANDROVICH, 1882-** . Prostelshie. Maloresnichnye infuzorii. Sem. Ophryoscolecidae. Leningrad, Izd-vo Akademii nauk SSSR, 1929. 92 p., illus., 3 plates. (In: Akademiya nauk SSSR. Opredeliteli po faune SSSR. No. 2) **Title tr.:** Protozoa. Infusoria oligotricha. Fam. Ophryoscolecidae.

**Contains** (in the general part) data on gathering and conservation of material, systematic limits of the protozoan fam. Ophryoscolecidae, distribution and hosts of this parasite (found usually in the stomach of ruminant animals), organization, reproduction, biology and general notes on determination methods. In the systematic part: keys to the genera, species and forms, and descriptions of 96 forms, with synonymy, dimensions, hosts and data on geographic distribution, and on distribution by hosts (table). Includes some species native to northern U.S.S.R.

**Copy seen:** DLC; MH-Z.

**DOHERTY, MARGARET M.,** Denny-Brown, D., & others. Pathology injury to nerve. 1945. No. 21423.

**DOHERTY, ROBERT H.,** see Minnesota. University. Institute of Technology. Review properties show & ice. 1951. No. 24376.

**21496. DOLGIKH, B. O.** K voprosu o naselenii basseina Oleneka i verkhov'ev Anabary. (Sovetskaya étnografiya, 1950, no. 4, p. 169-73, tables) **Title tr.:** Contribution to the problem of the population of the Olenek and upper Anabar River basins.

**Contains** a clarification of the confusion existing with regard to the population of the area, which, though speaking

Yakut is generally considered Tungus. During the 17th century an immigration of Yakuts into this hitherto purely Tungus area took place. They adopted the Tungus reindeer culture and were classified as Tungus. Authorities seemed to have fixed this misconception, and administrative practices even more confused it. The population of these river basins, the author shows to be Yakut differing from other Yakut groups only in their economy and way of life.

**Copy seen:** DLC.

**21497. DOLGIKH, B. O.** Kolkhoz im. Kirova Taimyrskogo Natsional'nogo okruga. (Sovetskaya étnografiya, 1949, no. 4, p. 75-93, illus., map) **Title tr.:** The collective farm "Kirov" of the Taymyr National District.

Contains a description of the area of this "farm" the northernmost on the right bank of the Yenisey (approx. 70°-73° N.); the ethnic composition of its inhabitants (Nentsy, Entsý, Dolgans, Nganasany, Russians); the farm's economy (reindeer breeding, hunting, fisheries); housing, clothing, family life, health and health services in the community.

**Copy seen:** DLC.

**21498. DOLGIKH, B. O.** O naselenii basseinov rek Oleneka i Anabara. (Sovetskaya étnografiya, 1952, no. 2, p. 86-91) **Title tr.:** On inhabitants of the Olenek and Anabar River basins.

Contains discussion on the controversial designation of the inhabitants of these regions according to their nationality: in the mid-19th century the majority of them were designated Yakuts, and in the literature at the end of 19th and beginning of 20th centuries, the majority of population have been called Tungus. Author presents the case that this is incorrect, and that ethnography should aid in establishing proper designation of the Yakut population.

**Copy seen:** DLC.

**21499. DOLGIKH, B. O., and M. G. LEVIN.** Perekhod ot rodoplemennykh svyazei k territorial'nym v istorii narodov severnoi Sibiri. (Akademiya nauk SSSR. Institut étnografii im. N. N. Miklukho-Maklaia. Trudy, 1951. Novaya seriya, t. 14, p. 95-108) **Title tr.:** Transition from the native tribal bonds to those of a territorial nature in the history of the peoples of the northern Siberia.

Contains an account of the social organization of Chukchis, Koryaks, Eskimos,

Ainu, Tungus, etc., with a tendency to force the ethnological facts into the framework of the Marxist theory on the evolution of social relations.

**Copy seen:** DLC.

**21500. DOLGIKH, B. O.** Proiskhozhdenie nganasanov; nekotorye predvaritel'nye zamechaniya. (Akademiya nauk SSSR. Institut étnografii. Trudy, 1952. Novaya seriya, t. 18, Sibirskii étnograficheskiy sbornik, t. 1, p. 5-87, 2 illus., 3 maps) **Title tr.:** Origin of the Nganasans; some preliminary observations.

Contains an account of these Samoyedic tribes, also called Tawgis-Samoyeds, about 1,665 persons in 1926-27 in number, living on the Taymyr Peninsula: their occupation (hunting wild reindeer and breeding domesticated ones, of which they had in 1926-27 about 60,000 head, hunting birds and fishing), their dwellings, clothing, and food, shamanism, folklore (epic songs and historical legends), language (toponymics and lexica), their social organization and family (exogamy). Traditional sayings and legends about different tribes and families since the 17th century; taxes paid in sable furs; number of people, etc. The author considers the Nganasan tribes as descendants of the western Yukaghirs who were assimilated by Samoyeds. He mentions that he had the opportunity of observing this people from 1926 to 1938.

**Copy seen:** DLC.

**21501. DOLGIKH, B. O.** Rasselenie narodov Sibiri v XVII veke. (Sovetskaya étnografiya, 1952, no. 3, p. 76-84, fold. map) **Title tr.:** Peoples settled in Siberia in the 17th century.

Contains account of the distribution of various peoples indigenous in Siberia before the Russians came there. Their areas of settlement are shown on a map prepared by Institut étnografii akademii nauk SSSR. The Samoyeds are shown as having extended further to the south at this time. A large area (eastward from the lower Lena to Anadyr' Bay) was inhabited by the Yukaghirs. The Chukchis occupied the Chukotsk Peninsula, also a locality west from the mouth of the Kolyma. The Yakuts lived as a compact mass at the junction of the Lena River with the Aldan and Vilyuy. A large area was occupied by Tungus who were not so much intermingled with other peoples as they are now.

**Copy seen:** DLC.

**21502. DOLGIKH, B. O.** Rodovoi i pllemennoi sostav narodnostei severa-

srednel Sibiri. (Akademifā nauk SSSR. Institut ētnografii. Kratkie soobshcheniā, 1949. t. 5, p. 70-85, map) **Title tr.:** Family and tribe structure among the peoples of north-central Siberia.

Demographic and economic (reindeer, etc.) data (42 tables) on Samoyeds, Yeniseians, Yakuts, Dolgans, and Tungus, according to the census of 1926-27 and later statistics of 1926-39.

**Copy seen:** DSI.

**21503. DOLGIKH, B. O.** Starinnye zemliānki ketov na reke Podkamennāia Tunguska. (Sovetskāia ētnografiā, 1952, no. 2, p. 158-65, 9 illus.) **Title tr.:** The old mud huts of Kets on the Podkamennaya Tunguska River.

Contains description of the old Yeniseian winter dwellings, based on material gathered by Taymyr expedition in 1948. The Kets, formerly nomadic hunters and fishers, now are permanently settled in the Stalino kolkhoz, where they have Russian-type houses, and try to cultivate vegetables and small domestic animals. It seems, however, that their chief occupation remains the same as it was before the Revolution, hunting and fishing (no reindeer husbandry); and wooden huts, merely more stable than formerly, have been built in the forests to serve as night-lodging for wandering hunters.

**Copy seen:** DLC.

**DOMANDER, see** Tomanterā, E. A.

**DOMANEVSKIĬ, N. A., see** Bozhich, P. K., & N. A. DomanevskiĬ. Regulirovanie morskikh poberezhii i ust'ev r. 1948. No. 20861.

**21504. DOMANIEWSKI, JANUSZ.** Contributions à la connaissance des pics paléarctiques. (Warszawa. Państwowe muzeum zoologiczne. Prace, 1925. t. 4, zes. 2, p. 75-84)

Contains critical notes and data on the distribution of palaearctic forms of woodpeckers (gen. *Picus* and *Dryobates*) and a list of 26 known subspecies of *Dryobates major*, including *D. major kamtschaticus* native to the coast of Okhotsk Sea, Kamchatka Peninsula and Bering Island. Summary in Polish. **Copy seen:** MH-Z.

**21505. DONCASTER, J. P., and H. L. G. STROYAN.** A new subgenus and new species of aphid from Jan Mayen island. (Annals & magazine of natural history, Nov. 1952. Ser. 12, v. 5, p. 984-87, illus.)

Contains descriptions of *Neokakimia*

subgen. n. and *Kakimia* (*Neokakimia*) *saxifragae* sp. n. associated with saxifrage flowers of Jan Mayen.

**Copy seen:** DGS; DSI-M.

**DONNELLY, C. B. C., see** Canada. Geodetic Service. Report on areas of NWT (Mackenzie). 1943. No. 21111.

**21506. DONNER, KAI, 1888-1935.** Bei den Samojeden in Sibirien. Stuttgart, Strecker und Schröder, 1926. x, 1, 199, 3 p. incl. front., illus. (incl. map) plates. **Title tr.:** Among the Samoyeds in Siberia.

Translation of the author's *Bland samojeder i Sibirien, dren 1911-1914*, Helsingfors 1915 (235 p.) copy at MH; 2d ed. Stockholm 1918 (217 p.) copy at NN; 3d ed. 1922. There is also a Finnish edition of this book: *Siperian samojedien keskuudessa vuosina 1911-1913 ja 1914*, 2d ed. Helsingissä 1923 (263 p.)

Narrative of the author's travels in Siberia in 1911-13 and 1914. The main topics treated are: Tomsk, the town of Narym, the village of Tymskoye, the Samoyeds of Narym, trips to the Samoyeds of the Ob', and the Tym, the Samoyeds on Ket River, their religion and folklore, trips along the Yenisey River, the Samoyeds on Taz, back to the Ob'. The last chapter "Among the disappearing tribes" deals with the author's second journey to the Kamass-Samoyeds in 1914. His ethnographic observations throughout the narrative give a comprehensive picture of the material and social culture of the Samoyed groups and some data on clothing, customs, etc., of Tungus and Yeniseians. The book is illustrated with 61 photographs of these peoples and their country, reproduction of some of their drawings and a map showing Donner's travel route.

**Copy seen:** DLC.

**21507. DONNER, KAI, 1888-1935.** Ethnological notes about the Yenisey-Ostyak (in the Turukhansk region). Helsinki, 1933. 104 p., 38 illus. (Suomalais-ugrilainen seura. Toimituksia, 66)

In 1928 a Yenisey-Ostyak student at the Institute for Living Eastern Languages (Institut zhivyykh vostochnykh iazykov) in Leningrad was sent to Finland to assist Donner in his linguistic investigations. This paper contains the descriptions of features of Yenisey-Ostyaks' (Yeniseians') life offered by the assistant in amplification or elucidation of the linguistic data (to be published as a

glossary later). These notes deal with the daily life, dwellings, clothing, food, hunting, fishing, means of communication, numerals, games, etc., reindeer-breeding, marriage and child-birth, calendar, shamanism, religious ideas, bear festival, etc. Fundamental words (about 200) are given in the Yeniseian dialect, occasionally also in Ostyak-Samoyed, throughout the text and listed as an index. Included are the assistant's sketches made in illustration of the various matters he described. **Copy seen:** DLC.

**21508. [DONNER, KAI], 1888-1935.** Forschungsreisen. (Finnisch-ugrische Forschungen. Anzeiger, 1913. Bd. 13, no. 1-3, p. 39-44) **Title tr.:** Expeditions.

*Contains* report of Donner's sojourn in 1912-13 among the Ostyak-Samoyeds living on the Rivers Tym, Tas, Ket, and Chaja; whence he brought home scores of linguistic notes from all the dialects, several hundred tales and proverbs, shamanistic songs and a large epos, also several hundred museum objects and photographs. The most difficult part of the trip was crossing of the territory between Yenisey and Ob'. Report on his 1911 trip in the Tym River region was published in this same journal for 1911, Bd. 11, no. 1-3, p. 35. A similar report on his travels and collections among Samoyed groups on the Narym, Tym, and Ket Rivers in 1911-12 appeared in the same journal 1912, Bd. 12, no. 1-3, p. 142-44. **Copy seen:** DLC; InU.

**21509. DONNER, KAI, 1888-1935.** Kamassisches Wörterbuch nebst Sprachproben und Hauptzügen der Grammatik, bearbeitet und herausgegeben von A. J. Joki. Helsinki, 1944. li, 216 p., illus., map. (Suomalais-ugrilainen seura. Lexica Societatis Fenno-Ugricae, 8) **Title tr.:** Kamassic dictionary with texts and main features of the grammar, worked out and edited by A. J. Joki.

*Contains* outline of the life and work of Donner (p. xii-li) particularly his travels in 1911-13 and 1914 among the Samoyeds; dictionary (p. 1-82), texts (p. 83-118), and main features of the grammar, by Joki (p. 119-90), of the Kamassintsy, a Samoyed group in the upper Yenisey region. Appended (p. 191-99) are supplementary data from Donner's first trip and index in German. **Copy seen:** DLC; InU.

**21510. DONNER, KAI, 1888-1935.** M. A. Castrén's memory in Russia.

(Suomalais-ugrilainen seura. Aikakauskirja, 1932. v. 45, no. 1, p.

*Contains* an extensive review of the Russian Academy of Sciences' publication (*Pamiäti M. A. Kastrena k 75-letiiu dnâ smerti*) in 1927, on the 75th anniversary of the death of Castrén, q. v. Includes as well, an account of Castrén's travels in northern Eurasia 1843-48, among the Samoyeds (mostly), the Tungus, Yenisey-Ostyaks (Yeniseians), and Kotts; also additional notes on several problems, especially on the Yeniseians (or Kets); and some corrections by Donner to his own previous articles on the Yeniseians.

**Copy seen:** DLC; InU.

**21511. DONNER, KAI, 1888-1935.** Quelques traîneaux primitifs. (Finnisch-ugrische Forschungen, 1915. Bd. 15, p. 91-104, 7 illus.) **Title tr.:** Some primitive sledges.

*Contains* a description of several types of very primitive sleighs, pulled by a man or animal in winter or in summer. They were found in 1914 among the Kamasses (Samoyeds) living north of the Sayan Mountains (govn. of Yenisey) and are compared with those of the Lapps and of the Forest or Ostyak-Samoyeds living on the Tym River. A type of sleigh ("le fardier scaphoïde") has a very similar form among the Samoyeds and the Lapps, and probably developed from skis. The Tungus of Narym, living close to the Ostyak-Samoyeds, have a different type of sleigh, although very primitive, too. **Copy seen:** DLC; InU.

**21512. DONNER, KAI, 1888-1935.** Samojedische Benennungen der Russen. (Suomalais-ugrilainen seura. Toimituksia, 1928. no. 68, p. 366-70) **Title tr.:** Samoyedic names for Russians.

*Contains* discussion of the Samoyedic word *lôs*, probably loan-word from the Ob'-Ugrian languages, meaning not only a Russian, but also a familiar spirit of a shaman. Similarly among other peoples of northern Asia: e. g. the Anadyr'-Chukchis use *kačak* as the name for a Russian and as the word for a spirit or devil; so do the Yenisey Ostyaks use *kinš*. Author concludes: these Samoyed and Ostyak words indicate that Christianity was introduced among those peoples by the Russians.

**Copy seen:** DLC; InU.

**21513. DONNER, KAI, 1888-1935.** Samojedische Wörterverzeichnisse; ge-

sammelt und neu herausgegeben. Helsinki, Suomalais-ugrilainen seura, 1932. 171 p. (Suomalais-ugrilainen seura. Toimituksia, no. 64) **Title tr.:** Lists of Samoyed words, collected and newly edited.

**Contains** 17 lists of Samoyedic words originally published incidentally in explorers' narratives (16-20th centuries) now rare or difficult of access. The word-lists are reproduced from the original publications by a photo-offset process.

**Copy seen:** DLC; InU.

**21514. DONNER, KAI, 1888-1935.** A Samoyede epic. (Suomalais-ugrilainen seura. Aikakauskirja, 1913-18. v. 30, no. 30, p. 1-13, plate)

**Contains** account of Donner's folkloristic discoveries during a sojourn on the Tym River and a trip along the Ket in autumn 1912; including an indigenous Samoyede epic heard (for the first time) from the son of a famous shaman at Metashkina, and an even richer discovery heard in Yenisey province among the so-called Natsko-Pumpokol Samoyeds. The latter is a hero-cycle known among the widely scattered tribes of Samoyeds all along the Tym down to the Ob', on the Yenisey and its tributaries, and on the Tas River. A précis of this cycle is given. Similar sagas are known also among the Ostyaks on the Vakh River.

**Copy seen:** DLC; InU.

**21515. DONNER, KAI, 1888-1935.** La Sibérie; la vie en Sibérie; les temps anciens. [Paris], Gallimard, [1946]. 243 p., illus., maps. **Title tr.:** Siberia; life in Siberia; the olden times.

Translated (by Léon Froman) from the Finnish: *Siperia; elämä ja entisyyt.* Helsinki, 1933 (271 p.) copy at MH.

The introduction offers a bird's-eye view of the area, people, and their means of subsistence. Then the geologic, geographic, archeologic, anthropologic, and linguistic aspects are treated. History from the most remote times through the Middle Ages and Russian conquest to the present time, is discussed. Special chapters deal with reindeer-breeding, social customs, the systems of designating numbers, and with shamans, human sacrifices, etc. **Copy seen:** DLC; InU.

**21516. DONNER, KAI, 1888-1935.** Ueber anlautendes *t'*-(*t'*š) und *d'*-(*d'*š) im Kamassischen und in den ausgestorbenen Sajan-samojedischen Mundarten.

(Finno-ugrische Forschungen, 1923-24. Bd. 16, p. 89-101) **Title tr.:** On the starting sound *t'*- and *d'* in the language of Kamasses and in the extinct dialects of Sayan-Samoyedic.

**Copy seen:** DLC; InU.

**21517. DONNER, KAI, 1888-1935.** Ueber das Alter der ostjakischen und wogulischen Renntierzucht. (Finnisch-ugrische Forschungen, 1927. Bd. 18, p. 115-44, 2 illus.) **Title tr.:** On the age of reindeer-breeding among the Ostyaks and Voguls.

The great majority of the Ugrians formerly lived in Europe, westward of the Ural Mountains, and were driven into Siberia by the Zyryans and Russians during the 13th and 14th centuries. The Ugrians then came into contact with the Yurak-Samoyeds and from them learned reindeer-breeding, probably in 15th century.

**Copy seen:** DLC; InU.

**21518. DONNER, KAI, 1888-1935.** Über die anlautenden labialen Spiranten und Verschlusslaute im Samojedischen und Uralischen. Helsingfors, 1920. iv, xxi, 194 p., 1 l. (Suomalais-ugrilainen seura. Toimituksia no. 49) Also published as Ph. D. thesis, Univ. of Helsingfors. **Title tr.:** On the guiding labial aspirates and shutting-up sounds in the Samoyedic and Uralic languages.

**Contains** linguistic study based on material gathered by the author during his two trips to the Samoyeds in 1911-13 and 1914. The most important conclusion made in the paper is the proof that the old Uralic language has had a \**p*- and a \**g*.

**Copy seen:** DLC.

**21519. DONNER, KAI, 1888-1935.** Ueber die Jenissei-Ostjaken und ihre Sprache. (Suomalais-ugrilainen seura. Aikakauskirja, 1930. v. 44, no. 2, p. 1-32) **Title tr.:** The Yenisey-Ostyaks and their language.

**Contains** a description of reindeer husbandry, shamanism and language of the Yeniseians (or Kets) living in the middle Yenisey basin, based on author's investigations made in the village of Dudinka, near the town of Yeniseysk (58°27' N. 92°10' E.) and on information of a native, Dibikov, brought from Turukhansk to Helsinki, for three months in 1928. According to the author, the Yeniseians' language belongs to the Indo-Chinese group. The Ostyak-Samoyeds have had great influence on the Yeniseians; almost all of whom speak Ostyak-

Samoyedians fluently (but not vice versa), and whose techniques of reindeer husbandry, fishing and hunting have been adopted from the Ostyak-Samoyeds. The shamanism of the Yeniseians, however, has a quite different form and shows some affiliations with Tungus.

**Copy seen:** DLC; InU.

**DONNER, KAI, 1888-1935, see also** Hildén, K. Notes physical anthrop. Ostyak-Samoyeds. 1939. No. 22620.

**DONNER, KAI, 1888-1935, see also** Hildén, K. Some notes anthrop. Kamassés. 1939. No. 22621.

**DONNER, KAI, 1888-1935, see also** Paasonen, H. Ostjakisches Wörterbuch. 1926. No. 24925.

**21520. DONNER, OTTO, 1835-1909.** Discours prononcé par le sénateur O. Donner. (Suomalais-ugrilainen seura. Aikakauskirja, 1907. v. 24, no. 4, p. 15-22; the same in Finnish on p. 7-14) **Title tr.:** Speech by Senator O. Donner.

**Contains** essay on the Eskimo language, compared with the languages of the Paleo-Siberians. **Copy seen:** DLC; InU.

**21521. DONNER, OTTO, 1835-1909.** Discours prononcé par le sénateur O. Donner à la séance annuelle 2. XII. 1907. (Suomalais-ugrilainen seura. Aikakauskirja, 1908. v. 25, no. 5, p. 29-36; the same in Finnish on p. 22-29) **Title tr.:** Speech by Senator O. Donner at the annual meeting on Dec. 2, 1908.

**Contains** linguistic contribution to the question of the formation of dual and plural forms in the Ostyak, Vogul, Lapp, and Samoyed languages.

**Copy seen:** DLC; InU.

**21522. DONNER, OTTO, 1835-1909.** Die Finnisch-ugrischen Völker. (Suomalais-ugrilainen seura. Aikakauskirja, 1886. v. 1, p. 120-29, map) **Title tr.:** The Finno-Ugric peoples.

**Statistical data** on all the Finno-Ugric nations are offered.

**Copy seen:** DLC; InU.

**21523. DONNER, OTTO, 1835-1909.** Die samojedischen Sprachen und die finnisch-ugrischen. (Suomalais-ugrilainen seura. Toimituksia, 1936. no. 71, p. 51-71) **Title tr.:** The Samoyedic languages and the Finno-Ugric.

**Translated and reprinted** from Atti del IV Congresso internazionale degli orientalisti, Firenze, 1881. v. 2, p. 231-51.

The author indicates several affinities of Samoyedic with Finno-Ugric in grammatical structure, and notes the many related words in these languages. He comes to the conclusion that the two ethnic families once had a common period in the development of their languages and lived in close proximity.

**Copy seen:** DLC; InU.

**21524. DONNER, OTTO, 1835-1909.** Vergleichendes Wörterbuch der finnisch-ugrischen Sprachen. Helsingfors, Frenckell & Sons bokhandel, 1874-1888. 3 pt.: vii, 192; 160; iii, 204 p. **Title tr.:** Comparative dictionary of the Finno-Ugric languages.

**In this dictionary**, published in three parts, in 1874, 1876, and 1888, the author succeeded in tracing the origin and etymology of many words. It includes (among others) language of the Samoyeds, Ostyaks, Voguls, Zyryans, Lapps and Finns. A useful index by H. Teppo q. v. was issued in 1936.

**Copy seen:** DLC.

**DONOHUE, W. L., see** Rhodes, A. J., & others. Outbreak poliomyelitis Canadian Eskimos. 1949. No. 25514.

**21525. DONS, CARL FREDRIK LINDEMAN, 1882-1949.** Bronse-ibisen i Norge. (Norske videnskabers selskab. Trondhjem. Forhandling, 1945, pub. 1946. Bd. 18, nr. 46, p. 190-92) **Title tr.:** Glossy ibis in Norway.

**Contains** taxonomic data on the glossy ibis, *Plegadis falcinellus*, on the basis of one specimen from Bodø in Nordland; discussion of its synonymy and occurrence in Norway where it is a rare bird.

**Copy seen:** DSI-M; MH.

**21526. DONS, CARL FREDRIK LINDEMAN, 1882-1949.** Coralla madreporaria norvegica in Linnei Systema naturae. Nomina corallorum saxa aedificantium. (Norske videnskabers selskab, Trondhjem. Forhandling, 1943, pub. 1944. Bd. 16, nr. 7, p. 24-26, illus.) **Title tr.:** Madreporic corals of Norway in Linne's *Systema naturae*. The names of the corals producing stony structures.

**Contains** a study of identity and synonymy of two species of stony corals, native to Greenland Sea ("habitat in O. Norvegico") described by Linné in his *Systema naturae* (10th edition) as *Madrepora pertusa* and *Amphelia ramea*; the name of the first species should be changed to *Lophelia pertusa*.

**Copy seen:** DSI-M; MH.

**21527. DONS, CARL FREDRIK LINDEMAN, 1882-1949.** Heliozoen *Microsol borealis*. (Tromsø, Norway. Museum. Aarshefter, 1918, pub. 1919. Bd. 41, nr. 1, p. 1-25, illus., plate) **Title tr.:** A heliozoan, *Microsol borealis*.

**Contains** a critical revision of a heliozoan, *Microsol (Haeckelina) borealis*, native to White Sea, (Solovetskiy Island) and Tromsø in northern Norway; with detailed study of its structure, races and forms. **Copy seen:** DSI-M; MH-Z.

**21528. DONS, CARL FREDRIK LINDEMAN, 1882-1949.** Neue und wenig bekannte Protozoen. Norske videnskabers selskab, Trondhjem. Skrifter, 1927, pub. 1928, nr. 7, p. 1-17, illus.) **Title tr.:** New and little known protozoans.

**Contains** description of one new genus and twelve species (five new) of Protozoa of Norwegian waters, including at least three species native to northern Norway: *Gothurnia pedunculata*, *G. grandis* and *Paracineta irregularis*.

**Copy seen:** DLC; MH.

**21529. DONS, CARL FREDRIK LINDEMAN, 1882-1949.** Norges korallrev. (Norske videnskabers selskab Trondhjem. Forhandling, 1943, pub. 1944. Bd. 16, p. 37\*-82\*, illus., text map. **Title tr.:** Coral reefs of Norway.

**Contains** a study of almost one hundred coral reefs known in Norwegian waters, with descriptive notes and data on distribution of *Amphelia ramea* and *Lophelia (Madrepora) pertusa*, list of localities and description of coral reefs including Nordland and Tromsø waters; hydrographic tables (depth temperature, salt content) for various fiords, northern limit of coral reefs (71° N.), popular names of corals, *Lophelia* fauna, with a systematic list of about 250 marine organisms usually found with corals; bibliography (80 items).

**Copy seen:** DSI-M; MH.

**21530. DONS, CARL FREDRIK LINDEMAN, 1882-1949.** Notes on fishes, II: On the distribution of some Labridae; VIII: Occurrence of *Regalecus* in Norway. (Norske videnskabers selskab, Trondhjem. Forhandling, 1934, Bd. 7, nr. 24, p. 85-86; (VIII) 1948, pub. 1949, Bd. 21, nr. 41, p. 181-85, text maps)

**Contains** (in pt. II) notes on the distribution of five species of Labridae in Norwegian waters north of the Cape

Stad, including *Ctenolabrus rupestris*, occurring at Ørnes, Nordland (66°55' N.). In pt. VIII is a study of Norwegian distribution of the "sildekong" (king her- ring), *Regalecus glesne*, including four finds of this "fantastic-looking fish" in Tromsø and Finnmark waters. The other parts of this work do not contain arctic material.

**Copy seen:** DSI-M; MH.

**21531. DONS, CARL FREDRIK LINDEMAN, 1882-1949.** *Ophryodendron halacaridis* n. sp. (Norske videnskabers selskab, Trondhjem. Forhandling, 1942, pub. 1943. Bd. 15, nr. 48, p. 184-85, illus.)

**Contains** a German diagnosis of *Ophryodendron halacaridis* n. sp., a protozoan found in 1919, parasitic on a hydroid near Evenskjaer, Tjellsund; also notes on *O. sertulariae*, collected also in Tromsø waters in 1916 and 1918, and closely related to the new species.

**Copy seen:** DSI-M; MH.

**21532. DONS, CARL FREDRIK LINDEMAN, 1882-1949.** *Parafolliculina röstensis* n. sp. (Norske videnskabers selskab, Trondhjem. Forhandling, 1930, pub. 1931. Bd. 3, nr. 45, p. 173-76, illus.)

**Contains** a German description of *Parafolliculina röstensis* n. sp., a trumpet-shaped protozoan, found on Røst, a small island in the Lofoten group, northern Norway, with illustrations and critical notes.

**Copy seen:** DSI-M; MH.

**21533. DONS, CARL FREDRIK LINDEMAN, 1882-1949.** Übersicht der Folliculiniden. (Norske videnskabers selskab, Trondhjem. Forhandling, 1934. Bd. 7. nr. 10, p. 31-32) **Title tr.:** Survey of Folliculinidae.

**Contains** a critical revision of two subfamilies, seven genera and 18 species of the protozoan family Folliculinidae, of which five are listed as parasites; includes at least one species, *Parafolliculina röstensis*, native to Røst, Lofoten Islands.

**Copy seen:** DSI-M; MH.

**21534. DONS, CARL FREDRIK LINDEMAN, 1882-1949.** Zwei neue Cothurnien. (Norske videnskabers selskab Trondhjem. Forhandling, 1939, pub. 1940. bd. 12, nr. 33, p. 119-21, illus.) **Title tr.:** Two new species of *Cothurnia*.

**Contains** German descriptions of two new protozoan species, *Cothurnia trophoniae* nov. nom. (*C. pedunculata* Dons 1927, nec. *C. pedunculata* Dons 1917),

and *C. trophonicola* n. sp., found epizoic on an annelid worm, *Trophonia plumosa*, in Trondheim Fiord and in Gisunde, southwest from Tromsø, northern Norway.

**Copy seen:** DSI-M; MH.

**d'ORCHYMONT, A.,** see Orchymont, Armand d', 1881-

**21535. DORFMAN, RALPH I.,** and others. The presence of a cortin-like substance (cold protecting material) in urine of normal men. (Science, Nov. 27, 1942. v. 96, p. 496-97) *Other authors:* B. N. Horwitt, and W. R. Fish.

*Contains* a report on isolation from the urine of normal man, of a substance related to the adreno-cortical steroids in its biological (cold protecting) action.

**Copy seen:** DLC.

**21536. DORIOT, GEORGES F.** Environmental protection. (American Philosophical Society. Proceedings, Sept. 1944. v. 88, no. 3, p. 196-203, fig.)

*Contains* text of a paper read Apr. 20, 1944 at the Symposium on Wartime Advances in Medicine, and dealing in general terms with the protective requirements set by the war, on clothing and footwear; the difficulties encountered in solving some problems; successes and unsolved questions, etc.

**Copy seen:** DLC.

**21537. DORNO, CARL WILHELM MAX.** Beobachtungen der Dämmerung und von Ringerscheinungen um die Sonne 1911 bis 1917. Berlin, 1917. 94 p. tables. (Berlin. Preussisches meteorologisches Institut. Abhandlungen. Bd. 5, no. 5) *Title tr.:* Observations on twilight and ring phenomena of the sun 1911 to 1917.

"Extensive observations kept and analysis made for this period before and after Katmai eruption."—*Meteorological abstracts and bibliography*, June 1950, v. 1, no. 6, p. 373.

**Copy seen:** DWB.

**DORNO, CARL WILHELM MAX,** see also Maurer, J., & C. Dorno. Über atmosphärisch-optischen Störung 1912-13. 1914. No. 24246.

**21538. DOROFEEV, S. V.** Sootnoshenie vozrastnykh grupp u tülenel kak pokazatel' sostoiāniia zapasov. (In: Sbornik N. M. Knipovicha, 1939, p. 369-82, tables 1-13) *Title tr.:* Relationship of age groups of seals as indicator of the conditions of the stock.

*Contains* a study of the relationship

between certain age and sex groups of seals, based on observations of the Greenland seal population of the White Sea in 1924-28. A constant ratio between these groups is considered as an indicator of the conditions of the stock. Summary in English.

**Copy seen:** MH-Z.

**21539. DORSEY, HERBERT GROVE, 1912-** Arctic meteorology. (In: American Meteorological Society. Committee on Compendium of Meteorology. Compendium of Meteorology, 1951, p. 942-51)

*Discussion* of arctic circulation studies; opposed concepts of arctic circulation patterns; recent improvements in observational data; circulation patterns; seasonal variations in arctic air; typical circulation patterns; meteorological problems. Bibliography (24 items).

**Copy seen:** CaMAI; DLC.

**DORSEY, HERBERT GROVE, 1912-** see also Flint, R. F., & H. G. Dorsey. Glaciation of Siberia. 1945. No. 21846.

**21540. DORST, JEAN.** Considérations systématiques sur les grives du genre *Turdus* L. (Oiseau et la revue française d'ornithologie, 1950. v. 20, no. 3-4, p. 212-48, illus., map) *Title tr.:* Systematic notes on thrushes of the genus *Turdus* L.

*Contains* a discussion of the systematic position and geographic distribution of thrushes of the genus *Turdus* divided by the author into three subgenera (*Psophocichla*, *Turdus* and *Platycichla*), with critical notes on the various groups and their geographic distribution. Groups *viscivorus* (northern Europe and Asia), *mustelinus* (Alaska, Labrador) and *chrysolaus* (northern Europe and Asia) are included.

**Copy seen:** MH-Z.

**DOUPE, JOSEPH, 1910-** see Bazett, H. C., & others. Climatic effects volume & composition blood in man. 1940. No. 20517.

**21541. DRASTRUP, ELMAR.** Grønlandsfaerd, traensnit Gitz-Johansen. København, Gyldendal, [1944]. 87 p., illus., 9 plates. *Title tr.:* Greenland expedition. Woodcuts by Gitz-Johansen.

*Popular* account of a Danish trapper's life on the northeast Greenland coast about 1930-40; its hardships and compensating freedoms; meeting with Norwegians there; native life; notes on women explorers and travelers.

**Copy seen:** DLC.

**DRECHSEL, WALTHER**, *see* Böhm, F., & W. Drechsel. Betonieren bei Frost. 1951. No. 20777.

**21542. DREVER, HARALD IRVING, and P. J. WYLLIE.** A Scottish expedition to the Rink Glacier, West Greenland. (Scottish geographical magazine, Apr. 1951. v. 67, p. 1-9, 4 plates, sketch map, diagr.)

Note on the British West Greenland Expedition, 1950, its Scottish personnel, its exploration of the area of Rink and Umiamáko Glaciers in Umanak District during three weeks of July-Aug. Brief account of the geomorphology: "uplift of a mature land surface shortly before Pleistocene glaciation, with the development of fluvial drainage . . . the resultant erosional surface is now higher towards the outer coastal margin . . . this may be due to differential upwarping of the coast during the gradual, fluctuating decline of the glaciation . . . to the possible rift displacement in Igdlorsuit Sound, or simply to uplift of the coast." P. J. Wyllie contributes a section on glaciology and special equipment (a new Seagull outboard motor, Swedish "pulka" sledges, and cane tripods with red flags for marking in glacier movement studies). Bibliography (18 items).

**Copy seen:** DGS.

**DREVER, HARALD IRVING**, *see also* Polar record. British West Greenland exped. 1950. 1951. No. 25135.

**21543. DRIĀGIN, P. A.** O nekotorykh morfoloicheskikh i biologicheskikh otlichiiakh osetra, obitaushchego v rekakh Īakutii, ot sibirskogo osetra-*Acipenser baeri* Brandt. (Zoologicheskii zhurnal, 1948. t. 27, vyp. 6, p. 525-34, illus.) **Title tr.:** Some morphological and biological distinctions of the sturgeon of the rivers of Yakutia, from the Siberian sturgeon, *Acipenser baeri* Brandt.

Contains a comparative study of the morphology and biology of the sturgeon *Acipenser baeri* living in Lena and Kolyma Rivers of Yakutia and its representatives in other Siberian rivers (Ob', Irtysh, Yenisey). A morphological description of *A. baeri chatys* n. ssp. from Kolyma River is offered, and the systematic position of Yakutian sturgeon discussed. Bibliography (37 items).

**Copy seen:** DLC; MH-Z.

**21544. DRIĀGIN, P. A.** Pomesi si-govnykh ryb reki Kolymy. (Akademiia

nauk SSSR. Zoologicheskii institut. Trudy, 1936. t. 3, p. 443-55, tables) **Title tr.:** Whitefish hybrids from Kolyma River.

Description of hybrids of *Coregonus* species collected in 1928-29 by the Kolyma ichthyological party of the Yakut Expedition of the Academy of Sciences, U.S.S.R. Summary in English.

**Copy seen:** DLC.

**DROBINTSEVA, A. B.**, *see* Arkhangel'skaia, N. A., & others. K fiziologii kholodovogo staza. 1943. No. 20305.

**DROESSLER, EARL GEORGE** 1920- , *see* Ahlmann, H. W., & E. G. Droessler. Glacier ice crystal measurements. 1950? No. 20077.

**21545. DROGAÏTSEV, D. A.** Desiat' let sluzhby pogody v Arktike. (Problemy arktiki, 1944, pub. 1945, no. 2, p. 115-19) **Title tr.:** Ten years of weather service in the Arctic.

Brief notes on organization, development, and operation of the network of arctic meteorological and hydrographic stations in U.S.S.R. Their service in weather and ice survey and forecasting for navigation and aviation in the region of Northern Sea Route in decade 1934-44 is stressed, especially work on Dikson Island.

**Copy seen:** DGS.

**21546. DROGAÏTSEV, D. A.** Elementy vektornogo analiza polia davleniia i temperatury vozdukh v Karskom more. (Problemy arktiki, 1944, pub. 1945, no. 2, p. 59-74, diagrs.) **Title tr.:** Elements of the vector analysis of the field of atmospheric pressure and temperature in Kara Sea.

"The author points out an important shortcoming of mean monthly charts of pressure and temperature, namely they do not allow one to establish the course of the elements from month to month or from year to year for a specific month. He, therefore, offers a method of graphic presentation of meteorological processes where the mean monthly values are expressed not in figures but in gradients, and the plotting on the same chart of values for a given period of time reveals the long range trend of the element. Charts constructed by this method for pressure and temperature in the eastern part of the Kara Sea [on the basis of data from stations at Dikson, Domashnyi Islands and Cape Chelyuskin] for various periods of time—13 years (1930-1943),

4 years (1930-1934, 1934-1938), etc., disclose the trends of variation of these elements and their inter-relation."—*Metereological abstracts and bibliography*, Apr. 1952. v. 3, no. 4, p. 325.

**Copy seen:** DGS.

**21547. DRONGOVSKIĬ, M.** Kombinatsionnaya Murmanskoi zh. d. i industrializatsii Karelo-Murmanskogo kraia. (Leningradskaya oblast', Nov.-Dec. 1928, v. 1, no. 11-12, p. 129-34) **Title tr.:** The Murman railway combine and the industrialization of the Karelo-Murman region.

An account of the development of the Murman railway since the creation of the combine in 1923, its relation to the port of Arkhangel'sk and mutual effects of railway and harbor on each other. The influence of the railway on the forest and fishing industry and on the mining of the Khibiny region is also noted.

**Copy seen:** DLC.

**21548. DRUMMOND, L. E.** A year of progress in the North. (Western miner, Feb. 1950. v. 23, no. 2, p. 50-52)

Contains a general report on mining, including Northwest and Yukon Territories, and a more specific but brief report on highway, river and air transportation.

**Copy seen:** DGS.

**21549. DRYGALSKI, ERICH von, 1865-1949.** Arktis und Antarktis. (Geographische Gesellschaft in Wien. Mitteilungen, 1939. Bd. 82, p. 317-18) **Title tr.:** Arctic and Antarctic.

Note comparing the two polar regions and the effects of their ocean currents with different heat content and water layers, upon coasts and climates.

**Copy seen:** DGS.

**DRYGALSKI, ERICH von, and F. MACHATSCHEK.** Gletscherkunde, Wien, 1942, see Haushofer, K. Eisgrenzen d. Geopolitik. 1943. No. 22470.

**DUBININ, V. B.,** see Garutt, V. E., & V. B. Dubinin. O skelete Taimyrskogo mamonta. 1951. No. 22022.

**21550. DUBININA, M. N.** O biologii i rasprostraneni Diphyllobothrium erinacei-europaei (Rud., 1819) Iwata, 1933. (Zoologicheskii zhurnal, 1951. t. 30, vyp. 5, p. 421-29, illus., text map) **Title tr.:** On the biology and distribution of Diphyllobothrium erinacei-europaei (Rud., 1819) Iwata, 1933.

Contains the results of an experi-

mental study on the life history of a parasitic flatworm, *Diphyllobothrium erinacei-europaei*, with data on its biology, intermediary hosts (frogs, snakes, birds, dogs, cats and men) and geographic distribution. It was found in arctic foxes and dogs on the Commander Islands in Bering Sea.

**Copy seen:** MH-Z.

**DUBNITSKIĬ, A. A.,** see Petrov, A. M., & A. A. DubnitskiĬ. K izucheniiu *Strongyloides vulpis*. 1946. No. 25058.

**21551. DUBOIS, GEORGES, and R. L. RAUSCH.** Troisième contribution à l'étude des strigeides (Trematoda) nord-américains. (Société Neuchâteloise des Sciences Naturelles. Bulletin, 1950. Sér. 3, t. 73, p. 19-50, illus.) **Title tr.:** Third contribution to a study of the North American strigeids (Trematoda).

Sixteen species of parasitic flatworms are identified from birds and mammals, including four bird hosts and one wolf host from Alaska. Of the three new species and two new varieties described, one n.sp. and both n.var. were from Alaskan hosts. Bibliography (30 items).

**Copy seen:** DGS.

**DUCHANNOIS, FRANCIS R., 1920-**, see Gjullin, C. M., & others. Effect some insecticides on black fly larvae. 1949. No. 22127.

**21552. DUDA, OSWALD.** Revision der europäischen und grönländischen sowie einiger südostasiatischen Arten der Gattung *Piophilula* Fallén (Dipt.). (Konowia, 1924. Bd. 3, heft 2-3, p. 97-113; heft 4-6, p. 153-203) **Title tr.:** A revision of European, Greenlandic and also some southeastern Asiatic species of the genus *Piophilula* Fallén (Diptera).

Contains a critical revision of the dipterous genus *Piophilula*, with keys to the sub-genera and species, synonyms, descriptions, critical notes and data on geographic distribution of the species of this genus. Includes *Allopiophilula aterima* from Novaya Zemlya, *A. vulgaris* from Swedish Lapland, *Lasiopiophilula pilosa*, native to Greenland and *Mycetulus bipunctatus* from Swedish Lapland.

**Copy seen:** MH-Z.

**DUDIN, S. M.,** see Anuchin, V. I. Ocherk shamanstva. 1914. No. 20245.

**21553. DÜCKER, ALFRED.** Über die Entstehung von Frostspalten. (Naturwissenschaftlicher Verein für Schleswig-Holstein. Schriften, 1951. Bd. 25, p.

58-64) **Title tr.:** On the formation of frost wedges.

"Wedge-shaped fissures in rock material near the ground surface are the result of pressure forces which originate during the transition of water into ice in a closed system. Investigations of permafrost structure in Alaska show that the vertical ice veins are not originally contraction crevices, but the result of a single steady freezing process directed downward in a frost-susceptible soil. The process leads to a horizontal and vertical separation and concentration of pure ice masses. The steady addition of water from the unfrozen subsoil and the change into ice causes a vertical heaving of the soil which is greatest in the vicinity of the vertical ice veins."—SIPRE.

**Copy seen:** DGS.

**21554. DUFFEY, ERIC, and D. E. SERGEANT.** Field notes on the birds of Bear Island. (Ibis, Oct. 1950. v. 92, p. 554-63)

*Contains* introductory remarks on the birds recorded previously; on predation of the arctic fox (the only land mammal which "must live almost solely on birds during the summer"); on climatic fluctuation, which since 1940 has been reversed from the amelioration of 1900-1940, resulting in a decrease of breeding; on southern species noted earlier; and on non-breeding birds; followed by field notes on 28 species observed during July 18-Aug 20, 1948. Bibliography (18 items).

**Copy seen:** DSI-M.

**21555. DUFFEY, ERIC.** Field studies on the fulmar *Fulmarus glacialis*. (Ibis, 1951. v. 93, no. 2, p. 237-51)

*Contains* observations on marked fulmars, made in Ireland and continued on Bjørnøya in July-Aug. 1948, and on Fair Island in 1949, with records (table 1) and notes on relationship between chick and parent birds, food and feeding habits. For additional information on the behavior of the chicks, see E. Armstrong *Discharge of oily fluid by young fulmars*, 1951.

**Copy seen:** MH-Z.

**21556. DUFFEY, ERIC, and others.** The "rodent run" distraction-behavior of certain waders. (Ibis, Jan. 1950. v. 92, p. 27-33)

Pt. 1, "Field observations on the purple sandpiper," by E. Duffey and N. Creasey, describes in clear detail the behavior of several sandpipers observed on Bear Island in 1948.

Pt. 2, "Interpretation of 'rodent-run' display," by K. Williamson, analyzes the nature and origin of distraction displays, and notes the misleading of arctic foxes and man. Appendix notes eight other species in which the "rodent-run" occurs. Bibliography (23 items).

**Copy seen:** DSI-M.

**DUFFEY, ERIC, see also Armstrong, E. A.** Discharge of oily fluid by fulmars. 1951. No. 20308.

**21557. DUFRESNE, FRANK, 1895- .** The snowy owl—destroyer of game. (American wildlife, July 1922. v. 11, no. 3, p. 11-12, illus.)

Intensive study in the winter of 1920-21 in the Nome region of Seward Peninsula, convinced the writer of the destructiveness of the snowy owl, which by careful estimate will destroy three hundred game birds in a year.

**Copy seen:** DI.

**21558. DUGAL, LOUIS-PAUL, 1911- . and M. THÉRIEN.** Ascorbic acid and acclimatization to cold environment. (Canadian journal of research. June 1947. v. 25, sec. E, p. 111-36, diagrs.)

Experiments on rats showed large increase in ascorbic acid content of tissues after prolonged exposure and adaptation to cold; a decrease however in rats unable to adapt to cold; and a direct relation between adaptability and the content of ascorbic acid in the adrenals. Bibliography (16 items).

Abstracted in Federation proceedings, 1949, v. 8, p. 156. **Copy seen:** DLC.

**21559. DUGAL, LOUIS-PAUL, 1911- . and G. FORTIER.** Ascorbic acid and acclimatization to cold in monkeys. (Journal of applied physiology, 1952. v. 5, no. 3, p. 143-46, 2 tables)

*Contains* a report on experiments with rhesus monkeys, showing that animals pre-exposed to 10° C. for six months and receiving daily 25 mg. vitamin C, did not resist better to intense cold, than controls kept at room temperature and taking the same amount of vitamin; but monkeys pre-exposed to 10° C. and given 325 mg. of vitamin C daily, resisted better to extreme cold than controls kept at room temperature prior to exposure, and better than the group which received only 25 mg. of ascorbic acid daily. Bibliography (9 items).

**Copy seen:** DLC.

**21560. DUGAL, LOUIS-PAUL, 1911-** , and **G. FORTIER.** Ascorbic acid and acclimatization to cold in monkeys. (*Revue canadienne de biologie*, Mars 1952. v. 11, no. 1, p. 59-60)

*Contains an abstract on experiments with monkeys, showing that animals pre-exposed to mild cold and receiving 25 mgs/day of vitamin C did not resist intense cold better than controls pre-exposed to room temperature; animals similarly treated but given 325 mgs of vitamin daily, withstood severe cold better than their controls kept first at room temperature, and better than the animals pre-exposed to cold and receiving only 25 mgs. daily.*

*Copy seen:* DLC.

**21561. DUGAL, LOUIS-PAUL, 1911-** , and **M. THÉRIEN.** Effets de l'acide glutamique et d'extraits de foie sur la résistance du rat blanc à un froid intense. (*Revue canadienne de biologie*, July 1952. v. 11, no. 2, p. 180-84, 2 tables) *Title tr.:* The effects of glutamic acid and liver extract on the resistance of the white rat to intense cold.

*Contains a report on experiments showing that addition of 1 per cent glutamic acid to a normal diet did not increase significantly the resistance of rats to low temperature; commercial liver extract added to a similar diet seemed to diminish their resistance to cold. Bibliography (9 items). Summary in English.*

*Copy seen:* DLC.

**21562. DUGAL, LOUIS-PAUL, 1911-** , and **M. THÉRIEN.** The influence of ascorbic acid on the adrenal weight during exposure to cold. (*Endocrinology*, May 1949. v. 44, p. 420-26)

*Contains a report on experiments with guinea pigs and rats exposed to low temperatures and injected with large doses of ascorbic acid (vitamin C). The typical enlargement of the adrenal, repeatedly observed in cold injuries was "completely prevented" and the resistance to cold increased. Ascorbic acid thus seems to play a compensatory role similar to that of adrenal cortical hormones. These experiments were made at the Research Dept. on Acclimatization, Institute of Human Biology, Medical School, Laval University. Bibliography (22 items).*

*Copy seen:* DLC.

**21563. DUGAL, LOUIS-PAUL, 1911-** , and **M. THÉRIEN.** Relation entre la teneur en acide ascorbique des organes

et l'acclimatation au froid chez le cobaye. (*Revue canadienne de biologie*, 1947. v. 6, p. 552-53) *Title tr.:* Relation between ascorbic acid content of the organs and acclimatization of the guinea pig to cold.

*Contains a report on experiments which demonstrated that groups or individuals which contained more ascorbic acid in their organs, especially in the adrenal, acclimatized much better to cold. Animals exposed to cold also withdrew more ascorbic acid from their organs especially from the adrenal, than those kept at normal temperature; individuals which did not acclimatize well contained little ascorbic acid in the adrenal glands.*

*Copy seen:* DLC.

**21564. DUGAL, LOUIS-PAUL, 1911-** , and *others.* Resistance to extreme temperatures in connection with different diets. (*Canadian journal of research*, Dec. 1945. v. 23, sect. E, p. 244-58) *Other authors:* C. P. Leblond, and M. Thérien.

*Contains a study on the value of different diets for conferring on animals resistance to extreme temperatures. The diets were equi-caloric and equi-vitaminic, and differed only in the proportions of fats, proteins and carbohydrates. The self-selective method of feeding was applied. A diet rich in fat was found to be "decidedly superior" to one rich in carbohydrates, for resistance and adaptation to cold. Bibliography (11 items).*

*Copy seen:* DLC.

**DUGAL, LOUIS-PAUL, 1911-** , *see also* Desmarais, A., & L.-P. Dugal. Circulation chez rat blanc. 1950. No. 21449.

**DUGAL, LOUIS-PAUL, 1911-** , *see also* Fortier, G., & L.-P. Dugal. Adrénaline et résistance au froid. 1952. No. 21892.

**DUGAL, LOUIS-PAUL, 1911-** , *see also* Thérien, M., & L.-P. Dugal. Ascorbic acid & acclimatization animals to cold. 1949. No. 26660.

**DUGAL, LOUIS-PAUL, 1911-** , *see also* Thérien, M., & *others.* Effets acide ascorbique. 1949. No. 26661.

**DUGAL, LOUIS-PAUL, 1911-** , *see also* Thérien, M., & L.-P. Dugal. Nécessité acide ascorbique acclim. froid cobaye. 1947. No. 26662.

**DUGAL, LOUIS-PAUL, 1911-** , *see also* Thérien, M., & L.-P. Dugal. Studies re-

lations ascorbic acid & adrenal function. 1952. No. 26663.

**21565. DUNAIEVA, TAT'IANA N., and V. V. KUCHERUK.** Materialy po ékologii nazemnykh pozvonochnykh tundry Ĭžhnogo Ĭamala. Moskva, 1941. 80 p. (Moskovskoe obshchestvo ispytatelei prirody. Materialy k poznaniu fauny i flory SSSR. Novaya seriya, otdel. zool., vyp. 4 (XIX)) *Title tr.:* Materials on the ecology of terrestrial vertebrates of the tundra of southern Yamal Peninsula.

On the basis of the author's investigations during his three summer trips in 1937-39, he gives data on the physical geography of the southern part of the Yamal Peninsula and his observations on the ecology of some birds (*Passeriformes* and *Lagopus lagopus*) and various rodents, with data on reproduction, mortality, food and enemies. Factors influencing the animal life in tundra zone are discussed. Bibliography (93 items).

*Copy seen:* MH-Z.

**21566. DUNBAR, MAXWELL JOHN, 1914-** . A. L. Washburn. (Arctic, Mar. 1952. v. 5, no. 1, p. 3, port.)

Tribute to work of Dr. Washburn as first executive director of Arctic Institute of North America, 1945-51.

*Copy seen:* DLC.

**21567. DUNBAR, MAXWELL JOHN, 1914-** . The *Calanus* expedition 1951, and plans for 1952. (Arctic circular, Mar. 1952. v. 5, no. 3, p. 25-27)

Contains account of the season's work of the Canadian Fisheries Research Board vessel June-Sept. 1951, in Ungava and Frobisher Bays: cruise from Chimo to Abloviak, from Chimo to George River, hydrographic section between George River and Akpatok Island; hydrographic and hydrobiologic sections through Frobisher Bay combined with soundings, experiments in trawling and line fishing; hydrographic studies and fishing at Ogak Lake (at the head of Ney Harbour); work on the arctic char on the Sylvia Grinnell River, etc. The program for 1952 in Baffin Island waters with E. H. Grainger in charge is noted.

*Copy seen:* DLC.

**21568. DUNBAR, MAXWELL JOHN, 1914-** . The caribou of northeastern Ungava. (*In:* The Province of Quebec Association for the Protection of Fish &

Game. Annual report, 91st, May 1950, p. 10-14)

Contains a memorandum on the disappearance of the caribou (*Rangifer caboti*) from the Chimo region in 1919; the depletion of this population south and east of Chimo, largely through unlimited hunting by the Hebron Eskimos; possible damage done by tundra fires. Preventive measures as well as extended study of life of this caribou (by Mr. Bob May, who supplied data for this paper) are recommended.

*Copy seen:* CAMAL.

**21569. DUNBAR, MAXWELL JOHN, 1914-** . Eastern arctic waters. Ottawa, 1951. 3 p.l., 131 p., front. (map), illus. (incl. 20 map-diags.). (Canada. Fisheries Research Board. Bulletin no. 88)

"A summary of our present knowledge of the physical oceanography of the eastern arctic sea, from Hudson Bay to Cape Farewell and from Belle Isle to Smith Sound."—Subtitle. The opening chapter on history and sources gives a chronological list of expeditionary work in oceanography, 1860-1949; oceanographic descriptions include bathymetry, sediments, water masses, horizontal temperature-salinity distribution, circulation (including the West Greenland, Baffin Land, and Labrador Currents) oceanography of fiords, the seasonal and long-term changes, and the delineation of arctic and subarctic zones. Bibliography (about 278 items).

*Copy seen:* DF; DLC; DSI-M.

**21570. DUNBAR, MAXWELL JOHN, 1914-** . Feed-back systems and oceanography. (American scientist, Oct. 1950. v. 38, p. 599-603, sketch map)

Discussion of possible cyclical effects of feedback systems in oceanic circulation, using the Atlantic drift, polar basin, and eastern Canadian Arctic current systems as examples and suggesting effects relating to climate and sea level. Bibliography (10 items). *Copy seen:* DGS.

**21571. DUNBAR, MAXWELL JOHN, 1914-** . On *Themisto libellula* in Baffin Island coastal waters. (Canada. Fisheries Research Board. Journal, Mar. 1946. v. 6, p. 419-34, illus., sketch map, diags.)

Study of the "gross internal anatomy, food habits, local summer ecology and breeding cycle" of a schizopod crustacean collected largely in Lake Harbour, southern coast of Baffin Island, 1939-40, and

from Frobisher Bay, 1940; a planktonic organism serving as the most common food of the ringed seal. Bibliography (14 items) **Copy seen:** DLC; DSI-M

**21572. DUNBAR, MAXWELL JOHN, 1914-** . Our ignorance of the eastern Arctic. (Public affairs, Dec. 1946. v. 10, p. 25-29)

Plea for research into marine and aviation problems; for study and conservation of walrus and seal; and for investigation of effects of amelioration of climate on eastern Canadian arctic waters and their populations.

**Copy seen:** DLC.

**21573. DUNBAR, MAXWELL JOHN, 1914-** . Resources of arctic and subarctic seas. (Royal Society of Canada. Transactions, June 1951. Ser. 3, v. 45, sect. 5, p. 61-67)

Contains discussion of the fundamental importance of the sea for an arctic economy; the physical and chemical properties of arctic, subarctic and boreal seawater; arctic waters as habitat of sea mammals, subarctic as that of fish, and apparent reasons for this difference; differences in productivity between arctic and subarctic seas; differences in water polymer content between the two areas as possible causative factor in productivity. Bibliography (7 items).

**Copy seen:** DLC.

**21574. DUNBAR, MAXWELL JOHN, 1914-** . The Ungava Bay problem. (Arctic, Mar. 1952. v. 5, no. 1, p. 4-16, illus., map)

Contains a presentation of the problem of a disrupted native economy, to be solved by immediate assimilation, or alternately by putting Eskimo life as closely as possible on its original basis. Stressing the advantages of the latter, the author analyzes in detail the poor condition of marine mammal life and hunting; also, similarly, the inadequacy of fresh-water fishes and fisheries to serve as economic basis for Eskimos of Ungava region. He suggests that developing marine fisheries in the Port Burwell area could solve the problem and recommends several measures, including educational, to place the Eskimo economy on a healthy footing.

**Copy seen:** DLC.

**DUNBAR, MAXWELL JOHN, 1914-** , see also Canada. Fisheries Research Board. Annual report 1950. 1951. No. 21108.

**DUNBAR, MAXWELL JOHN, 1914-** , see also Canada. Fisheries Research Board. Annual report 1951. 1952. No. 21109.

**DUNBAR, MAXWELL JOHN, 1914-** , see also Polar Record. Ungava B. fisheries exped. 1947-49. 1951. No. 25172.

**21575. DUNBAR, MOIRA.** High latitude navigation flights. (Arctic circular, Dec. 1951. v. 4, no. 6, p. 88-92)

"A series of flights [by a North Star based at Churchill] for the purpose of testing a number of navigation instruments and techniques under arctic conditions was carried out by the Central Experimental and Proving Establishment of the R. C. A. F.," Oct. 25-Nov. 3, 1951. The participants, instruments tested and the results are briefly noted, and (in more detail) the itinerary of the three flights, flying conditions, terrain, ice, etc.

**Copy seen:** CaMAI; DLC.

**DUNBAR, MOIRA,** see also Koenig, L. S., & others. Arctic ice islands. 1952. No. 23348.

**21576. DUNCAN, A. C.** Diet and disease in the subarctic. (Lancet, Dec. 20, 1947, v. 253, p. 919-21)

Contains account by physician at St. Mary's Hospital at Dawson (pop. 1,500-2,000) in Yukon Territory, of seeming immunity of people in this area to a number of apparently unrelated diseases. In his 14 years' experience there, no local case of rheumatic fever was observed and one imported case improved remarkably with no acute remissions; tonsillitis, septic throats and upper respiratory infections show the usual or somewhat higher incidence. Only one case of toxemia of pregnancy was recorded during the whole period and premature births are very rare; despite a high alcohol consumption, liver cirrhosis is rare; nephritis and related diseases are unknown; only two cases of cancer were observed. The author attributes the rarity of these diseases to the high protein diet of the populace.

**Copy seen:** DLC.

**DUNDAS, GEORGE S.,** see Pitcher, P. N., & G. S. Dundas. Sinking Giant Yellowknife "C" shaft. 1951. No. 25106.

**21577. DUNGAL, NIELS.** Occurrence and manifestations of tuberculosis in

Iceland. (*Acta tuberculosea scandinavica*, 1945. v. 19, p. 275-308, tables)

*Contents:* material; method of work; initial lesions; active tuberculosis; portals of entry; comparison with child tuberculosis in other countries; from conclusions: tuberculosis in Iceland is contracted at any age, the greatest number of infections taking place in the third decade; about 50 percent of the population show no signs of having ever been affected by TB. Resistance is very slight in the young age-groups; re-infections are rare; acute forms of TB are prevalent during the first five decades, especially in the first two; it is relatively common in old people often without conspicuous clinical symptoms; all TB in Iceland is of human origin; respiratory tract is main portal of entry. Bibliography (13 items). *Copy seen:* DSG.

**21578. DUNGAL, NIELS.** Rickets in Iceland. (*American journal of the medical sciences*, 1945. v. 210, p. 70-76, illus., tables)

Report on survey on 253 children (3-24 months old) in Iceland. Each child was examined clinically and with x-rays of wrist and knee, usually also of crus and ankle. "The clinical examination showed definite signs of rickets in 66 percent. Of these, 35 percent had a visible Harrison's groove, 44 percent a rachitic rosary, and definite signs of cranial rickets were found in at least 54 percent. Roentgen-ray photographs showed signs of rickets in 75 percent of the children." Results of clinical and x-ray examinations showed an incidence of 77 percent with rickets. (—From summary). Bibliography (5 items).

*Copy seen:* DSG.

**21579. DU RIETZ, GUSTAF EINAR, 1895-** . Lichenologiska fragment, III-VII. (*Svensk botanisk tidskrift*, 1921-1925. Bd. 15, p. 181-91; bd. 16, p. 69-76; bd. 17, p. 83-95; bd. 18, p. 141-55; bd. 19, p. 70-83) *Title tr.:* Lichenological fragments, 3-7.

*Contains* notes on occurrence of various lichens, of which species of *Cladonia* (in IV) and *Xanthoria* (in VII) are recorded in northern Sweden.

*Copy seen:* DA.

**21580. DU RIETZ, GUSTAF EINAR, 1895-** . Problems of bipolar plant distribution. (*Acta phytogeographica suecica*, 1940. t. 13, *Växtgeografiska*

*studier tillägnade C. Skottsberg*, p. 215-82, text maps)

*Contains* a study of the types of bipolar distribution in relation to species, or groups of very closely related species, genera, or other high taxonomic units; discussion of the causes of bipolar distribution such as bipolar differentiation, transtropical migration, long distance dispersal, transtropical highland bridges, "monoboreal relics" and transantaretic connection; the problem of the antiquity of bipolar distribution is considered; bibliography (about 250 items).

*Copy seen:* DA; MH-A.

**21581. DURRELL, W. H.** Labrador iron ore and the St. Lawrence seaway. (*Engineering and mining journal*, May 1950. v. 151, no. 5, p. 92-93)

Discussion in general of transportation problems faced by the new operators of the Labrador-Quebec iron mines at about 54°N. 67°W.

*Copy seen:* DGS.

**21582. DUTILLY, ARTHÈME ANTOINE, 1896-** . A bibliography on the relation of mosquitoes to vegetation in the Eurasian Arctic and Subarctic. Washington, 1950. xi, 108 p. (U. S. Dept. of the Army. Office of the Quartermaster General. Military Planning Division. Research and Development Branch. Environmental Projection Section. Report No. 162; Contract W44-109-qm-1297)

List of 408 references to papers, parts of books or papers, mainly in Scandinavian languages, Finnish, or Russian, with most non-English titles translated and many annotations. Relates to the biology, ecology, medical importance and control of mosquitoes within and outside the Arctic. Includes a list of 240 scientific names of mosquitoes.

*Copy seen:* CaMAI; DSI-M.

**21583. DUTILLY, ARTHÈME ANTOINE, 1896-** , and **E. LEPAGE.** Exploration sommaire de la rivière Harricana. (*Naturalist canadien*, sept. 1951. v. 78, p. 253-83, illus., sketch maps) *Title tr.:* Reconnaissance of the Harricana River.

*Contains* description of the surface geology and vegetative characteristics along the Harricana River in the Quebec-Ontario boundary region between 48°51'-51°N. lat., observed during a canoe trip in June-July 1946. Plants are listed and their geographic distribution discussed, especially in relation to the James Bay - Northern Quebec life zones. Reprint (39 p.) with cor-

rections was issued as Contribution no. 3, of the Arctic Institute of Catholic University of America, Washington, D. C., 1952. **Copy seen:** CaMAI (reprint); DLC.

**21584. DUTILLY, ARTHÈME ANTOINE, 1896-**, and **E. LEPAGE.** La traversée de l'Ungava en 1945. Washington, 1951. 130 p., illus., sketch maps. Reprinted with changes in pagination and corrections from *Naturalist canadien*, v. 77, p. 136-61, mai-juin 1950; v. 78, p. 5-77, jan-avr. 1951; and issued as a "contribution of the Arctic Institute, the Catholic University of America." **Title tr.:** The traverse of Ungava in 1945.

**Contains** in part 1 (p. 3-48) a journal of the authors' boat trip from Moosonee on James Bay to Richmond Gulf, June 23-July 17, and thence by canoe, via Seal Lake, Clearwater, Larch and Koksoak Rivers to Chimo on Ungava Bay, July 18-Aug. 13, 1945. Includes descriptive notes on the general aspect of the country traversed, and the plant assemblages observed; pt. 2 (p. 49-121) is an annotated list with localities and dates, of over 450 seed plants and ferns collected between Cape Jones and Fort Chimo, 54°30'-58°06'N. in northern Quebec, along Great and Little Whale Rivers, Clearwater River and Lake, Seal Lake, Larch and Koksoak Rivers. Index of plant names, p. 123-30.

**Copy seen:** DAI.

**21585. DUTRO, J. THOMAS.** Devonian faunas of the western Brooks Range, Alaska. (Geological Society of America. Bulletin, Dec. 1951. v. 62, p. 1434) Abstract of paper submitted at the Society's meeting in Detroit, Nov. 8-11, 1951.

**Copy seen:** DGS.

**21586. DUTRO, J. THOMAS, and others.** Facies in Carboniferous rocks of northern Alaska. (Geological Society of America. Bulletin, Dec. 1951. v. 62, p. 1434-35) **Other authors:** A. L. Bowsher and W. P. Brosigé. Abstract of paper submitted at Society's meeting Detroit, Nov. 8-11, 1951. **Copy seen:** DGS.

**DUTRO, J. THOMAS, see also** Bowsher, A. L. & J. T. Dutro. Stratigraphy & paleontol. Brooks Range. 1950. No. 20853.

**21587. DWORKIN, SIMON.** Observations on the central control of shivering. (American journal of physiology, May 1930. v. 93, p. 227-44, 12 fig.)

**Contains** an account on experiments with rabbits whose brain stem was transected at various levels and the shivering capacity tested soon thereafter. At about the level of the calamus shivering was replaced by a less integrated, less generalized and less intense muscular response, but there was no abrupt disappearance at lower levels. Gains in body temperature due to shivering occurred in many animals, suggesting that some vestige of heat regulating mechanism was still present in the animals with most of the brain functionally removed. Bibliography (22 items).

**Copy seen:** DLC.

**21588. DYAR, HARRISON G.** New mosquitoes from Alaska (Diptera, Culicidae). (Insector insectiae menstruus, Jan.-Mar. 1922. v. 10, no. 1-3, p. 1-3)

**Contains** description of two new species: *Aedes punctodes* and *Aedes proluxus*, with localities in several parts of central and southern Alaska where specimens (male and female) of both forms were collected for the U. S. National Museum.

**Copy seen:** DSG.

**21589. DYBOWSKI, WLADISLAW, 1839-1910.** Beitrag zur Kenntniss der Mollusken-Fauna Kamtschatka's. (Akademiā nauk SSSR. Zoologicheskii muzei, Ezhegodnik, 1903. t. 8, no. 1, p. 40-55, illus.) **Title tr.:** Contribution to the knowledge of molluscan fauna of Kamchatka Peninsula.

**Contains** an enumeration of 17 species of fresh-water molluscs collected by the author on Kamchatka Peninsula, including German description of *Valvata stelleri* and *Planorbis moellendorffii* n. spp. and three new varieties; critical notes and a table of distribution of these forms in Kamchatka, eastern Siberia and Europe.

**Copy seen:** DLC; MH-Z.

**21590. DYRENKOVA, N. P.** Poluchenie shamanskogo dara po vozzreniiam turetskikh plemen. (Akademiā nauk SSSR. Muzei antropologii i étnografii. Sbornik, 1930. t. 9, p. 267-91) **Title tr.:** Attainment to the shamanistic call according to the ideas of Turcic tribes.

**Contains** study of how a shaman gets his vocation; with many references to Yakut shamanism from printed sources.

**Copy seen:** DLC.

**21591. DZENS-LITOVSKIĬ, A. I.** Mno-goletniā merzlota na dne ozera Razval v Ilek'skoĭ Zashchite. (Akademiā nauk

SSSR. Laboratoriĭa gidrogeologicheskikh problem. Trudy, 1951. v. 10, p. 130-41, illus., diagrs., tables, maps) **Title tr.:** Permafrost on the bottom of Lake Razval at Iletskaia Zashchita.

**Contains** a study of the permafrost condition at the bottom of this small lake (1.5 x 2 km.) which is located 20 km. south of Chkalov (51°45' N. 55°06' E.). The study, begun in 1936 deals with the geology of the lake and surroundings; bathymetry; temperature conditions, transparency and permeability to heat rays and with the chemistry of the water. Special attention is given to the problem of formation and constancy of the permafrost layer, the depth of its upper limit, thickness and long-range temperature changes as well as the specific local causes of the persistence of the permafrost during summer. Bibliography (14 items).

**Copy seen:** DLC.

**DZERDZEEVSKIĬ, BORIS L'VOVICH, 1898-**, see Bugaev, V. A. B. L. Dzerdzevskii. TSirk, skhemy. 1947. No. 21012.

**21592. DZEVANOVSKIĬ, IŮ. I.** On the discovery of Archaeocyathidae reefs along the Aldan River, Yakutia. (Akademika nauk SSSR. Comptes rendus (Doklady), 1942. nouv. ser., v. 36, no. 1, p. 26-28, diagr.)

"Refers the Archaeocyathidae-bearing beds along the left bank of the central part of the Aldan River, to the upper part of the lower Cambrian and concludes that they are reef deposits."—Geological Society of America, *Bibliography and index of geology*, 1941-42. v. 9, p. 75.

**Copy seen:** DLC.

**21593. DZIURZYNSKI, KLEMENS.** *Bupalus piniarius* L. (Lep. Geom.) Formen der Europäischen Fauna. (Berliner entomologische Zeitschrift. 1912. Bd. 57, Heft 1-2, p. 1-13, illus., plates 1-2) **Title tr.:** *Bupalus piniarius* L. (Lep. Geom.) forms of the European fauna.

**Contains** a critical revision of European forms of a moth, *Bupalus piniarius*, widely distributed in Europe and Asia, with a list of 14 forms, including *F. unicolora* and *F. mughusaria* native to northern Norway. **Copy seen:** MH-Z.

**21594. DZIURZYNSKI, KLEMENS.** Die palaearktischen Arten der Gattung *Zygaena* F. Verzeichnis und Synopsis sämtlicher zur palaearktischen Fauna

gehörigen Arten und Formen der Lepidopteren Gattung *Zygaena* F. (Anthracera Scop.). (Berliner entomologische Zeitschrift, 1908. Bd. 53, Heft 1, p. 1-60, illus., plates 1-2) **Title tr.:** Palaearectic species of the genus *Zygaena* F. A list and synopsis of all species and forms of the lepidopterous genus *Zygaena* of the palaearectic fauna.

**Contains** a discussion of the genus and its subdivision and a synopsis of 72 species and numerous forms of zygaenids inhabiting palaearectic regions, including *Zygaena filipendulae* f. *arctica* from Groto in northern Norway (68° N.) and *Z. exulans* f. *vanadis* native to Finnish Lapland.

**Copy seen:** MH-Z.

**EADE, K. E.**, see Baird, P. D., & others. Baffin I. Exped. 1950; prelim. report. 1950. No. 20413.

**21595. EARDLEY, ARMAND JOHN, 1901-**. Tectonic divisions of North America. (American Association of Petroleum Geologists. Bulletin, Oct. 1951. v. 35, p. 2229-37, 2 sketch maps)

A review of the tectonic framework of North America, including notes on the Canadian and Greenland shields, the arctic stable region and orogenic belts extending into Alaska and western Canadian Arctic. **Copy seen:** DGS.

**21596. EARLE, ROBERT A.** Surveying difficulties in the Arctic. (U. S. Coast and Geodetic Survey. Journal, Apr. 1949. no. 2, p. 81-82, illus.)

From a letter dated Mar. 1, 1949, report of a Survey party's first ten days at Barter Island, opening camp there and establishing one on Tigvariak Island. Notes effect of low temperature and wind on transport vehicles (three tractors, five weasels, sleds) and men on the trip to Tigvariak. **Copy seen:** DLC.

**21597. EARLE, ROBERT A.** Triangulation along arctic north coast. (U. S. Coast and Geodetic Survey. Journal, Dec. 1951. no. 4, p. 149)

"Triangulation procedures used in reconnaissance are described. The stations were marked by steaming steel pipes into frozen ground. Instrument tripods were frozen into the tundra by pouring water around the tripod legs and packing snow closely about them to hasten freezing. Distances were measured and differences in elevations between station and reference marks were determined to

study the movement of these marks on the permafrost."—SIPRE.

**Copy seen:** DCL.

**21598. EAST, BEN.** Waveys over the Bay. (Beaver, Sept. 1951. Outfit 282, no. 2, p. 10-13, illus.)

Migration of geese over James Bay region with photographic illus. of flight pattern and notes on hunting experiences of local Cree Indians and white sportsmen.

**Copy seen:** DSI-M.

**21599. EBERHART, V. A.** The fish pirates. (Alaska sportsman, May 1951. v. 17, no. 5, p. 6-11, 44, illus.)

Describes the open, though illegal practice in southeastern Alaskan waters, of robbing fish traps; makes a plea for restraint, and designates this piracy as the first step toward greater disregard of fishery conservation.

**Copy seen:** DI.

**21600. EBNER, R.** Zur näheren Kenntnis einer boreoalpiner Orthopteren-Art (*Acropedellus variegatus* F. W.) (Vienna. Naturhistorisches Museum. Annalen, 1951. Bd. 58, p. 108-117, text map) **Title tr.:** A contribution to further knowledge of a boreo-alpine Orthoptera species (*Acropedellus variegatus* F. W.)

Contains systematic nomenclatural and ecological notes on *Acropedellus variegatus*, an orthopteran having a wide distribution in northern Finland, Yakutia, Kamchatka province, Kamchatka Peninsula and Alaska; bibliography (50 items).

**Copy seen:** MH-Z.

**21601. ECHELBERGER, EVAN E.** Waste disposal at 55° below. (Alaska's health, Mar. 1947. v. 5, no. 3, p. [6])

Discussion of disposal in the absence of a sewer system. **Copy seen:** DLC.

**21602. ECK, HEINRICH.** Die Verkehrsererschliessung der russischen Arktis. (Zeitschrift für Geopolitik, Feb. 1935. Jahrg. 12, p. 83-88) **Title tr.:** Opening of transportation in the Russian Arctic.

On the development and significance of aeronautics in programs for communication, transportation, exploration and colonization in the Russian Arctic.

**Copy seen:** DLC.

**21603. ECKENFELDER, G. V., and B. E. RUSSELL.** Snare River power project. (Engineering journal, Mar. 1950. v. 33, p. 165-71, illus., sketch map)

Description of the construction of a hydro-electric plant north of Great Slave Lake at 63°30' N. 116° W. in 1946-48;

with notes on development of mining and need for power, the location, water supply, and (in some detail) various features of the project, including an earth fill dam constructed under permafrost conditions, transportation problems and costs, equipment and, personnel. **Copy seen:** DGS.

**21604. ÉDEL'SHTEĬN, IĀKOV SAMUILOVICH.** Osnovy geomorfologii, kratkii kurs. Izd. vtoroe ispravlennoe i dopolnennoe. "Dopushcheno Ministerstvom vysshego obrazovaniia SSSR v kachestve uchebnogo posobiia dlia geologo-razvedochnykh institutov i geologicheskikh spetsial'nostei VUZov." Moskva-Leningrad Gosudarstvennoe izd-vo geologicheskoi literatury ministerstva geologii SSSR, 1947. 398 p., illus., maps.

**Title tr.:** Principles of geomorphology, short course. Second edition corrected and enlarged. "Authorized by the Board of Higher Education of U.S.S.R. as a textbook for the geological research institutions and geology departments of universities."

Contains chapters on: the scope of geomorphology and its methods of description and analysis; the development of geomorphology as a science; main information on the structure and composition of the earth; general morphology of the earth; valleys; formation and development of slopes; terraces of river valleys; plains; microrelief; hills and hilly relief; mountains and mountain areas; hollow forms of relief; karst forms and landscapes; forms of seashores; islands; the influence of geographic zonality upon the development of relief. Numerous references to arctic regions and conditions are scattered throughout the text. Glacier formations are dealt with in separate sections (p. 184-85, 250-56). Bibliography (over 60 items).

**Copy seen:** DLC.

**21605. ÉDEL'SHTEĬN, IĀKOV SAMUILOVICH.** Skhema tektonicheskogo deleniia Sibiri i DVK. (Akademiia nauk SSSR. Izvestiia. Seria geologicheskai, 1944, no. 6, p. 14-33) **Title tr.:** Scheme of the tectonic division of Siberia and the Far East region.

"In Siberia and the Far East region, the author distinguishes three groups of geo-tectonic construction differing in their evolution and structure: (1) the Triarctic, (2) the Asiatic and (3) the Pacific. The components and history of these are sketched and the metallogeny

peculiar to each."—Geological Society of America, *Bibliography and index of geology*, 1945-47, pub. 1947, v. 11, p. 92. Summary in English. **Copied seen:** MH.

**EDHOLM, O. G.**, see Barcroft, H., & O. G. Edholm. Effect temperature on blood flow and deep temperature in human forearm. 1943. No. 20466.

**21606. EDWARDS, FREDERICK WALLACE, 1888-1940.** Chironomidae (Diptera) collected by Prof. Aug. Thienemann in Swedish Lapland. (Annals and magazine of natural history, 1937. Ser. 10, v. 20, p. 140-48, illus.)

Contains diagnoses of *Abiskomyia virgo* n. gen. & sp., *Orthocladus* (s. str.) *abiskoensis*, *Smittia* (*Epoicocladus*) *ginocera* and *Tanytarsus* (*Phaenopelma*) *brevicosta* n. spp., also critical notes on four other midges, all collected in the Abisko region of Swedish Lapland, by Prof. A. Thienemann and determined by the author.

**Copied seen:** MH-Z.

**21607. EDWARDS, FREDERICK WALLACE, 1888-1940.** A note on *Telmatogeton* Schin. and related genera (Diptera, Chironomidae). (Konowia, 1928. Bd. 7, heft 3, p. 234-37)

Contains a discussion of relationship between dipterous genus *Telmatogeton* and three other genera of subfam. Clunioninae, of marine midges, including *Paraclunio alaskensis* breeding in the sea.

**Copied seen:** MH-Z.

**21608. EERIKÄINEN, M.** Rautatiet-vai maantiet ja lauttausväylät? (Teknillinen aikakauslehti, 1921. v. 19, no. 2, p. 121-24) **Title tr.:** Railroads or roads and waterways?

Contains data on relative costs and discussion of respective advantages of these alternative means of transportation in areas north of the Arctic Circle in Finland.

**Copied seen:** DLC.

**21609. EFIMOV, A. I.** Īakutskii artezianskii bassejn podmerzlotnykh vod. (Akademiā nauk SSSR. Izvestiā. Seriā geologicheskaiā, 1945, no. 4, p. 128-40, illus.) **Title tr.:** The Yakutian artesian basin of underground waters.

"Artesian ground waters occur in lower Jurassic sandstones and conglomerates below the permafrost zone in the central Yakutsk region U. S. S. R."—Geological Society of America, *Bibliography and index of geology*, 1949, pub. 1950, v. 14, p. 75. Summary in English.

**Copied seen:** MH.

**21610. EFIMOV, A. I., and others.** Podmerzlotnye vody rafona Īakutsk. (Akademiā nauk SSSR. Referaty nauchno-issledovatel'skikh rabot za 1944 g. pub. Moscow, 1945. Otdel. geologo-geograficheskikh nauk, p. 130) **Other authors:** P. L. Mel'nikov and P. A. Solov'ev. **Title tr.:** Water under the permafrost layer in the Yakutsk region.

"Review of special investigations in the Yakutsk region during 1938-1944. The measurement of the earth's temperature at depths to 500 m. is given. In this area the under layer of permafrost occurred at a depth of 204 m."—*Meteorological abstracts and bibliography*, Mar. 1951. v. 2, no. 3, p. 226. **Copied seen:** DLC.

**21611. EFIMOV, ALEKSEĬ VLADIMIROVICH, 1896-** Iz istorii velikikh russkikh geograficheskikh otkrytii v Severnom Ledovitom i Tikhom okeanakh; XVII-pervaia polovina XVIII v. Moskva, Gos. izd. geogr. liter., 1950. 317 p., illus., ports., 61 maps. **Title tr.:** From the history of the great Russian geographic discoveries in Arctic and Pacific Oceans in the 17th and first half of the 18th century.

An historical study of Russian explorations of the northern coast of European and Asiatic Russia, Kamchatka and Alaska (with Aleutian Islands), with biographical and bibliographical data (in footnotes). Chap. 3 (p. 49-71). The great geographic discovery of Semen Dezhnev. Chap. 4 (p. 72-101). Achievements of Russian land and sea explorers. Chap. 5 (p. 102-128). Voyages of Russian seamen in the beginning of the 18th century and the first maps of the Chukotsk Peninsula, Kamchatka and parts of North America. Chap. 8 (p. 145-52). The Great Kamchatka project and the travels of Evreinov. Chap. 9 (p. 153-62). Expeditions of Nagibin and Mel'nikov [Chukotsk Peninsula]. Chap. 10 (p. 163-207). Expeditions of Fedorov, Gvozdev and Bering, Chirikov [Bering Strait, Aleutian Islands, Alaska]. Conclusion, p. 225-36. **Appendices:** Documents, p. 237-92; Index of geographic names, p. 293-301; index of personal names, p. 302-314; index of maps and illustrations, p. 315-17.

**Copied seen:** MH.

**21612. EFIMOV, ALEKSEĬ VLADIMIROVICH, 1896-** K voprosy o povtorenii pokhoda po trasie istoricheskogo

plavanifa S. Dezhneva 1648 g. (Voprosy geografi, 1952. Sbornik 24, p. 424-30).  
**Title tr.:** On the repetition of the voyage along the route of S. Dezhnev's historic navigation in 1648.

**Contains** notes and extracts from sources, indicating that in the years following Dezhnev's expedition, voyages from the mouth of the Lena to that of the Indigirka and Kolyma were quite common; information on such trips in the 1650's and 1660's is quoted. Author believes that despite the absence of contemporary accounts, circumnavigations of the Chukotsk Peninsula by Russians took place long before the Bering-Chirikov Expedition (1730). Bibliographical footnotes. **Copy seen:** DLC.

**21613. EFIMOV, ALEKSEĬ VLADIMIROVICH, 1896-** . Velikie russkie geograficheskie otkrytiia (v XVII i pervoi polovine XVIII v.) stenogramma publichnoi lektsii prochitannoi v tsentral'nom lektorii obshchestva v Moskve. Moskva, Izd-vo "Pravda", 1949. 23 p. (Vsesoiuznoe obshchestvo po rasprostraneniui politicheskikh i nauchnykh znaniu)  
**Title tr.:** Great Russian geographic discoveries (in 17th and first half of the 18th centuries); stenograph of public lecture delivered in central lecture hall of the society [for dissemination of political and scientific information] in Moscow.

Author gives a brief review of the knowledge of the North before the 17th century; a condensed account of Russian arctic discoveries of the 17th and first half of 18th centuries, their significance and background. **Copy seen:** DLC.

**EFIMOV, ALEKSEĬ VLADIMIROVICH, 1896-** , see also U.S.S.R. Tsentral'nyi gosudarstvennyi arkhiv drevnikh aktov. Otkrytiia, XVII v. 1951. No. 26883.

**21614. EFREMOV, IVAN ANTONOVICH, 1907-** . First representative of Siberian early Tetrapoda. (Akademika nauk SSSR. Comptes rendus (Doklady), 1939. nouv. ser., v. 23, no. 1, p. 106-110, illus.)

Description of a single specimen of a Permian stegocephalian larva obtained from the Lower Tunguska River in 1938.

**Copy seen:** DLC.

**EFREMOV, IVAN ANTONOVICH, 1907-** , see also Sushkin, P. P. Notes on *Dinosaurus Amalitzki*. 1936. No. 26542.

**21615. EGOROV, G. N.** On the regularity of distribution of coal ash components throughout the area of the Pechora Basin, and the degree of weathering of coal from data of technical analysis and analysis of coal ash. (Akademika nauk SSSR. Comptes rendus (Doklady), 1945. nouv. ser., v. 47, no. 7, p. 489-93, illus., tables)

Extensive chemical analyses demonstrating that the composition of the coal ash depends on the character and composition of the enclosing rocks.

**Copy seen:** DLC.

**21616. EGOROVA, A. A.** Thermophile bacteria in Arctic. (Akademika nauk SSSR. Comptes rendus (Doklady), 1938. nouv. ser., v. 19, no. 8, p. 649-50, tables)

Thermophile bacteria found in arctic soils and sea sediments taken by the author during the *Sedov* Expedition in Kara Sea, 1934. All were found to be bacilli, belonging to two different species.

**Copy seen:** DLC.

**21617. EGOROVA-FURSENKO, E. N.** Kontaktovyie rogoviki i ksenolity bokovykh porod v nefelinovykh sienitakh Khibinskogo massiva. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1939. Ser. II, ch. 68, no. 2, p. 287-316, illus., text map) **Title tr.:** Contact hornstones and xenoliths of the lateral rocks in the nepheline syenites of the Khibiny massif.

**Contains** the results of the study of contact metamorphosed rocks and xenoliths in the western and northeastern contact zones of the Khibiny nepheline-syenite plutone (see sketch map on p. 287), with data on the geological structure of these zones and petrographic characteristics and contact alterations of the including rocks. Summary in English.

**Copy seen:** MH-Z.

**21618. EICHELBAUM, F.** Liste der von mir im Jahre 1910 in Schweden aufgefundenen Staphyliniden. (Entomologisk tidskrift, 1910. Årg. 31, häft. 2-3, p. 197)  
**Title tr.:** List of Staphylinidae found in Sweden in 1910.

**Contains** a list of 34 Staphylinidae from various regions of Sweden, including seven species native to Abiskojoek, Norrbotten; five species are new to the fauna of Sweden. **Copy seen:** DLC; MH-Z.

**21619. EIDES (J. W.) FORLAG, Bergen.** Svalbard, a Norwegian outpost. Bergen

[1950] 172 p. (chiefly illus.), 2 maps, maps on lining papers.

Preface and text by Anatol Heintz, translated into English by Leif J. Wilhelmssen, accompany 204 photographic illustrations of various aspects of life on West Spitsbergen: the people, mines, settlements, fauna, flora, fiords, mountains, streams, glaciers, landscapes, the activities carried on by the inhabitants and by the Norwegian Government. Reviewed in *Arctic*, Mar. 1952. v. 5, no. 1, p. 54.

**Copy seen:** DLC.

**EINOR, O. L.**, see Likharev, B. K., & O. L. Einor. On age U. Paleozoic deposits. 1941. No. 23848.

**21620. EISBERG, HARRY BELLEVILLE, 1915-** . Some of the problems facing a naval medical officer in the Arctic. (Military surgeon, 1948. v. 102, p. 278-83)

*Contains* brief notes on the area, climate, flora and fauna, life ashore and aboard ship; special requirements for war in the Arctic as to clothing, housing, water supply and waste-disposal; first-aid under arctic conditions; snow-blindness, freezing, immersion, etc.; protection of medicines against frost.

**Copy seen:** DSG.

**21621. EITEMAN, WILFORD JOHN, 1902-** , and A. B. SMUTS. Alaska, land of opportunity—limited. (Economic geography, Jan. 1951. v. 27, p. 33-42, illus., sketch map)

*Contains* sober evaluation of economic limitations to a rapid expansion of the economy and population of Alaska; brief historical notes on the four gold rushes; and a contemporary view of agriculture, fisheries, gold and fur industries, with comment on problems of developing new manufacturing and the effect of improved transportation.

**Copy seen:** DGS; DLC.

**21622. ĖTINGEN, GRIGORIĬ ROMANOVICH.** Lesovodstvo. Izd. chetvertoe pererabotannoe i dopolnennoe. Dopushcheno Ministerstvom vysshego obrazovaniia SSSR v kachestve uchebnika dlia agronomicheskikh institutov i fakul'tetov. Moskva, Gosudarstvennoe izd-vo sel'skokhoziaistvennoi literatury, 1949. 367 p., illus., fold. map. **Title tr.:** Silviculture. Fourth edition, revised and enlarged. Authorized by Board of Higher Education of U.S.S.R. as a textbook for the agronomical institutes and faculties.

*Contains* (in this comprehensive textbook of forestry) numerous references to extreme wintry conditions: on snow cover (p. 83, 191), air temperature (p. 104, 195), and others. The chapters on the distribution of forests (p. 118-21) and on the coniferous trees (p. 121-26) deal with several species growing in the arctic area. Bibliography (over 100 items).

**Copy seen:** DLC.

**21623. ĖTINGEN, GRIGORIĬ ROMANOVICH.** Snezhnyi pokrov v lesu i pole. (Lesnoe khoziaistvo, Feb. 1939, no. 2, p. 69-78, diagrs., tables) **Title tr.:** Snow cover in woods and fields.

*Contains* a study of the differences between wooded areas and open fields in the amount of accumulated snow (water), rate of thawing and duration of snow cover; data on height of snow cover in relation to the kind of trees and in comparison with open fields; analogous comparisons with respect to the reserve of "snow-water" (amount of water contained in a certain layer of snow); rate of snow-melting in different kinds of woods, etc. Bibliographical footnotes.

**Copy seen:** DLC.

**EKBLAW, WALTER ELMER, 1882-1949**, see Sanders, I. T. Societies around the world. 1952. No. 25824.

**21624. EKHOLM, SVANTE.** Migrations of the painted lady, *Vanessa cardui* L. (Lep. Nymphalidae) in 1948 in Finland. (Notulae entomologicae, 1951. v. 31, no. 1-2, p. 2-15, diagrs. text maps)

*Contains* the results of a study of the migration of a four-footed butterfly, *Vanessa cardui* (also called "painted lady"), with data on the finds (including Lapland region) in the summer of 1948, time of arrival, factors which have possibly affected the migration (diagr. 1-2), recorded migrations, appearance of butterflies, egg-laying in 1948, caterpillars and their host plants and chances of hibernating in Finland.

**Copy seen:** DA; MH-Z.

**21625. EKIMOV, P. P.** K voprosu o promyke skvazhin v merzlykh gruntakh Arktiki. (Problemy arktiki, 1937. no. 7-8, p. 125-26) **Title tr.:** Flushing drill holes in arctic permafrost.

"Difficulties encountered due to freezing of flushing solutions were solved by using a brine with a salt concentration between 12 and 17 per cent. Experi-

ments using the salt solution indicated that it was necessary to know the average temperature of the drill hole, and that the circulating system should be insulated at the surface during winter and summer to preserve the permafrost. It is recommended that periodic temperature measurements at various depths be made to select an adequate salt concentration for flushing."—SIPRE.

**Copy seen:** DLC.

**21626. EKMAN, SVEN.** Larver an lap-ska igelkottspinnaren *Hyphoraia lapponica*, krypande på senvinterns snöfält. (Entomologisk tidskrift, 1946. Årg. 67, häft. 4, p. 210-12) **Title tr.:** Larvae of a Lapp butterfly, *Hyphoraia lapponica*, creeping on snow fields left from the winter season.

Contains a report of the author's observation in April and May, 1945, of larvae of a northern butterfly, *Hyphoraia lapponica* creeping on late snow fields in Lycksele, Pite and Torne Lappmark.

**Copy seen:** MH-Z.

**21627. EKMAN, SVEN PETRUS.** 1876-. Beiträge zur Kenntnis der schwedischen Süßwasser - Ostracoden. (Zoologiska bidrag från Uppsala, 1914, bd. 3, p. 1-36, illus.) **Title tr.:** Contributions to the knowledge of Swedish fresh-water Ostracoda.

Contains a systematic list of 32 species of fresh-water ostracods (four forms described as new) of Sweden, with synonyms, descriptive notes, dimensions and data on distribution. Includes at least seven species occurring in Swedish Lapland.

**Copy seen:** MH-Z.

**21628. ELBO, J. G.** Lapp reindeer movements across the frontiers of northern Scandinavia. (Polar record, Jan. 1952. v. 6, no. 43, p. 348-58, plate, map)

Contains an historical review and analysis (particularly in relation to the reindeer economy) of the treaties between Sweden, Norway, Finland and Russia since the 18th century in regulation of the trans-frontier movement of reindeer-herding Lapps. A treaty of 1751 fixing the boundary between the United Kingdom of Denmark-Norway and the Kingdom of Sweden (then including Finland) contained a codicil confirming established custom in the Lapps' migrations. International changes, population shifts, etc., entailed successive discussions and growing friction. A new agreement was made in 1883 (mainly fixing the months when

Lapps could cross the frontier), and modified in 1905, 1909. On the basis of biological and other data gathered by two Reindeer Pasture Commissions (1909, 1913, Väinö Tanner, chairman) a new treaty was drawn and signed in 1919. This and its 1949 adjustment are discussed. Tribute is paid to the work of the Commissions whose reports (*Renbetes kommissionens af år 1909 handlingar*, and . . . 1913 . . . , in 27 vols.) are basic works on reindeer ecology and economy. Bibliography (36 items).

**Copy seen:** DLC.

**21629. ELBO, J. G.** The war in Svalbard, 1939-45. (Polar record, July 1952. v. 6, no. 44, p. 484-95)

Contains detailed account of Allied activities in this area year by year in the period 1939-45; German operations are dealt in detail only when they directly affect the narrative. The continued operation of the coal mines, then destruction of installations on Bear Island in Aug. 1941, evacuation of the Norwegian population thence and from West Spitsbergen; "Operation Frithamn" and subsequent efforts to forestall and fight off German attempts to use Spitsbergen; the activities of the Norwegian garrison in defense of the island, 1942-45; the fate of the coal mines, their reconstruction, etc. are set forth. *Appendix* notes briefly the seven German meteorological operations in Svalbard during 1941-45. Bibliography (19 items).

**Copy seen:** CaMAI; DLC.

**21630. ELENKIN, ALEKSANDR ALEKSANDROVICH, 1873-1942, and L. A. OL'.** Bibliografiā al'gologicheskikh trudov v predelakh SSSR s 1931 po 1935 g. vkhlichitel'no. (Akademiiā nauk SSSR. Botanicheskii institut. Trudy. Seriiā 2. Sporovye rasteniā, 1950. vyp. 5, p. 95-117) **Title tr.:** Bibliography of algological works published in the U.S.S.R. from 1931 to 1935 inclusive.

Contains a continuation of the authors' *Bibliografiā* (1900-25) 1926, and (1926-30) 1935 (*Arctic Bibliography*, No. 4516-4517). It lists separately papers in Russian (nos. 1907-2291) and those in foreign languages (2292-2330), including some works concerning the northern regions of the U.S.S.R.

**Copy seen:** MH-A.

**21631. ELENKIN, ALEKSANDR ALEKSANDROVICH, 1873-1942, and L. A. OL'.** Dopolnitel'nye dannye po

bibliografii algologicheskikh trudov v predelakh SSSR. Dopolnenie II. (Akademii nauk SSSR. Botanicheskii institut. Trudy. Seriya 2. Sporovye rasteniia, 1950. vyp. 6, p. 5-22) **Title tr.:** Additional data to the bibliography of algological works published in the U.S.S.R. Supplement II.

This useful bibliography (with a somewhat misleading title) carries on (as sup. [I] the record of algological papers in N. M. Gaidukov, *Literaturnye istochniki* 1901, and (as sup. II) the authors' *Bibliografiia* (1900-1925) 1926, and *Bibliografiia* (1926-30) 1935 (see *Arctic Bibliography* No. 5465, 4516-4517). It includes some works dealing with northern regions of the U.S.S.R.

**Copy seen:** MH-A.

**21632. ELENKIN, ALEKSANDR ALEKSANDROVICH, 1873-1942.** Flora sukhoputnykh rastenii v okrestnostakh Murmanskoi biologicheskoi stantsii. (Leningradskoe obshchestvo estestvoispytatelei. Trudy, 1906-1908. t. 37. vyp. 4, p. 112-26) **Title tr.:** The flora of terrestrial plants in the vicinity of the Murman Biological Station.

A list of lichens and their distribution is given.

**Copy seen:** DSI-M.

**21633. ELENKIN, ALEKSANDR ALEKSANDROVICH, 1873-1942.** Raspredelenie i spisok morskikh vodoroslei v okrestnostakh Murmanskoi biologicheskoi stantsii. (Leningradskoe obshchestvo estestvoispytatelei. Trudy, 1906-1908. t. 37. vyp. 4, p. 167-80) **Title tr.:** Distribution and list of marsh plants from the vicinity of the Murman Biological Station.

**Copy seen:** DLC.

**21634. ELENKIN, ALEKSANDR ALEKSANDROVICH, 1873-1942, and others.** Sinezelenye vodorosli SSSR. Monografiia presnovodnykh i nazemnykh Cyanophyceae, obnaruzhennykh v predelakh SSSR. Spetsial'nai (sistematicheskai) chast'. Vyp. I: 1. Chroococaceae Geitl.; 2. Chamaesiphonaceae Geitl.; 3. Hormogoneae (Geitl.) Elenk.; Vyp. II: 3. Hormogoneae (Geitl.) Elenk. (okonechanie). Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1938-1949. pt. 2, fasc. I-II: I (1938): 1-984 p., illus. (290 figs.); II (1949): 986-1908. front. (port.), illus., (fig. 291-566). (Akademii nauk SSSR. Botanicheskii institut) **Title tr.:** Blue-green algae of the U.S.S.R. A

monograph of fresh-water and terrestrial Cyanophyceae, found in U.S.S.R. Special (systematic) part.

This is the second (taxonomic) part of a work, a copy of whose first (general) part published in 1936 (679 p.) has not been located for this Bibliography. This systematic part contains in fasc. I (1938): a general sketch of Cyanophyceae, tables for the determination of orders, groups, families and species (ord. Chroococaceae, Chamaesiphonaceae and Hormogoneae (in part) and descriptions of all Russian species with the following data: name, synonymy, Russian diagnosis, critical comments, table for the determination of forms (if more than 2 or 3), habitat, detailed distribution in the U.S.S.R., bibliographical data and distribution outside of the U.S.S.R. Fasc. II (1949) containing a continuation of the treatment of Hormogoneae, was prepared in 1939 but because of war published ten years later in 1949, after the death of the senior author (in 1942). It includes also a supplementary bibliography for the years 1931-35 (122 items) p. 1853-59; alphabetic index of Latin names for both fascicles, p. 1860-96. This work includes many species, native to northern regions of the U.S.S.R. The following families were prepared by junior authors: Gloeocarpaceae (p. 165-26) by M. M. Gollerbach; Scytonemataceae (p. 887-974) by E. K. Kosinskai; and Rivulariaceae (p. 997-1184) by V. I. Polianskii. Data on marine Cyanophyceae was published in E. K. Kosinskai *Opredelitel' morskikh sinezelenykh vodoroslei*, 1948, q. v., as a supplement to this work.

**Copy seen:** MH-F.

**21635. ELENKIN, ALEKSANDR ALEKSANDROVICH, 1873-1942.** Sistemicheskii spisok presnovodnykh zelenykh vodoroslei, obnaruzhennykh v predelakh SSSR do 1938 g., s kriticheskimi primechaniiami, III. Ulotrichales. (Akademii nauk SSSR. Botanicheskii institut. Trudy, seriya 2. Sporovye rasteniia, 1950. vyp. 6, p. 23-65) **Title tr.:** A systematic list of fresh-water algae encountered in the U.S.S.R. until 1938, with critical notes, III. Ulotrichales.

Contains a systematic list of 40 fresh-water green algae of the fam. Ulotrichaceae native to the U.S.S.R., with synonymy, literature citations, icons, excised, descriptions, critical notes, geographic distribution in the U.S.S.R. and outside of it, and bibliographical data

for each species; includes many species native to northern regions of the U.S.S.R.

**Copy seen:** MH-A.

**ELENKIN, ALEKSANDR ALEKSANDROVICH, 1873-1942**, see also Savich, V. P., & A. A. Elenkin. *Vvedenie k flore Iishalnikov*. 1950. No. 25895.

**ELFORD, C. ROBERT**, see Riehl, H., & C. R. Elford. Ocean analysis from coastal reports. 1943. No. 25526.

**ELFVING, ARVO**, see Kajava, Y. Beiträge Rasseneigenschaften d. Lappen. 1925. No. 23072.

**21636. ELFVING, RABBE**. Die Gattung *Prosopis* Fabr. (Hym., Apidae) in Finnland. (Notulae entomologicae, 1951. v. 31, no. 3-4, p. 67-92, plates 1-4, text maps 1-10) **Title tr.:** Genus *Prosopis* Fabr. (Hym., Apidae) in Finland.

Contains a study of apian genus *Prosopis*, with a table for determination of the species, descriptions of 13 species (male and female) and lists of their localities; includes *P. communis* and *P. confusa* native to northern Ostrobothnia and *P. annulata* from Finnish Lapland.

**Copy seen:** DLC; MH-Z.

**21637. ELIADE, MIRCEA, 1907-**. Einführende Betrachtungen über den Schamanismus. (Paideuma; Mitteilungen zur Kulturkunde, Juli 1951. Bd. 5, p. 87-97) Translation from French. **Title tr.:** Introductory observations on shamanism.

Bearing mostly on shamanism in arctic, Siberian and Central Asiatic regions, this paper coordinates data on many cultures to define the term as a complex of ecstatic practices based in ancient religious concepts and distinguished from such concepts only in degree or intensity. The shaman seeks to give concrete form to the cosmic-theologic scheme which remains symbolic for the whole community. Shamanism represents the most plausible mystic expression of the primitive religious world. Bibliography (20 items).

**Copy seen:** DSI-M.

**21638. ELIADE, MIRCEA, 1907-**. Shamanism. (In: Fernald, V. T. A., Forgotten religions. New York, Philosophical Library, 1950. p. 299-308)

Author characterizes shamanism by its "magico-religious technique... the ecstatic trip to Heaven, to the Lower World, or to the depths of the ocean," quoting descriptions of the shamanistic perform-

ance among several northern peoples of Eurasia and America; and comments on the symbolism common to northern and Indonesian shamanism. Noting briefly its psychopathological origin, author emphasizes that it is the "images and symbols which express and give signification" to the shamanistic trance. Bibliography (14 items).

**Copy seen:** DLC.

**21639. ELIOT, JOHAN WIJNBADH, 1921-**, and others. Cross-acclimatization to heat and cold. (American journal of physiology, Dec. 1948. v. 155, p. 435) Other authors: H. J. Stein and R. A. Bader.

Abstract of paper presented to the American Physiological Society, first fall meeting Sept. 1948: Findings from laboratory experiments on three healthy men, included more rapid and effective vasoconstriction with successive cold exposures, continuous diuresis and increased chloride loss during period of cold exposure, no significant difference in basal metabolic rate between hot and cold periods, no consistent changes revealed in blood, plasma and "available fluid" volume during hot or cold periods.

**Copy seen:** DLC.

**ELIOT, JOHAN WIJNBADH, 1921-**, see also Bader, R. A., & others. Hormonal alterations heat & cold stress. 1948. No. 20395.

**ELIOT, JOHAN WIJNBADH, 1921-**, see also Bader, R. A., & others. Hormonal & renal mechanisms of cold diuresis. 1950. No. 20396.

**ELIOT, JOHAN WIJNBADH, 1921-**, see also Bader, R. A., & others. Hormonal & renal mechanisms of cold diuresis. 1953. No. 20397.

**ELIOT, JOHAN WIJNBADH, 1921-**, see also Bader, R. A., & others. Renal & hormonal mechanisms of cold diuresis. 1949. No. 20398.

**ELIOT, JOHAN WIJNBADH, 1921-**, see also Stein, H. J., & others. Hormonal alterations in men heat & cold stress. 1949. No. 26415.

**ELIOT, JOHAN WIJNBADH, 1921-**, see Stein, H. J., & others. Physiological reactions to cold. 1949. No. 26416.

**21640. ELISEEV, NIKOLAI ALEKSANDROVICH, and E. A. SVERZHINSKAIÄ**. Chemical composition of Lovozero eudi-

alytites. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1941. nouv. ser., v. 31, no. 3, p. 244-45, tables)

**Copy seen:** DLC.

**21641. ELISEEV, NIKOLAI ALEKSANDROVICH.** Devonskie effuzivny Lovozerskikh tundur. (Vserossiiskoe mineralogicheskoe obshchestvo. Zapiski, 1946. Seria 2, chast' 75, p. 113-34, illus.) **Title tr.:** Devonian effusive rocks of the Lovozero Tundras.

A detailed petrographic study of the rocks reveals that they are all essentially alkaline and represent series whose members for the most part exhibit gradual transitions in composition.—Geological Society of America. *Bibliography and index of geology.* Summary in English.

**Copy seen:** DLC.

**21642. ELISEEV, NIKOLAI ALEKSANDROVICH.** Evdialitny luyavrut. (Vserossiiskoe mineralogicheskoe obshchestvo. Zapiski, 1940. seria 2, chast' 69, p. 494-518, illus., tables) **Title tr.:** The eudialytites of Luyavrut.

Statement of modes of occurrence of the mineral eudialyte (1) as accumulations in pegmatites, (2) along the contact between Lovozero eruptive masses and inclusive rocks, (3) in melanocratic and mesocratic eudialyte luyavrites, and (4) in rocks consisting chiefly of eudialyte. Includes description of the deposits in the Luyavrut mountains of Kola Peninsula and of the mineralogical and chemical composition of the eudialytites; also discussion (in some detail) of their origin; bibliography (20 items). Summary in English.

**Copy seen:** DGS.

**21643. ELISEEV, NIKOLAI ALEKSANDROVICH, and others.** Geologicheskoe stroenie i petrograficheskii sostav Lovozerskikh tundur. (Akademiia nauk SSSR. Izvestiia. Seria geologicheskai, 1938, no. 2, p. 235-68, illus.) **Other authors:** I. V. Zelenkov, N. K. Nefedov, and V. A. Unkskov. **Title tr.:** Geological structure and petrographic composition of the Lovozero tundra.

Contains brief information on the hydrography, geomorphology and history of the geological investigation of Luyavrut mountain-tundra region, (67°41'-67°55' N. 34°21'-35°45' E.) of Kola Peninsula; geological and petrographical characteristics of inclosing series; geological structure and petrographic composition of the Lovozerskiy pluton; geological

conclusions and comparison of this region with Khibiny tundras, Kola Peninsula; bibliography (35 items). Summary in English, p. 264-68.

**Copy seen:** DLC; MH.

**21644. ELISEEV, NIKOLAI ALEKSANDROVICH.** Khibinskie apatitovye mestorozhdeniia. (Vserossiiskoe mineralogicheskoe obshchestvo. Zapiski, 1937. Seria 2, chast' 66, p. 491-516, fold. map, diagrs.) **Title tr.:** Khibine apatite deposits.

Description of the iolite urtite rocks of the Khibina massif, central Kola Peninsula, and (in detail) the mode of occurrence of the apatite deposit of Yukspor, a typical example; with description of the ore genesis. Bibliography (43 items). Summary in English.

**Copy seen:** DGS.

**21645. ELISEEV, NIKOLAI ALEKSANDROVICH.** Struktury rudnykh polei v pervichno-rassloennykh plutonakh Kolskogo poluoostrova. (Akademiia nauk SSSR. Izvestiia. Geologicheskai seria, 1937, no. 6, p. 1085-1104, illus.) **Title tr.:** The structure of the ore fields in the primary bounded plutons.

This study of ore deposits was carried out in Gremfakha-Vyrmes district, Lovozero tundra and near Afrikanda Station on the Murmansk Railway, Kola Peninsula. Summary in English.

**Copy seen:** MH-Z.

**ELISEEV, NIKOLAI ALEKSANDROVICH, see also Polkanov, A. A., & N. A. Eliseev.** Struktura i geol. istoriia plutona. 1940. No. 25190.

**21646. ELKINS, WINSTON A.** Pressing problems in administration of wildlife resources in Alaska. (In: Alaskan Science Conference . . . 1950. Selected papers, 1952. p. 268-81, tables)

Contains remarks on limitations imposed by Alaska's soil and climate on wildlife resources; followed by an analysis and discussion of the low density of game and fish (except anadromous fish) per acre, caribou migration, distribution of sea otter, also migration and migration-routes of water fowl, the relation of the population (both white and native) to the wildlife resources. Bibliography (7 items)

**Copy seen:** DAI; DLC.

**ELKINS, WINSTON A., see also Scott, R. F., & others.** Status of the dall sheep & caribou in Alaska. 1950. No. 25998.

ELLING, CARL H., 1917- , see Kolloen L. N., & C. H. Elling. Outlook for Alaska herring fishery. 1948. No. 23368.

21647. ELLINGSEN, EDV. Bidrag til kundskaben om de norsk Myriopoders udbredelse. Christiania, A. W. Brøgger, 1892. 12 p. (Norske videnskaps-akademi, Oslo. Forhandling, 1891, no. 10) **Title tr.:** Contribution to the knowledge on the distribution of Norwegian Myriapoda.

Contains an account of 36 species of myriapods, 11 of them new for Norway, with notes on the habitat of each and the localities where they were found by the author and others; earlier literature, etc. Several species were found in the arctic region, viz *Lithobius forficatus*, *L. curtipes* and *Geophilus proximus*.

**Copy seen:** DLC.

21648. ELLINGSEN, EDV. Mere om norske Myriopoder. Christiania, A. W. Brøgger, 1897. 12 p. (Norske videnskaps-akademi, Oslo. Forhandling, 1896, pub. 1897, no. 4) **Title tr.:** More on Norwegian Myriapoda.

Contains some additional data on the distribution in Norway of 36 species of Myriapoda recorded in the author's paper *Bidrag til kundskaben om de norske Myriopoders udbredelse* 1891, q. v., including *Lithobius forficatus*, *L. curtipes* and *Geophilus proximus*, native to Tromsø and Finnmark provinces; table of distribution on p. 11-12.

**Copy seen:** MH-Z.

21649. ELLIOTT, CHARLES. Arctic land of plenty. (American forests, July 1949. v. 55, no. 7, p. 14-15, 42-44, illus.)

Popular account of camping and hunting in the Alaska Range near the Talkeetna Mts. **Copy seen:** DA; DGS.

ELLIOTT, HENRY WOOD, 1846-1930, see U. S. Congress. House. Committee on Claims. Fur Seal investigations. Hearings on payment for services. 1916. No. 26904.

ELLIOTT, HENRY WOOD, 1846-1930, see also U. S. Congress. Senate. Committee on Commerce. Alaska fur seals. Hearings S. 3679. 1926 No. 26935.

ELLIOTT, HENRY WOOD, 1846-1930, see also U. S. Congress. Senate. Committee on Commerce. Fur seals. Hearings S. 3731. 1923. No. 26938.

21650. ELLIOTT, ROBERT PAUL, 1918- . Employment possibilities in the Alaskan fishing industry. Washington, 1948. 4 p. (U. S. Fish and Wildlife Service. Fishery leaflet 298) Mimeographed.

Contains notes on hiring, postwar job competition, and different fishing industries; pertinent facts on size of crew, wages, etc. Includes section on salmon canneries. **Copy seen:** DI.

ELLIS, F. A., see Hall, V. E., & F. A. Ellis. Mechanism magnesium hypothermia rabbit. 1950. No. 22380.

21651. ELLITSGAARD-RASMUSSEN, K. Preliminary report on the geological field work carried out by the Danish Peary Land Expedition in the year 1949-50. (Dansk geologisk forening. Meddelelser, 1950. Bd. 11, p. 589-95, sketch map)

Contains a brief résumé of the fold system on northern Peary Land, North Greenland, which appears to be affected by overthrusting from south to north. The nature and occurrence of doleritic intrusives in the southern part of the region are noted. Summary in Danish.

**Copy seen:** DGS; DLC.

21652. ELLITSGAARD-RASMUSSEN, K. A West Greenland globule dike. (Dansk geologisk forening. Meddelelser, 1951. Bd. 12, p. 83-101, illus. incl. sketch map)

Contains a description of the structure and petrology of a basalt dike intruded into a Precambrian gneiss complex of the Egedesminde district, which is most probably connected with the complex of plateau basalts of Eocene age. Bibliography (16 items). Summary in French.

**Copy seen:** DGS.

21653. ELLS, S. C. Canadian voyageurs. (Canadian geographical journal, Feb. 1951. v. 42, p. 80-89, illus., 2 maps)

From the history of the fur trade in Canada, the author briefly describes development of the companies, trade routes, trading posts, transportation problems, boat crews, types of craft used, transportation rates, fur brigades, and tracking hazards; with a special note on the Methaye Portage in northern Alberta.

**Copy seen:** DGS; DLC.

21654. ELLSON, JOSEPH GILES, 1911- . Description of the exploratory

fishing vessel *John N. Cobb*. (Commercial fisheries review, Sept. 1950. v. 12, no. 9, p. 1-8, illus., fold. plan)

Detailed description with plans of the vessel commissioned Feb. 18, 1950, for Commercial Fisheries Branch of the U. S. Fish and Wildlife Service, for use in exploratory work of the Pacific Northwest and Alaska.

**Copy seen:** DI; DLC.

**21655. ELLSON, JOSEPH GILES, 1911-**, and others. Exploratory fishing expedition to the northern Bering Sea in June and July, 1949. Washington, 1950. 56 p. incl. 13 maps., illus., diagrs. (U. S. Fish and Wildlife Service. Fishery leaflet 369) *Other authors:* D. E. Powell and H. A. Hildebrand.

*Contains* (in pt. 1) description of the oceanographic and fishery research already done in Bering Sea, especially on water temperatures and currents. Pt. 2 gives results with discussion, of a general sampling by 51 otter trawl drags, of the bottom fish life between St. Matthew and St. Lawrence Islands, Nome - Norton Sound to Nunivak Island and southward to the Alaska Peninsula region. Water temperatures were taken with each fishing trial. Fish and king-crab were most abundant in warmer waters of 2°-4° C., while shrimp were found mostly in water of 0°-2° C. Several areas yielded heavy catches suggesting possibilities for commercial exploitation. Hydrographic and ecological factors, bottom configuration, etc., as well as weather conditions are also reported. Tabular abstract of data for each station is appended. Bibliography (12 items). This paper is summarized in *Polar record*, Jan. 1952, v. 6, no. 43, p. 370-71.

**Copy seen:** CaMAI; DI.

**21656. ELOFSON, OLOF.** Neuere Beobachtungen über die Verbreitung der Ostracoden an den skandinavischen Küsten. (Arkiv för zoologi, 1945, pub. 1944. Bd. 35 A, no. 2, p. 1-16, illus.) **Title tr.:** New observations on the distribution of Ostracoda on the Scandinavian coast.

*Contains* new data on the geographic distribution of 60 species of ostracods in Norwegian waters gathered since the publication of the author's work *Zur Kenntnis der marinen Ostracoden Schwedens*, 1941, q. v., including some new localities in the Tromsø region, northern Norway. **Copy seen:** DSI-M; MH-Z.

**21657. ELOFSON, OLOF.** Über *Paradozostoma rostratum* G. O. Sars. (Bergen, Norway. Museum. Aarbok; naturvidenskapelig raekke, 1939-40, pub. 1940, nr. 4, p. 1-8, illus.) **Title tr.:** On *Paradozostoma rostratum* G. O. Sars.

*Contains* an enlarged description of *Paradozostoma rostratum* (male and female), an ostracod first described by G. O. Sars in his *Overview of Norges marine Ostracoder*, 1865, q. v., from a defective specimen found in Finnmark waters. The author's specimens were collected in 1900 in Varanger Fiord.

**Copy seen:** MH-Z.

**21658. ELOFSON, OLOF.** Zur Kenntnis der marinen Ostracoden Schwedens mit besonderer Berücksichtigung des Skageraks. (Zoologiska bidrag från Uppsala, 1940-1941, pub. 1941. Bd. 19, p. 215-534, illus., 42 text maps) **Title tr.:** Contributions to the knowledge of marine Ostracoda of Sweden with special reference to Skagerak.

*Contains* a detailed study of marine ostracods of Swedish waters, chiefly from Skagerak (250 stations) but based partly on collections from Böckfjord (Finnmark, Norway) and Tromsø waters (see p. 222) made during 1932-40, with discussion of methods of catching, preparation and handling of material and notes on hydrography and bottom characteristics of Skagerak. In the special part are descriptions of 96 species (77 new to the fauna of Sweden) with synonymy, distribution in Skagerak, total distribution, including arctic regions, and hydrographic data, p. 231-357; study of reproduction and development, p. 357-406; ecological studies (influence of temperature, substrata, salt content, feeding) p. 406-469; zoogeographic studies p. 470-89; list of stations p. 490-97; distribution of species on various stations, p. 497-504; bibliography (about 250 items); index of the species, p. 515-17; sketch maps, p. 518-34. Special attention is given to geographic ostracoda distribution in all arctic regions; for additional data see the author's *Neuere Beobachtungen*, 1944.

**Copy seen:** DSI-M; MH-Z.

**EL'PIN, A. G.,** see No. 21724.

**21659. ELVEY, C. T., and DON WILLIAMS.** Recent spectroscopic observations of the aurora, night sky and twilight. (Astronomical journal, Sept. 1949. v. 54, no. 7, p. 184-85)

Contains a preliminary report on spectroscopic observations made as part of a program to investigate the physics of the upper atmosphere, a project supported by the U. S. Office of Naval Research. Observations were made at College, Alaska and at China Lake, California. A summary and comparison of data and characteristics observed is presented. **Copy seen:** DLC.

**21660. ELWELL, NISKA.** Moose melees. (Alaska sportsman, Nov. 1950. v. 16, no. 11, p. 18-21, illus.)

Account of the writer's experiences photographing moose, with description of the behavior of the cows protecting their calves, and some notes on bull moose behavior. **Copy seen:** DI.

**21661. EMEL'ĀNOV, A. A.** K gerpetofaune Shantarskikh ostrovov. (Akademii nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1932, no. 3-4, p. 78-80) **Title tr.:** On the herpetological fauna of the Shantar Islands.

Contains a description of a small collection of amphibians and reptiles, collected by A. D. Baturin on Shantar Island (Okhotsk Sea) in 1925-26, including *Rana temporaria*, *Salamandrella keyserlingii*, and *Coluber sachalinensis continentalis*. **Copy seen:** MH-A.

**21662. EMEL'ĀNOV, A. A.** Ob amfibiakh Okhotskogo kraia. (Akademii nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1934. No. 10, p. 119-21) **Title tr.:** On the amphibians of the Okhotsk region.

Contains descriptions of two amphibians: a frog, *Rana temporaria*, with dimensions, biological data and a comparison with the form found in European U.S.S.R.; and a triton, *Hynobius (Salamandrella) keyserlingii*; both amphibians are native to the Okhotsk region.

**Copy seen:** MH-A.

**EMERY, FREDERICK E.,** see Schwabe, E. L., & others. Effect prolonged exposure low temperature . . . rat. 1938. No. 25986.

**21663. EMERY, KENNETH ORRIS, 1914-, and R. R. D. REVELLE.** Large floating islands of the Arctic Ocean. (Geological Society of America. Bulletin, Mar. 1951. v. 62, p. 325)

Brief note describing three "ice islands" observed and photographed by Air Force weather observers during recent routine

flights to the North Pole by the U. S. Air Force (Operation Ptarmigan); remarks on possible modes of origin of the islands two of which are within a few hundred miles of the Pole, and the other about three hundred miles from Pt. Barrow.

**Copy seen:** DGS.

**21664. EMSHEIMER, ERNST.** A Lapp musical instrument. (Ethnos, Stockholm, 1947, Bd. 12, no. 1-2, p. 86-92, 2 illus., musical notes)

Contains account of the *fadno*, a wooden oboe, and its use. **Copy seen:** InU.

**21665. EMSHEIMER, ERNST.** Schamanentrommel und Trommelbaum. (Ethnos, Stockholm, 1946. Bd. 11, no. 4, p. 166-81, 2 illus.) **Title tr.:** The drum of the shaman and the tree of the drum.

Contains account of how a shaman's drum is made, the tree used for its frame probably representing "the world tree." Though drawing chiefly on accounts of Tawgis-Samoyed shamans, author also mentions drum-making techniques and related magic rites among the Yakuts and Tungus, and notes similar ideas found among the Lapps. **Copy seen:** InU.

**21666. EMSHEIMER, ERNST.** Eine sibirische Parallele zur lappischen Zaubertrommel? (Ethnos, Stockholm, 1948. Bd. 13, no. 1-2, p. 17-26, 6 illus.) **Title tr.:** A Siberian parallel to the magic drum of the Lapps?

Contains a comparison of Lappish drum-holders with one found in Siberia which probably was made by Samoyeds.

**Copy seen:** InU.

**21667. EMSHEIMER, ERNST.** Über das Vorkommen und die Anwendungsart der Maultrommel in Sibirien und Zentralasien. (Ethnos, Stockholm, 1941. Bd. 6, no. 3-4, p. 109-127, 6 illus., musical notes) **Title tr.:** On the presence and use of the mouth-drum in Siberia and central Asia.

Contains account of this primitive musical instrument which has a wide dissemination in a large area between the Ural Mts. and the Sea of Okhotsk. Its use among Ostyak, Samoyed, Tungus, Zyryan, Yakut, Koryak and Gilyak groups is noted. **Copy seen:** InU.

**21668. EMSHEIMER, ERNST.** Zur Ideologie der lappischen Zaubertrommel. (Ethnos, Stockholm, 1944. Bd. 9, no. 3-4, p. 141-69, 6 illus.) **Title tr.:** On the ideology of the Lapps' magic drum.

Contains remarks on the drum's two

purposes: to help the shaman to acquire the state of ecstasy, and to serve as an implement for divination. The author attempts to explain the drawings on the Lappish drums, especially the bow-and-arrow motif. **Copy seen:** DSI-M; InU.

**ENGINEERING RESEARCH AND DEVELOPMENT LABORATORIES.** *Fort Belvoir, Va., see Surveying and mapping.* Map reproduction. 1951. No. 26539.

**21669. ENGINEERING AND MINING JOURNAL.** Norway equips iron mine with Marshall Plan aid. (Engineering and mining journal, Mar. 1951. v. 152, no. 3, p. 68-71, illus.)

*Contains* some general notes on equipment and financing of the Sydvaranger mine at Kirkenes-Bjørnevåtn in northern Norway. **Copy seen:** DGS.

**21670. ENGINEERING NEWS-RECORD.** Earth-fill dam built on frozen ground. (Engineering news-record, Feb. 5, 1948. v. 140, p. 182-84, illus.)

*Description* of problems and operations at the Hess Creek dam 90 miles from Fairbanks, where sprinklers replaced jet sluicing for removal of overburden, and a refrigeration system was installed to speed refreezing of foundations. "... the frozen overburden was removed an average depth of 20 ft. by sprinkling with water at 52° F. The water of the muck-laden runoff was recovered by pumping it upstream and discharging it into tundra beds. The filtered water flowed back into the reservoir. Radiators containing a refrigerant were set up to quickly refreeze the exposed foundation in the summer."—SIPRE. **Copy seen:** DLC.

**21671. ENGINEERING NEWS-RECORD.** Large-scale DDT spraying reduces mosquito nuisance. (Engineering news-record, Nov. 30, 1950. v. 145, no. 22, p. 30-32, illus., map)

*Contains* note of aircraft used for spraying DDT and their special equipment; the composition of the DDT solution; the way of spraying and its effectiveness; dosage, etc. Also an account of large-scale spraying operations at Goose Bay in Labrador, Watson Lake in Yukon Territories and other localities in northern Canada. **Copy seen:** DLC.

**21672. ENGINEERING NEWS-RECORD.** Letter from Alaska. (En-

gineering news-record, Dec. 14, 1950. v. 145, no. 24, p. 112, incl. map)

"Approximately \$400 million was allocated for construction work in Alaska for the 1950-51 fiscal year. Plans call for the following division of expenditures: \$141 million for military agencies; \$80 million for other federal agencies including \$27 million for roads; \$22 million for the Alaska Railway; \$11 million for civilian airport construction; and \$41 million for housing."—SIPRE.

**Copy seen:** DLC.

**21673. ENGLERTH, GEORGE H.** Decay of Sitka spruce in southern Alaska. (Journal of forestry, 1947. v. 45, p. 894-900, illus., tables)

*Contains* report on a study of 630 trees from 11 plots. Data on age and size of trees and the kinds and amount of decay are offered. A list of fungi found on living Sitka spruce is included.

**Copy seen:** DA.

**21674. ENQUIST, FREDRIK KARL, 1885-** . Über die jetzigen und ehemaligen lokalen Gletscher in den Gebirgen von Jämtland und Härjedalen. Stockholm, 1910. 36 p. 16 text illus. incl. 6 maps, 5 plates incl. 3 maps (1 fold.). (Sweden. Geologiska undersökning. Afhandlingar och uppsatser. Ser. Ca, no. 5, pt. 5) **Title tr.:** The present and former local glaciers in the mountains of Jämtland and Härjedalen.

*Descriptions* are given of the glaciers and moraines in the massifs of central Sweden toward the Norwegian border. At present there are only four glaciers, the largest of which is on the Helagsfjäll (62°55' N.). The other four belong to the Sylfjäll.

**Copy seen:** DLC.

**21675. ENSLIN, EDUARD.** Die Tenthrediniden (Hymenoptera) der Kamtschatka-Expedition 1908-1909. (Akademicheskii nauchnyi muzei. Zoologicheskii muzei. Ezhegodnik, 1926, pub. 1927. t. 27, vyp. 4, p. 363-87) **Title tr.:** Tenthredinidae (Hymenoptera) of the Kamtschatka Expedition 1908-09.

*Contains* a critical revision of 132 specimens of sawflies (Tenthredinidae) collected in 1908-09 by the F. P. Rubushinskii expedition of 1908-1911; 43 species (seven new) and 11 varieties (seven new) in 23 genera are recorded here.

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**21676. ENTIN, MARTIN A., and others.** Experimental and clinical studies of

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reduced temperatures in injury and repair in man, 2; effect of moderate cold and refrigeration on wound healing and regeneration of human skin. (Plastic & reconstructive surgery, Jan. 1948. v. 3, p. 11-33, 24 fig.) *Other authors:* H. Baxter and R. H. More.

*Contains* a report on experiments on the effect of cold and refrigeration on healing of wounds caused by removal of skin with a dermatome. Moderate cooling immediately after skin removal delayed the rate of epithelization, this delay being directly proportional to the degree of cold and the duration of exposure; the fibrous tissue formation was not similarly affected and appeared to be increased for a few weeks after cooling. Optimal environmental temperatures for healing and the significance of the experiments are discussed. Bibliography (22 items).

*Copy seen:* DLC.

21677. ENTIN, MARTIN A., and H. BAXTER. Influence of rapid warming on frostbite in experimental animals. (Plastic & reconstructive surgery, June 1952. v. 9, p. 511-24, 7 fig., 5 tables)

*Contains* an extensive study with large numbers of rats and some dogs submitted to a standard reproducible, cold injury. Temperature and duration of exposure were correlated with the temperature in deep tissue and ultimate injury. Rapid thawing in bath of 35°-45° C. was most effective in reducing loss of limb; treatment with temperatures higher than 50° C. is detrimental; general hypothermia preceding acute freezing, results in greater loss of tissue. The mode of action of rapid thawing is discussed. Bibliography (25 items).

*Copy seen:* DLC.

ENTIN, MARTIN A., *see also* Baxter, H., & M. A. Entin. Experimental & clinical studies 3, direct effect cooling on skin. 1948. No. 20512.

ENTIN, MARTIN A., *see also* Baxter, H., & M. A. Entin. Experimental & clinical studies 4, effect cold vascular elements skin. 1950. No. 20513.

ENTOMOLOGISK TIDSKRIFT. *see* Wahlgren, E. Summarisk redogörelse i Entomologisk tidskrift, 1890-1909. 1911. No. 27221.

21678. ÈNĚSIKLOPEDICHESKĬ SLOVAR'. Korñaki. (In: ÈnĚsiklopedi-

cheskil slovar', 1890-1904. v. 16, p. 364-65) *Title tr.:* The Koryaks.

Brief account of this people (about 5,000) dwelling on the Okhotsk, Kamchatka and Bering sea coasts or wandering on the tundras of those regions; their relationship to the Tungus, Kamchadals and Chukchis; their grouping in nomadic reindeer-breeding clans and in village settlements on the coast; their physical characteristics, and language; psychological differences between the settled and migratory groups; religious beliefs and practices, shamanism, etc.; their domestic life, customs and tattooing; dwellings and huts; clothing and ornamentation; their mode of life, hunting and fishing, reindeer and cattle-breeding; farm and garden cultivation; fur trade; native markets for iron and walrus-tusk implements; clan organization and history.

*Copy seen:* DLC.

21679. ÈNĚSIKLOPEDICHESKĬ SLOVAR'. Lopari. (In: ÈnĚsiklopedicheskil, slovar', 1890-1904. v. 18, p. 1-2) *Title tr.:* The Lapps.

Brief but informative article on this people, numbering about 25,000, inhabiting the northern regions of Sweden, Norway, Finland and Kola Peninsula; etymology of their name "Saami"; their area, origin and relationship to Finns and other aboriginals; various Lappish dialects; physical characteristics; underdevelopment; their former stone-age and metallic cultures; their various primitive customs; psychological characteristics; fishing, trapping and reindeer breeding; reindeer sledges; low economic status; religious beliefs and shamanism; folklore, myths, songs, etc.

*Copy seen:* DLC.

EPSHTEIN, V. M., *see* Kaťs, N. ĪA., & others. O torfñnikakh Sev. Dviny. 1935. No. 23163.

21680. EPSTEIN, SAMUEL, 1909- , and B. WILLIAMS. The real book about Alaska, illustrated by Mary Stevens. [1st ed.] Garden City, N. Y., Garden City Books, by arrangement with P. Watts [New York, 1952] 191 p. illus., map. (Real books)

A book for youth giving a description of the country, its past and its present life: chapters on the first Alaskans (Eskimos, Aleuts, Tlingit Indians, etc.); Russian discovery and administration of the country; American acquisition and government of Alaska; the gold rush;

marine resources; Alaska today. An appendix contains a list of "Alaskan" words and expressions and important historical dates. **Copy seen:** DLC.

**EPSTEIN, SAMUEL, 1909-**, and **B. W. EPSTEIN**, see Coe, D. Vägen till Alaska. 1946. No. 21243.

**21681. ERAKHTIN, D. D., and E. I. LOPUKHOV.** Odnokoleinye led'nyye dorogi. 2. dop. i perer. izd. Moskva, Goslesbumizdat, 1950. 319 p., illus., diagrs. **Title tr.:** Single-track ice roads. 2d enlarged and revised edition.

"Winter roads are built in logging regions by allowing water to freeze in a single deep rut centered in the roadway. Special sleds are equipped with a single main runner for supporting the load and an accessory runner on each side for maintaining balance. The normal width between the lateral runners is 3.4 m. Several such sleds forming a train may be pulled by truck, tractor, or by horses. The coefficient of resistance to motion for single-track ice-roads is 13-17 kg/ton compared with 18-22 kg/ton on 2-track ice-roads, and 35-50 kg/ton on snow-roads. Two single-track roads may be constructed with a minimum distance of 6 m. between the tracks made by the main runner. Single-track ice-roads require a winter of at least 60 days, little variation in topography, and an abundant supply of water. The construction of such roads is economical and a minimum of 25,000 cu. m. of timber should be made available for a 5-yr. period."—SIPRE. Scaled drawings for sledges and bibliography (48 items) are included. Previous edition was published as *Odnokoleinye traktorno-led'nyye dorogi* (Single track ice roads for tractors) 1942 (138 p.). **Copy seen:** DLC (both editions).

**ÉRDELI, A. S.,** see Zenkovich, B. A., & A. S. Érdeli. Iz itogov raboty TIRKHa 1934. 1935. No. 27573.

**21682. EREMIN, A. P.** Osadki élektrostantsii, postroennoi na vechnoi merzloté. (Vestnik inzhenerov i tekhnikov, 1936. t. 22, no. 5, p. 282-87 incl. illus.) **Title tr.:** Settling of electric power station constructed on permafrost.

"An electric power station consisting of two boilers, each having a heating surface of 300 m<sup>2</sup> and two turbines with a total capacity of 3600 kw., was constructed on permafrost between 1928 and 1930. The building foundation of stand-

ard construction was sunk 8.3 m. below the surface, well into the permafrost layer. The foundations under the boilers and turbines rested on wooden piles, 25 cm. in diameter, and 7.50 m. long. The 1931-1935 survey indicated that the foundations generally settled uniformly up to the summer of 1934, and that settling became accelerated in the fall of 1934. The boiler foundations sank to 32.9 cm. and the turbine foundations to 19.9 cm. A considerable lag in settling was noted for the building foundations. It was determined that the settling was due to excessive thawing of the permafrost by the heat generated in the plant, to the thermal effects of the water supply system, and to the raised level of the nearby lake which was the water source. Fortification of the foundations with cement blocks and the addition of 12 to 18 piles under the turbines and boilers failed to arrest the deformation process."—SIPRE. **Copy seen:** DLC.

**21683. ERICHSEN, EIVIND.** Norway in a nutshell. Illustrated survey with maps and useful hints for visitors. [Bergen] J. Grieg [1951]. 52 p. illus.

Contains comprehensive but concise information for tourists about the country, the people and their social condition. Included are the northern areas of Norway and the dependencies: Svalbard, Jan Mayen also Norwegian Antarctic areas. **Copy seen:** DLC.

**ERICKSON, DONALD WILLIAM, 1910-**, see Baltzo, C. H., & D. W. Erickson. Fishery industries Alaska & administration. 1948. No. 20434.

**21684. ERICSON, ISAAC BIRGER, 1847-1920.** Översikt der bisher in Schweden angetroffenen Arten der Familie Trichopterygidae. (Entomologisk tidskrift, 1908. Årg. 29, häft. 2-3, p. 121-24) **Title tr.:** A review of the species of the family Trichopterygidae.

Contains a systematic list of 46 Swedish species of caddisfly beetles of the family Trichopterygidae, including 13 occurring in Swedish Lapland, and critical notes on four noteworthy species. **Copy seen:** MH-Z.

**21685. ÉRIKOV, I.** Rybovodstvo v SSSR za 1929-1938 gg. (Po materialam Glavrybvoda Narkomrybproma SSSR). (Bülleten' rybnogo khoziaistva, 1940, no. 1, p. 19-24, tables) **Title tr.:** Pisciculture in the U.S.S.R. during 1929-

1938. (From materials of the Main Administration of fish-breeding and fisheries of the People's Commissariat of Fisheries of the U.S.S.R.).

The various aspects of fish farming and fish breeding of the country are reported according to species and districts. The figures cover arctic areas as well as cold-water species. Experiments in acclimatization, introduction of new species and saving of fish-fry are also reported.

**Copy seen:** DLC.

**21686. ERIKSSON, JOHN.** *Peniophora* Cke Sect. *coloratae* Bourd. & Galz. A taxonomical study with special reference to the Swedish species. Uppsala, A.-B. Lundequistska bokhand, 1950. 76 p., illus. (25 fig.). (Symbolae botanicae upsalienses. v. 10, no. 5)

Contains introductory notes and a critical study of 20 species of hymenomycetous genus *Peniophora* (in six groups) with synonymy, description, list of specimens, Swedish localities and data on general distribution of these fungi; bibliography (50 items).

**Copy seen:** DA; MH-A.

**ERIKSSON, JOHN**, see also Nannfeldt, J. A., & J. Eriksson. On *Costantinella*. 1952. No. 24565.

**21687. ERIKSSON, LARS.** Jäänsärkijä Sisu. (Teknillinen aikakauslehti, 1939. 29:5-6, p. 178-84, illus., diags.) **Title tr.:** The ice-breaker *Sisu*.

Contains description and full illus. of structure and motors of the ice-breaker *Sisu* built in the Wärtsilä-Hietalahti shipyard at Helsinki in 1938. "The vessel has very extensive accommodations and some special arrangements to meet the requirements when used as a depot ship for submarines. The ice-breaker is diesel-electrically propelled, having two propelling motors aft and one fore. In the main engine-room there are three eight-cylinder single-acting two-stroke Polar diesel motors, coupled to direct-current generators . . . Each propelling motor develops 1.335 s. h. p. in ice, the stern motors running at 140 r. p. m. and the fore motor at 160 r. p. m."—English summary.

**Copy seen:** DLC.

**21688. ERIKSSON, UNO.** Liinahamarin valtionsatama Petsamossa. (Teknillinen aikakauslehti, 1933. v. 23, no. 12, p. 407-410, illus., diags.) **Title tr.:** Government harbor of Liinahamari in Petsamo.

"When Petsamo was united to Finland, the road network had to be widened to the Arctic Ocean coast. A harbor had also to be built on the ice-free seacoast, as the old harbor of Trifona was not suitable on account of its freezing. The road was built to Liinahamari, where the depth by the quay is 6.5 metres, but the slope of the bottom makes it serviceable at low tide for ships up to 26 feet deep. The length of the quay is 47 metres and the storehouse nearby 210 sq. metres. The writer has planned and supervised the whole construction. The total cost was Fmk. 600,000."—English summary.

**Copy seen:** DLC.

**21689. ERIKSSON, UNO.** Norjan jäämeren satamapaikat. (Teknillinen aikakauslehti, 1923. v. 13, no. 9, p. 271-88, illus., diags., map) **Title tr.:** Norway's arctic ocean ports.

Contains data on the structure of pier foundations in the fishing ports of Skrova, Melbu, Andenes, Torsvaag, Tromsø, Kirkehamn, Berlevaag, Vardø and Vadsø, all on the northern Norwegian seacoast.

**Copy seen:** DLC.

**21690. ERKAMO, VILO.** Suomen kasvistollisesti tutkitut seudut. (Luonnontutkija, 1948. v. 52, no. 3, p. 86-87, map) **Title tr.:** Areas of Finland in which the flora has been studied.

Contains a brief general survey of Finnish localities (over 100 indicated on map) where the flora has been studied to varying stages of completeness.

**Copy seen:** DLC.

**ERKAMO, VILO**, see also Hustich, I., ed., Recent climatic fluctuations Finland; symposium. 1952. No. 22755.

**ERKKILÄ, E. E.**, see Osara, N. A., & others. Suomen puun käyttö. 1948. No. 24874.

**21691. ERLANDSSON, STELLAN.** *Bombus soroeënsis* Fabr. (Hym.) en mindre kand art i vår fauna. (Entomologisk tidskrift, 1950. Årg. 71, häft. 1, p. 20-26, illus.) **Title tr.:** *Bombus soroeënsis* Fabr. (Hym.) a little known species of Swedish fauna.

Contains a critical study of one of the species of humblebees least known in Sweden, *Bombus soroeënsis*, divided by the author into two subspecies, one of which, *B. soroeënsis* ssp. *soroeënsis*, is distributed in northern Sweden, spreading to the Abisko region, Torne Lappmark. Summary in English.

**Copy seen:** DA; MH-Z.

**21692. ERLANDSSON, STELLAN.** Cytologiskt - växtgeografiska rasstudier i Nordens *Parnassia palustris*-population. (Acta horti bergiani, 1942. Bd. 13, no. 4, p. 117-48, illus., text maps) **Title tr.:** Cytological and phytogeographic investigations of *Parnassia palustris* L. in Scandinavia.

**Contains** the results of the author's cytological and phytogeographic investigation of an herb, *Parnassia palustris*, and its varieties in Scandinavia and Denmark, with lists of localities for each form, including var. *tenuis* distributed in Torne Lappmark, northern Sweden, and the Petsamo (Pechenga) region. Summary in English. **Copy seen:** MH-A.

**21693. ERLANDSSON, STELLAN.** Släktet *Eumenes* Latr. (Hym.) och dess i Sverige förekommande arter. (Entomologisk tidskrift, 1950. Årg. 71, häft. 3-4, p. 235-42, text maps) **Title tr.:** Swedish species of the genus *Eumenes* Latr. (Hym.)

**Contains** a key to the species of hymenopterous genus *Eumenes* and descriptions of two species occurring in Sweden with lists of localities, *E. pedunculata* spreading to Swedish Lapland. Summary in English. **Copy seen:** MH-Z.

**21694. ERMAN, GEORG ADOLF, 1806-1877.** Ortsbestimmungen bei einer Ueberfahrt von Ochozk nach Kamtschatka und darauf begründete Untersuchung der Strömungen in der Nordhälfte des Ochotzer Meeres. (Archiv für wissenschaftliche Kunde von Russland, 1847. Bd. 5, p. 530-60, incl. tables) **Title tr.:** Geodetic determinations on a voyage from Okhotsk to Kamchatka, and study of the currents of the northern half of the Okhotsk Sea based thereon.

**Contains** detailed mathematical discussion of geographic positions between Okhotsk and the mouth of the Tigil River (about 58° N. 158° E.). Author notes an east-flowing current, and attributes to lack of knowledge of this current, errors in geodetic determination at the river shown on earlier maps.

**Copy seen:** DLC.

**21695. ERMAN, GEORG ADOLF, 1806-1877.** Ueber Ebbe und Fluth an den Ochotzer und Kamtschatischen Küsten des Grossen Oceans. (Archiv für wissenschaftliche Kunde von Russland, 1843. Bd. 3, p. 634-82) **Title tr.:** Tides on the Okhotsk and Kamchatka coasts of the Pacific Ocean.

**Contains** tidal data based on observations made during the author's journey through northern Asia in 1828-30, (1) at the Kukhtui River near Okhotsk (59°21' N. 143°12' E.) June 20-July 18, 1829, with comparative data from an earlier source, 1738-39, and (2) at the mouth of the Tigil River, western Kamchatka (58°01' N. 158°14' E.) Aug. 11-12, 1829; with full discussion throughout and data for Petropavlovsk (53°01' N. 158°39' E.) May 1741; also note on Bol'sheretsk (52°54' N. 156°32' E.).

**Copy seen:** DLC.

**21696. ERMASHEV, I. I.** "Pol'arna strategiya" i pol'arna ekspanziya. Sofia, izd-vo na Bulg. rabotnicheska partiya (komunisti) [1947] 37 p. **Title tr.:** "Polar strategy" and polar expansion.

Author traces U. S. expansion in the arctic region, especially the establishment of military bases after World War II, and interprets it a step towards world domination and war against the Soviet Union.

**Copy seen:** DLC.

**ERMASHEV, I. I., see also Amerikanskii Sever; sbornik statef. 1950. No. 20180.**

**ERMASHOV, I. I., see Ermashev, I. I.**

**21697. ERMILOV, I. ĪA.** O nakhodke lentochnykh glin v. Gydanskoi tundre. (Akademika nauk SSSR. Komissiya po izucheniiu chetvertichnogo perioda. Trudy, 1937. t. 5, vyp. 1, p. 167-71) **Title tr.:** On finding of a striated clay in the Gydanskaya Tundra.

**Contains** description of the clay found in the Gyda River valley, 71° N. 79°30' E., and on the northeastern shore of Lake Khosefno, 71° N. 79°59' E., noting its uncertain (Quaternary) age, and association with sands recovered with bones of mammoths. Summary in French.

**Copy seen:** DGS.

**21698. ERMOLAEV, MIKHAIL MIKHAILOVICH, 1905-** . Geologicheskaya karta severa Aziatskoi chasti SSSR. (Moskovskoe obshchestvo ispytatelei prirody. Biulleten', 1937. Novaya seriya, t. 45, otzel geol. t. 15, vyp. 2, p. 161-64) **Title tr.:** Geological map of northern Asiatic U.S.S.R.

**Contains** a review of the geological map (scale 1:2,500,000) of northern Siberia edited by the Geological Institute of the U.S.S.R., with data on the tectonic structure of arctic U.S.S.R. and the

principles of the geological division of this region.

**Copy seen:** DLC; MH-Z.

**ERMOLAEV, MIKHAIL MIKHAILOVICH, 1905-**, see also Samollovich, R. L., & others. *Geologiya Arktiki*. 1937. No. 25812.

**21699. ERRULAT, FRITZ.** Über die mittlere Intensität von starken erdmagnetischen Stürmen in Abhängigkeit von der geomagnetischen Breite. (Deutsche hydrographische Zeitschrift, June 1948. Bd. 1, Heft 2-3, p. 72-79, tables, diags.) **Title tr.:** On the mean intensity of great geomagnetic disturbances as dependent on the geomagnetic latitude.

When the effect of strong geomagnetic disturbances in polar regions is represented as a function of geomagnetic latitude, "we find great regional differences, which may be extinguished by choosing a suitable reference point. This point is identical with 'Julius Bartels' tracepoint B' of the axis of the eccentric dipole representing the homogenous magnetization of the earth and lies on the symmetry-axis of the curves of electric charges when entering the earth's magnetic field."—Summary. **Bibliography** (7 items). **Copy seen:** DLC.

**21700. ERSHOFF, BENJAMIN H., and O. J. GOLUB.** Effects of prolonged exposure to cold on the serum protein-bound iodine of the rat. (Archives of biochemistry, Jan. 1951. v. 30, no. 1, p. 202-206)

**Contains** a report on experiments with immature rats kept for 45 days at an environmental temperature of 2° C. No increase of iodine bound to the serum protein was observed in comparison with controls kept at room temperature. **Bibliography** (20 items).

**Copy seen:** DLC.

**21701. ERSHOFF, BENJAMIN H.** Effects of prolonged exposure to cold on vitamin A requirement of rat. (Society for Experimental Biology and Medicine. Proceedings, July 1950. v. 74, p. 586-87)

**Contains** report on experiments with immature rats fed a vitamin A-deficient diet and kept under normal and cold room conditions. Animals kept at low temperature depleted more rapidly their vitamin A reserves, lost more weight and their survival after depletion was significantly shortened. **Copy seen:** DLC.

**21702. ERSHOFF, BENJAMIN H.** Effects of thiouracil feeding on resistance to low environmental temperature. (Endocrinology, July 1948. v. 43, p. 36-39)

**Contains** a report on experiments with adult rats made hypothyroid by thiouracil feeding. They survived 5.7 days at low environmental temperature, while similar rats with administration of thyroxin showed a 100 per cent survival over a 28-day period. Results similar to those obtained by thiouracil appeared after feeding promin, and are expected from other antithyroid agents. **Bibliography** (6 items). **Copy seen:** DLC.

**21703. ERSHOV, A. I.** Meropriiatia po umen'sheniiu promerzaniia i po likvidatsii merzlogo sloia torfianoi zalezhi na uchastkakh dobychi gidrotorfa. (Torfianaya promyshlennost' Oct. 1952. v. 29, no. 10, p. 16-18, diags.) **Title tr.:** Measures to reduce freezing and to liquidate the frozen layer of the deposits, in bottom-peat production areas.

**Contains** an account of frost prevention measures applied in the area of the author's activity and their effect on the thickness of the frozen layer. The snow cover and its removal, breaking up of the frozen layer, use and types of machines, costs, etc., are discussed.

**Copy seen:** DLC.

**21704. ERSHOV, NIKOLAI GRIGORIEVICH, 1837-1896, and A. A. FIL'D.** Katalog cheshuekrylykh Rossiiskoi Imperii. (Russkoe entomologicheskoe obshchestvo, St. Petersburg. Trudy, 1867. t. 4, p. 130-204, map) **Title tr.:** Catalogue of Lepidoptera of Russian Empire.

**Contains** a systematic list of 3180 species of butterflies and moths inhabiting Russia (incl. Finland), with data on geographic distribution in eleven regions, including northern provinces of European Russia and Siberia, a bibliography (62 items) p. 136-38, critical notes, p. 191-99, and an index of families and genera, p. 200-204. **Copy seen:** MH-Z.

**21705. \*ESBEN-PETERSEN, PETER, 1869-**. Nogle Plecopterer fra Lappland. (Entomologisk tidsskrift, 1920, pub. 1921. Årg. 41, hæft. 2-4, p. 159) **Title tr.:** Some Plecoptera from Lapland.

**Contains** notes on eight species of stone flies (Plecoptera) collected by O. Ringdahl

\*Previously listed in *Arctic Bibliography* as Petersen, Esben.

in Swedish Lapland, with data on their distribution in Sweden and Norway.

**Copy seen:** DLC; MH-Z.

**21706. ESBEN-PETERSEN, PETER, 1869-** . Notes concerning some Neuroptera in the Helsingfors Museum together with a description of *Hemerobius poppii*. (Notulae entomologicae, 1921. Arg. 1, häft. 2, p. 38-43, illus.)

**Contains** an English diagnosis of *Hemerobius poppii* n. sp. from Ust' Vilyuy (Lena River) eastern Siberia, and descriptive notes on 21 neuropterans in the collections of Helsinki Museum from various regions of Europe and Asia, including *Euroleon* (*Myrmeleon*) *polyspilus* from Ust' Vilyuy, and *Boriomyia quadrifasciata* from Dudinka on lower Yenisey River. **Copy seen:** DLC; MH-Z.

**21707. ESIPOV, VLADIMIR KONSTANTINOVICH, 1896-** . K sistematike poliarnoi kambaly (*Liopsetta glacialis*) Barentsova i Karskogo morei. (In: Sbornik N. M. Knipovicha, 1939, p. 167-76, illus.) **Title tr.:** On systematics of polar plaice (*Liopsetta glacialis*) of the Barents and Kara Seas.

**Contains** the results of the author's biometric investigation of this fish from Kolguyev Island (Barents Sea) and Cheshskaya Bay (Kara Sea), with descriptions of *Liopsetta glacialis glacialis* (White Sea, Dvina Bay), *L. g. caninensis* (Barents Sea) and *L. g. knipowitschi* n. subsp. from Ob' Bay, Kara Sea. Measurements, comparative tables and data on biology and ecology are given.

**Copy seen:** MH-Z.

**21708. ESIPOV, VLADIMIR KONSTANTINOVICH, 1896-** . Treska ozera Mogil'nogo na ostrove Kil'dine v Barentsovom more. (Gidrobiologicheskii zhurnal SSSR, 1930. t. 9, no. 4-6, p. 131-37) **Title tr.:** Cod from Lake Mogil'noye on Kildin Island in the Barents Sea.

**Contains** a detailed morphological description of *Gadus callarias kildinensis*, a species of cod inhabiting the relict lake Mogil'noye on Kildin Island off the Murman coast, with tables of measurements and a comparison with ocean cod (see table on p. 135).

**Copy seen:** MH-F.

**21709. ESKOLA, PENTTI, 1883-** . Kévojoen kuru, Suomen "Suuri kanjoni". (Terra, 1932. 44:3, p. 178-86, illus.,

map) **Title tr.:** The gorge of Kevu River, the "Grand Canyon" of Finland.

Photographs of landscape in the Kevu valley in northern Lapland are reproduced with brief description of its physiography. This river is a left tributary (at about 69°45' N. 27° E.) of the Utsjoki - Tana River system.

**Copy seen:** DLC.

**21710. ESKOLA, PENTTI, 1883-** . Malminetsinnästä ja malmityypeistä. (Terra, 1935. 47:2-3, p. 129-46) **Title tr.:** On ore prospecting and ore types.

"A short history of the prospecting for ores in the Pre-Cambrian rock crust of Finland during later years, and a synopsis of the ore types so far known in Finland with a special regard to their bearing in future prospecting work."—English summary, p. 146. Includes data on some ore deposits in northern Finland.

**Copy seen:** DLC.

**21711. ESKOLA, PENTTI, 1883-** . Selostus Ivalojoen alueella 1924-25 tehtyjen kultatutkimusten tuloksista. (Teknillinen aikakauslehti, 1925. v. 15, p. 263-72, tables, map) **Title tr.:** Observations on the results of the 1924-25 Ivalo River area gold studies.

**Contains** an account of placer mining in the Ivalo River area since 1870. On the basis of 100 tests at various localities, the author, a geologist, estimates that 1,000 kilos of gold is available in river bottoms which contain over two grams of gold to the cubic meter of soil. Individual gold-washing (by pan and small sluice box) would not be practical, but use of machinery should be profitable since it can operate on 0.25 g./m<sup>3</sup> soil areas. The amount of gold in the entire area, on the basis of this preliminary survey, is greater than formerly considered, for other rivers than Ivalo contain gold in quantities over this minimum workable amount. **Copy seen:** DLC.

**21712. ESKOLA, PENTTI, 1883-** . Tietoja Pöyrisjoesta ja sen väylänmuutoksesta Vuontisjärven alapuolella. (Terra, 1908. 20, p. 191-200, illus., map) **Title tr.:** Observations on the Pöyris River and its change of channel below Lake Vuontis.

**Contains** geologic sketch of the locality (about 68°30' N. 24° E.) and the story of how this new channel was caused by a farmer digging small irrigation ditch from the top of the esker (holding the lake side at that point) to his lower fields,

just prior to ice-melting time in 1861 when the lake was high with water and ice. As the digging penetrated the frozen moraine to thaw soil near the lake, water appeared in the soil, shortly thereafter, the side of the lake gave way and the entire area was flooded. The lake level was lowered 7 meters, the previous river-bed dried up, and the new channel crossed to a smaller river. The latter has low banks and is subject to floods, which have deposited soil, making the locality (47 years later) the richest farm land in Enontekiö region in Lapland.

**Copy seen:** DLC.

**21713. ESMARK, BIRGITHE.** Bidrag til kundskaben om udbredelsen af Norges land-og ferskvandsmollusker i forskjellige egne af landet. (Nytt magasin for naturvidenskapene, 1880. Bd. 25, hefte 3, p. 215-23, illus.) **Title tr.:** A contribution to the knowledge of distribution of Norwegian land and fresh-water molluscs in various regions of the country.

Contains a list of one hundred marine and fresh-water molluscs from various parts of Norway, arranged by the regions, with description of one new species, localities and occasional notes; includes at least four native to Tromsø county.

**Copy seen:** DLC; MH-Z.

**21714. ESMARK, LAURITUS MARTIN, 1806-1884.** Beskrivelse over en ny fiskeart, *Brama raschii* Esm. (Norske videnskaps-akademi, Oslo. Forhandling, 1861, pub. 1862. p. 238-47) **Title tr.:** Description of a new species of fish, *Brama raschii* Esm.

Contains a diagnosis, dimensions and detailed morphological description of *Brama raschii*, n. sp., a fish caught near Hammerfest, Finnmark, northern Norway.

**Copy seen:** DLC; MH-Z.

**21715. ESPENSHADE, GILBERT HOWRY, 1912-**, and **C. H. BROEDEL.** Annotated bibliography and index map of sulfur and pyrites deposits in the United States and Alaska (including references to July 1, 1951). Washington, D. C., 1952. 48 p. fold. map. (U. S. Geological Survey. Circular 157). Process printed.

Includes nine references to occurrences in the Aleutian Islands, southern and Southeast Alaska. **Copy seen:** DGS.

**ESSENE, F. J.,** see Sanders, I. T. Societies around the world. 1952. No. 25824.

**ESSEX, HIRAM E.,** see Quintanilla, R., & others. Studies on frost-bite treatment & effect blood vessels. 1947. No. 25318.

**21716. ESTREICHER, ZYGMUNT.** Die Musik der Eskimos; eine vergleichende Studie. (Anthropos, Ephemeris, 1950. Bd. 45, p. 659-720, 2 maps, musical notes) **Title tr.:** The music of the Eskimos; comparative study.

Contains an investigation of the traditional Eskimo music and its different styles among the Caribou, Alaska and Mackenzie delta, Greenland, Copper, Central and Smith Sound region (i. e. Polar) Eskimos. The study deals with melodic, tonal structure, rhythm, tectonic and other musical aspects. The purest Eskimo style is represented in the songs of Padlermiut, a Caribou Eskimo tribe living to the west of Hudson Bay. The oldest dance songs had stanzas, each stanza consisting of a verse and a refrain which had different tunes. The author used material from others' (not his own) field work.

**Copy seen:** DLC; InU.

**21717. EULER-CHELPIN, ASTRID MARIA (CLEVE), 1875-** . The diatoms of Finnish Lapland. Helsingfors, 1934.

154 p., incl. tables, 4 plates (161 figures, fold. map). (Finska vetenskaps-societeten. Commentationes biologicae, 4; 14)

Contains outline of previous work in the area and author's investigations and itinerary in 1932; systematic enumeration (p. 6-96) of diatom forms in 118 samples which she collected between Karesuando, Inari and Aapajärvi. Discussion (p. 97-138) of the diatomaceous material found and the late glacial development of Finnish Lapland; a floristic-ecological comparison between the diatom floras of Swedish and Finnish Lapland; the floristic elements in the microflora of northwestern Finnish Lapland; geologic conclusions derived from the diatom associations in the area investigated; diatomaceous remains in the Ivalo delta; the late glacial development and diatom colonization of Lakes Kuolajärvi - Aapajärvi.

**Copy seen:** DLC.

**21718. EULER-CHELPIN, ASTRID MARIA (CLEVE), 1875-** . Det Gotiglaciala havets utbredning samt maximihöjd i Nordfinland och i trakterna omkring Vita Havet. (Terra, 1934. 46:1, p. 91-110, maps) **Title tr.:** The extent and limit of the Gotiglacial sea in north-

ern Finland, and in the region around the White Sea.

On the basis of fossil remains, shore lines, and terraces, author postulates two systems or surfaces of late-glacial limits in northernmost Finland. Summary in English.

**Copy seen:** DLC.

**EUROPAEUS, D. E. D.**, see Itkonen, T. I., & D. E. D. Europaeus. Koltan-ja kuolanlapp. satuja. 1931. No. 22858.

**21719. EVANS, ERIC LLOYD, 1914-**. Native copper discoveries in the Seal Lake area, Labrador. (Geological Association of Canada. Proceedings, 1952. v. 5, p. 111-16, fold. map)

Contains notes on the general geologic relations of the Precambrian terrain of the Seal Lake region (54°20' N. 61°40' W.) Labrador, and a preliminary report on the copper deposits which are of three types: tissue veins, conglomerate lodes and amygdaloidal lodes.

**Copy seen:** DGS.

**EVANS, G. T.**, see Kottke, F. J., & others. Effect hypoxia temp. reg. mice dog & man. 1948. No. 23417.

**21720. EVDOKIMOV, IVAN VASIL'-EVICH, 1887-**. Pavlin Vinogradov; épizody bor'by protiv interventov i belogardel'tsev na Severe v 1918 g. Moskva, Gos. voenno-morskoe izd-vo, 1941. 82 p. (Biblioteka krasnoflot'sa) **Title tr.:** Pavlin Vinogradov; episodes in the struggle against the interventionists and White army in the North in 1918.

A popular account of the Bolshevik campaign in the Murman, against the British during the Revolution and the story of Pavlin Vinogradov as a patriot organizer and commander who died fighting the enemy.

**Copy seen:** DLC.

**21721. EVJEN, SIG.** Norwegian meteorological work in the Polar regions. (Norsk polar-tidende, no. 1, Polarårboken 1950, p. 67-68) Text in Norwegian and English.

Contains a list of Norwegian meteorological stations maintained in the Arctic; their personnel; equipment; administration; radio equipment, transmitters, stations, etc.

**Copy seen:** CaMAI.

**21722. EVJENTH, HÅKON.** Litt om ryperna i Øst-Finnmark. (Norsk ornithologisk tidskrift, 1932. ser. 4, nr. 13, p. 48) **Title tr.:** Brief note on ptarmigan in East Finnmark.

On the local perennial migrations of

*Lagopus lagopus* and habits of *Lagopus mutus*.

**Copy seen:** DI.

**EVTIŪKHOV, N. A.**, see Morozov, A. V., & others. O rasovom i vozrastnom sostave sel'di. 1934. No. 24481.

**21723. EXPÉDITIONS POLAIRES FRANÇAISES. EXPÉDITION ARCTIQUE, 1948-1950.** Recueil des observations météorologiques effectuées par la station française du Groënland entre le 20 juillet 1949 et le 14 juillet 1950. France, Météorologie Nationale, 1950. 162 p. Mimeographed. **Title tr.:** Correlation of meteorological observations carried out at the French station at Greenland from July 20, 1949 to July 14, 1950. (Its: Série scientifique no. 12)

"A general description of the preparations for the expeditions, containing a list of personnel of bases, various technical details such as transportation, food, etc. The monograph contains daily surface synoptic observations and weekly summaries, wind observations by means of pilot balloons and radiosonde data. The data have not been analyzed; they are given in their original form."—*Meteorological abstracts and bibliography*, Sept. 1951. v. 2, no. 9, p. 734-35.

**Copy seen:** DWB.

**21724. EL'PIN, A. G.** Ostfâki na Konde. (Talga i tundra, 1928. no. 1, p. 6-9) **Title tr.:** Ostyaks on the Konda River.

Contains a popular sketch by a native Ostyak of present-day (1928) life of Ostyaks on the Konda River, 59°-60° N. lat., their dwellings, occupation (hunting, fishing and animal husbandry), the economic and cultural situation, etc.

**Copy seen:** DSI-E.

**21725. EXPLORERS JOURNAL.** Scientists bring proof 1,325 feet deep Chubb Crater gouged by meteorite. (Explorers journal, Winter-Spring 1952. v. 30, no. 1-2, p. 24-29, illus. sketch map)

Account of the crater in northern Ungava Peninsula discovered by V. B. Meen in 1950 and investigated by the National Geographic Society—Royal Ontario Museum Expedition in summer 1951. Description and dimensions are given; the crater's origin was established by magnetometer survey and the opinion is given that it was formed by a meteorite exploding as it struck earth 3000-15,000 years ago. Remarks on other notable meteorites are added.

**Copy seen:** CaMAI.

**21726. EYERDAM, WALTER J.** Alaskan and Aleutian Island hepatics. (Bryologist, Mar. 1952. v. 55, no. 1, p. 26-35)

Contains a catalog comprising 17 genera and some 85 species (seven of the latter new to the area) of liverworts. The account is preceded by a list of localities searched; general notes on distribution, etc. The catalog is based on many seasons of collecting. **Copy seen:** DLC.

**21727. EYERDAM, WALTER J.** Extended ranges of four Alaskan marine shells. (Nautilus, Apr. 1944. v. 57, p. 142)

Note on three species taken westward of former known ranges on Aleutian Islands and southern Alaska, also one species (formerly known only as far west as western Bering Sea) taken from the mouth of the Yenisey River.

**Copy seen:** DSI-M.

**21728. EYERDAM, WALTER J.** A giant bracket fungus found in southeastern Alaska. (Svensk botanisk tidskrift, 1952. bd. 46, häft. I, p. 131-32, illus.)

Contains a description of the fungus *Fomes applanatus*, found living on a Sitka spruce on Kuui Island, Washington Bay, Southeast Alaska, with notes on habitat and dimensions.

**Copy seen:** MH-A.

**21729. EYERDAM, WALTER J.** *Uloa drummondii* in North America. (Bryologist, 1951. v. 54, no. 1, p. 57-58)

This rare moss, until recently thought not to be found in America, is reported by the author from several localities in Alaska and the Aleutians. A few collections of this moss have also been made on the east and west coast of North America.

**Copy seen:** DA.

**EYERDAM, WALTER J.,** see also Thompson, J. W. Some additional lichens. 1950. No. 26689.

**21730. FAAS, VLADIMIR VIL'GEL'-MOVICH.** Lesnaja promyshlennost'. Moskva, Gos. izd-vo, 1925. 90 p., maps, diagrs. (Bogatstva S.S.S.R., vyp. 6) **Title tr.:** Forest industry. (Natural resources U.S.S.R. no. 6)

This work covers (among others) extensive arctic regions, and offers data on the area of forests in each district; the general character and composition of the forests; ownership; timber industries and number of workmen employed; capital; exports. Chapters on: (1) history of the development of forests in

the U.S.S.R.; (2) forest resources of prewar Russia and the U.S.S.R. and their distribution; the forests of (3) the European part, (4) the Asiatic part of the U.S.S.R., and (5) the Caucasus; (6) forest industry and trade of the U.S.S.R. as connected with timber export. Bibliography (55 items). **Copy seen:** DLC.

**21731. FABER, KURT, 1883-1929.** Unter Eskimos und Walfischfängern; Eismeerfahrten eines jungen Deutschen. Stuttgart, Robert Lutz [1916]. xxv, 369 p. front., plates, map. **Title tr.:** Among the Eskimos and whale hunters; arctic voyage of a young German.

Popular edition considerably abridged by the author's brother, was published in 1942 (272 p. col. front. 3 col. plates, fold. map)

Describes the experiences of the author when (a twenty-year-old on his way round the world) he shipped aboard the whaler *Bowhead*; his trip from San Francisco by Bering Strait to Beaufort Sea, Coronation Gulf and Mackenzie River, where he deserted ship and returned by the Mackenzie, Edmonton and Vancouver to San Francisco. Remarks (derogatory) on life aboard the *Bowhead*, whaling in Bering and Beaufort Seas, calls at Nome, Barrow, the winterings at Herschel Island (1903-04), Banks Island (1904-05), visit to winter-quarters of the *Gjoa* expedition at King Point, etc.

The captain of the *Bowhead*, John A. Cook, published his memoirs as *Pursuing the whale*, 1926 (Arctic Bibliography no. 3391)

**Copy seen:** DLC (1916, 1942).

**21732. FABRICIUS-HANSEN, VIBEKE.** Blood groups and MN-types of Eskimos in East Greenland. (Journal of immunology, June 1939. v. 36, p. 523-30)

Contains a report on the first blood-grouping and M-N tests made on 569 pure Eskimos in the Angmagssalik District of East Greenland. The tests were carried out by the author in 1938 as medical inspector for the Greenland Government Office. A sketch is given of the history and present-day life of the Angmagssalik Eskimos distributed over a coastal tract of about 400 km. in length, 67°-64° N. lat., and numbering 708 in 1938. Results of the tests are presented and discussed in relation to studies on races possibly related to Eskimos. Theories on the origin of the Eskimos in East Greenland are also reviewed. Bibliography (21 items). **Copy seen:** DLC.

**21733. FABRICIUS-HANSEN, VIBEKE.** Blood groups and MN-types of Eskimos, 2 (district of Julianehaab, West Greenland). (Journal of immunology, May 1940. v. 38, p. 405-511)

Contains a report on blood grouping of 1063 persons (both pure Eskimos and mixed Greenlanders) in southern Julianehaab District, West Greenland, carried out in summer 1939. An historical sketch is given of the native population of this area in respect to its intermingling with Europeans. The results of the tests are presented, and attention drawn to difference in blood-type distribution of the pure Eskimos and the more mixed Greenlanders. The author's previous observation that a low N-value is a characteristic feature of the Greenland Eskimos is confirmed by the present study. Bibliography (9 items).

**Copy seen:** DLC.

**FABRICIUS-HANSEN, VIBEKE, see also** Cummins, H., & V. Fabricius-Hansen. Dermatoglyphics in Eskimos. 1946. No. 21317.

**21734. FAEGRI, KNUT.** Beitrag zur Kenntnis der Blüten und der Bestäubungsbiologie von *Ophrys muscifera* Huds. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1934, pub. 1935, nr. 14, p. 1-28, illus., plate, text map) **Title tr.:** A contribution to the knowledge of flowers and pollination biology of *Ophrys muscifera* Huds.

Contains a description of the flowers of *Ophrys muscifera* and the study of fertilization biology of this terrestrial orchid which spreads from the south to Nordland, as well as two species of bee, *Gorytes mystaceus* and *Philaena spumaria*, taking part in its pollination.

**Copy seen:** MH-Z.

**21735. FAEGRI, KNUT.** Studies on the Pleistocene of western Norway, IV. On the immigration of *Picea Abies* (L.) Karst. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1949, pub. 1950, nr. 1, p. 1-53, plates 1-5, text maps)

Contains data on the taxonomy of Norway spruce, the age of the spruce in some western localities, the lichenological argumentation (lichens as spruce epiphytes spreading to the Arctic Circle), the position of spruce in relation to the theory of glacial survival, discussion and summary, and a bibliography (75 items).

**Copy seen:** MH-Z.

**21736. FAESSLER, CARL, 1895-** The Labrador peninsula in time and space. (Canadian mining journal, June 1950. v. 71, no. 6, p. 47-50, 2 sketch maps)

Sketch of the geologic history of Labrador and northern Quebec, their present physical features and iron ore deposits discovered on their common border at about 54° N. 67° W. **Copy seen:** DGS

**FAHNESTOCK, M. K., see** Glickman, N., & others. Tolerance of men to cold: high vs. low water-soluble vitamins. 1946. No. 22134.

**FAHNESTOCK, M. K., see also** Keeton, R. W., & others. Tolerance of man to cold: proteins. 1946. No. 23178.

**FAHNESTOCK, M. K., see also** Mitchell, H. H., & others. Tolerance of man to cold: carbohydrate. 1946. No. 24389.

**21737. FALCONER, W. L.** The Charles Camsell Indian hospital. (Arctic circular, Feb.-Mar. 1950. v. 3, p. 17-18)

Note on a 460-bed hospital opened in Edmonton in 1946, primarily for treatment of tuberculosis of Indians and Eskimos of the Northwest Territories, Yukon Territory, northern British Columbia and Alberta; with some statistics on incidence of tuberculosis in Canadian northern natives.

**Copy seen:** CaMAI; DLC.

**21738. FALES, LYNDE.** Learning by seeing. (Alaska's health. Feb. 1949. v. 7, no. 2, p. 4-5)

Description of visual aids to education available through the Alaska Dept. of Health; motion pictures, filmstrips, and posters.

**Copy seen:** DLC.

**21739. FALKENSTRÖM, G.** Beitrag zur festen Begründung einiger Dytisciden-Arten, bzw. zur Absonderung aus dem System anderer dergleichen, unter denen mehrere nur Kreuzungs-Produkte darstellen. (Arkiv för zoologi, 1940. bd. 32 A, no. 18, p. 1-52, illus.) **Title tr.:** A contribution to the critical study of Dytiscidae and especially to the exclusion of some species which are only hybrids.

Contains a critical revision of about 40 forms of predatory aquatic beetles of the fam. Dytiscidae, with synonymy, comparative study, critical notes and data on distribution; seven species are recognized by the author, including *Gaurodytes congener*, *G. bipustulatus*, *G. solieri* (with

22 hybrids) and *G. tarsatus*, all native to Swedish Lapland; bibliography (33 items).

**Copy seen:** DSI-M; MH-Z.

**21740. FALKENSTRÖM, G.** Revision des *Haliplus lineolatus* Mnh. und seiner systematischen Verwandten nebst einigen Neuheiten; eine kritische Darstellung von morphologischen und biologischen Gesichtspunkten aus. (Arkiv för zoologi, 1940. bd. 32 A, no. 6, p. 1-46, illus.)

**Title tr.:** Revision of *Haliplus lineolatus* Mnh. and its systematic relationship with some new species; a critical presentation of some morphological and biological view points.

Contains a critical study of an aquatic coleopter, *Haliplus lineolatus*, of a very difficult *ruficollis* group, with data on taxonomy, morphology and biology of various species of this group, including *H. sahlbergi* n.sp., first described by J. Sahlberg as *H. sibiricus* from Dudinka, northern Krasnoyarsk region, and *H. lindbergi* n.sp. native to Karesuando, northern Sweden and the Pechenga (Petsamo) region. Bibliography (24 items).

**Copy seen:** DSI-M; MH-Z.

**21741. FARMER, H. W.** The search for the blue goose. (Forest and outdoors, 1946. v. 42, p. 175-76, 184, illus.)

Contains account of J. D. Soper's discovery in 1929, of the breeding grounds of the blue goose (and the lesser snow goose) in the tundra near Foxe Basin, west coast of Baffin Island. Mr. Soper started the search in 1923, visited Greenland, Ellesmere, North Devon, etc., and covered some 7000 miles in his search. See also *Arctic Bibliography* No. 16521 for his own report.

**Copy seen:** DA.

**21742. FARQUHAR, FRANCIS PELOUBET, 1887-** . Bradford Washburn's photographs of Mount McKinley. (Sierra Club bulletin, June 1950. v. 35, no. 6, p. 28, 12 plates)

Brief note accompanying 12 photographs taken from the air.

**Copy seen:** DGS.

**21743. FARQUHAR, FRANCIS PELOUBET, 1887-** . The exploration and first ascents of Mount McKinley. (Sierra Club bulletin, June 1949 and June 1950: v. 34, no. 6, p. 95-109, 4 plates; v. 35, no. 6, p. 20-27)

Statement of facts, drawn from records (published and unpublished) relating to the exploration and climbs of Mt. McKinley, Alaska, in 1906, 1910, 1912 and

1913, including the exploits of Dr. F. A. Cook, Prof. H. C. Parker, Belmore Browne, H. P. Karstens, Hudson Stuck, and others; with a bibliography ("only the principal sources": 18 items).

**Copy seen:** DGS.

**21744. FAURE, J. L.** Au Groënland avec Charcot. [Paris], Flammarion [1933]. 248 p., 1 l., illus. (maps), plates, ports.

**Title tr.:** To Greenland with Charcot.

Narrative of the author's trip on the *Pourquoi-Pas?* July-Aug. 1932, with note of the Second International Polar Year program; the voyage from St. Malo to Scoresby Sound; the party's sojourn there (p. 95-173) with description of Eskimos and their life; work of Danish officials; settlement on Rosenvinge Bay (where the French Polar Year station was located); physical characteristics of the region, etc.; and return voyage to Brest.

**Copy seen:** DLC.

**21745. FAUVEL, PIERRE LOUIS ANDRÉ, 1866-** . Annélides polychètes non pélagiques provenant des campagnes de l'*Hirondelle* et de la *Princesse-Alice* (1885-1910). Monaco, 1914. 4 p. l., 432 p., 31 plates (part col.). (Résultats des campagnes scientifiques accomplies sur son yacht par Albert 1er Prince de Monaco. Fasc. 46) **Title tr.:** Non-pelagic polychaetous annelids resulting from cruises of the *Hirondelle* and *Princesse-Alice*, 1885-1910.

Contains classified list with some descriptions, depths, localities and discussion of distribution of nearly 300 species of sedentary polychaetes, of which 65 were found in Svalbard waters, 1898-99 and 1906-1907.

**Copy seen:** DLC.

**21746. FAUVEL, PIERRE LOUIS ANDRÉ, 1866-** . Annélides polychètes pélagiques provenant des campagnes des yachts *Hirondelle* et *Princesse-Alice* (1885-1910). Monaco, 1916. 3 p. l., 152 p., 9 plates. (Résultats des campagnes scientifiques accomplies sur son yacht par Albert 1er Prince de Monaco. Fasc. 48) **Title tr.:** Pelagic polychaetous annelids resulting from the cruises of the yachts *Hirondelle* and *Princesse-Alice*, 1885-1910.

Memoir on the geographic distribution of over 70 species, of which only one (*Autolytus prismaticus*) was collected in arctic waters, at the surface of King Bay, West Spitsbergen, 1906.

**Copy seen:** DLC.

**21747. FAUVEL, PIERRE LOUIS ANDRÉ, 1866-** . Campagne du *Pourquoi-pas?* (Islande et Jan Mayen, 1912). Annélides polychètes. (Paris. Muséum national d'histoire naturelle. Bulletin, 1913. t. 19, p. 80-93, illus.) **Title tr.:** Cruise of the *Pourquoi-Pas?* (Iceland and Jan Mayen, 1912). Polychaetous annelids.

*Contains* annotated list of 30 species of polychaete worms, all but one of which were collected in Greenland Sea or Denmark Strait; with station list showing position, depth, type of bottom and species collected. **Copy seen:** DSI-M.

**21748. FEDCHENKO, OL'GA ALEKSANDROVNA, 1845-1920.** Material k florii Arkhangel'skoï gubernii. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1897, pub. 1898. Novaiâ seriia, t. 11, p. 469-83) **Title tr.:** Materials for the flora of Arkhangel'sk government.

*Contains* a systematic list of 171 species of phanerogams and cryptogams collected in 1896 by A. P. Ivanov in the Pechora River region, and by V. F. Kapel'kin on Kheynya-Sari (Aynov) Island (69°50'N. 31°34'E.) and in the Pechenga Bay region (69°40'N. 31°E.), Murman coast, Kola Peninsula.

**Copy seen:** DLC; MH-A.

**21749. FEDÛSHIN, ANATOLIÛ VLADIMIROVICH.** Vostochno-palearkticheskie formy chernogolovoi gaichki (*Parus atricapillus* L.) s tochki zreniia klimaticheskogo ortogeneza. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1930. t. 31. vyp. 3-4, p. 529-52, illus., text map) **Title tr.:** Eastern palaearctic forms of the blackcapped titmouse (*Parus atricapillus* L.) from the viewpoint of orthogenesis due to climate.

*Contains* a critical study of eight palaearctic forms of *Parus atricapillus*, including *P. a. lönnbergi*, a bird native to the Kola Peninsula and the Arkhangel'sk region, and *P. a. kamschatkensis* from Kamchatka. Biological variations resulting of climatic variations and influencing the coloring of the birds' feathers, are presented. Bibliography (31 items). **Copy seen:** DLC; MH-Z.

**21750. FEDOROV, EVGENIÛ KONSTANTINOVICH, 1910-** . Geophysical and astronomical observations. (Aka-

demiia nauk SSSR. Comptes rendus (Doklady), 1938. nouv. ser., v. 19, no. 8, p. 581-87, tables)

*Preliminary report of the Soviet North Pole Ice-floe Drifting Expedition May 1937-Feb. 1938, covering observations on air temperature, terrestrial magnetism, aurora borealis, atmospheric electricity, gravity and astronomical determinations.*

**Copy seen:** DLC.

**21751. FEDOROV, EVGRAF STEPANOVICH, 1853-1929.** Kratkoe soobshchenie o rezul'tatakh mineralogicheskogo i petrograficheskogo izsledovaniia beregov Bielaia moria. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1903. Ser. 2, chast' 40, vyp. 2, p. 211-20) **Title tr.:** A brief report on the results of a mineralogical and petrographic investigation of the coast of the White Sea.

*Contains* a preliminary report on mineralogical content and petrographic structure of the rocks on the southern (Karelian) and northern (Kibirinsk) coast of Kandalaksha Bay (White Sea), based on more than 500 optical determinations of the collected material. The metamorphosis of the rocks on the southern coast was found to be much more pronounced than that on the northern coast.

**Copy seen:** MH-Z.

**21752. FEDOTOV, D. M.** K faune paukov Murmana i Novoi Zemli. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1911, pub. 1912. t. 16, p. 449-74, plate) **Title tr.:** On the spider fauna of the Murman coast and Novaya Zemlya.

*Contains* a classified list, with synonyms and localities of 43 species of spiders, most of which are recorded from the Kola Peninsula (1910), with a few from Novaya Zemlya (1907). Bibliography (16 items). **Copy seen:** DLC.

**21753. FEDOTOV, D. M.** Ob izmenchivosti sovremennykh peleispod v sviazi s izucheniem iskopaemykh form. (Akademiia nauk SSSR. Paleontologicheskii institut. Trudy, 1932. t. 2, p. 1-16, 3 plates) **Title tr.:** On variability of recent Peleceypoda in connection with the study of fossil forms.

*Contains* a conchological study of variability of the shells of certain molluscs, especially a marine pelecypod, *Chlamys islandica*, common on the Murman coast; a comparison with fossil forms, and notes

on variability of some other forms.  
Summary in German.

**Copied seen:** MH-Z.

**FEDYNSKIĬ, V. V.,** see Molodenskiĭ, M. S., & V. V. Fedynskiĭ. *Tridtsat' let Sovetskoi gravimetrii.* 1947. No. 24431.

**FELDEN, HENRY WEMYSS, 1838-1921,** see McLachlan, R. Report Insecta Arctic Exped. 1879. No. 24095.

**FELDEN, HENRY WEMYSS, 1838-1921,** see also Pearson, H. J. "Beyond Petsora eastward." 1899. No. 25015.

**FELDMAN, J.,** see Gellhorn, E., & J. Feldman. Influence cold & heat on adrenal systems. 1941. No. 22055.

**21754. FELDT, ROBERT H., and D. E. W. WENSTRAND.** The cold-pressor test in subjects with normal blood pressure; report of observations on 350 subjects, with special reference to the family history. (American heart journal, June 1942. v. 23, p. 766-71)

Contains a study on reactivity to the cold-pressor test on subjects selected at random. 29.7 percent were found to be hyperreactors to the test; 27.4 percent had a family history of hypersensitive cardiovascular disease but there was no relationship between the response to the test and the family history. Bibliography (6 items).  
**Copied seen:** DLC.

**FELINSKA, see Globus.** Jahr zu Beresof. 1883. No. 22139.

**21755. FELL, EGBERT H., and R. HANSELMAN.** Prevention of shock and death by immediate application of a pressure dressing to the severely frozen limbs of dogs; an experimental study. (Annals of surgery, May 1943. v. 117, no. 5, p. 686-91, 2 fig.)

Contains a report on the blood condition and treatment of severe experimental frostbite in dogs; "immediate, careful application of pressure dressings (plaster encasement) prevented shock and death of five dogs"; four out of five untreated dogs died within 13 hours. Bibliography (15 items). Abstract by D. P. Cuthbertson, in *Bulletin of war medicine*, Feb. 1944. v. 4, no. 6, p. 327.

**Copied seen:** DLC.

**21756. FELLGETT, P. B.** Generation of electricity by wind power. (Polar

record, July 1952. v. 6, no. 44, p. 535-37)

Contains a note on recent developments in wind power generators in Great Britain, Soviet Arctic and a report of the Hudson's Bay Co. on the performance of these generators in the Arctic during the last 5-10 years. **Copied seen:** CaMAI; DLC.

**21757. FELLMAN, NILS ISAK, 1841-1919.** Plantae vasculares in Lapponia Orientali sponte nascentes. (Societas pro fauna et flora fennica. Notiser ur förhandlingar 1882. Häft. 8 (Ny serie, Häft. 5) p. i-lxx, 1-99, map) **Title tr.:** Vascular plants growing spontaneously in eastern Lapland.

Contains in the first part of this work (p. i-lxx) an historical survey of the botanical study of eastern Lapland (Kola Peninsula) with bibliographical footnotes; a general description of the vegetation according to phytogeographic regions (regio sylvatica, subalpina, alpina & maritima); a statistical table of species distribution in families and in phytogeographic regions; and a critical survey of 31 species of flowering plants. In the second part, is a systematic list of 489 species of flowering plants and 28 vascular cryptogams collected by the author in 1861, with data on distribution and occasional critical notes. Preliminary issues of pt. 1 (lxx p.) and pt. 2 (99 p.) were published in 1869 and 1864 respectively.  
**Copied seen:** MH-Z.

**21758. FELLOWS, F. S.** Mortality in the native races of the Territory of Alaska, with special reference to tuberculosis. (Public health reports, 1934. v. 49, p. 289-98, map, tables, diagrs.)

Contains an account of: death-recording in Alaska and its unsatisfactory state at the time of author's work (since 1931) and prior to it; the population (white and native); percentage of native death; total deaths and death-rates by race and judicial division; causes of death (white and native), analysis of death causes and percentage of deaths due to each cause. An analysis of deaths due to tuberculosis follows, with data on natives and whites, males and females, and comparisons with figures from the U.S.

**Copied seen:** DSG; NNN.

**FELLOWS, ROBERT ELLSWORTH, 1917-1949,** see Moffit, F. H., & R. E. Fellows. Copper deposits Prince William Id. 1950. No. 24413.

**21759. FELS, EDWIN.** Erich von Drygalski, 9.2.1865-10.1.1949. (Erde, 1949. Heft 1, p. 66-69, illus.)

Notes Drygalski's work particularly in polar regions, his honors, etc., and lists his publications 1935-49, with reference to earlier record of those of 1885-1934.

**Copy seen:** CaMAL.

**21760. FENCKER, HANNIBAL.** Den grønlandske blisgås (*Anser albifrons flavirostris* Scott & Dalgety) og dens ynglebiologi. (Dansk ornithologisk forening. Tidsskrift, Apr. 1950. Aarg. 44, p. 61-65) **Title tr.:** The Greenland white-fronted goose (*Anser albifrons flavirostris* Scott & Dalgety) and its breeding-biology.

Contains notes on seasonal appearance, nesting egg-laying, brooding, moulting and coloring of a goose hitherto observed in Jakobshavn District (70°06' N. 52°08' W.) but now under ameliorating climatic conditions, extending northward to southern Upernavik District. Summary in English.

**Copy seen:** DSI-M.

**21761. FENNER, CLARENCE NORMAN, 1870-1949.** The chemical kinetics of the Katmai eruption, part I-II. (American journal of science, Sept.-Oct. 1950. v. 248, p. 593-627, 697-725, 4 plates, map)

Discussion occasioned by skepticism among geologists, of the author's earlier writings on pumices ejected in the Katmai eruption, 1912. Fenner here explores "the possibilities of exothermic reactions in the magma," and indicates "the large quantities of heat that may be developed," gives detailed descriptions of the field relations, petrography, and chemistry of the pumices, also comparisons with effects in other volcanic eruptions. Bibliography (22 items).

**Copy seen:** DGS; DLC.

**21762. FERDINANDSEN, CARL CHRISTIAN FREDERIK, 1879-1944, and Ø. WINGE.** Mycological notes II. (Botanisk tidsskrift, 1909. Bd. 29, hefte 3, p. 305-319, illus.)

Contains (in part "B" of this paper, *Three new foreign species*) a Latin diagnosis of *Ophiolobus rostrupii*, a new fungus from Unalaska, Aleutian Islands.

**Copy seen:** DLC; MH-A.

**21763. FERNALD, MERRITT LYN-DON, 1873-1950.** Some North American Corylaceae (Betulaceae) I. Notes on *Betula* in eastern North America. Con-

tributions from the Gray Herbarium of Harvard University, No. 159. (Rhodora, 1945. v. 47, no. 562, p. 303-329, plates 963-75)

Contains a critical revision of birches of eastern North America, with synonyms, keys, descriptions of new forms, critical notes, lists of specimens and data on geographical distribution. Includes some species native to Labrador, northern Quebec and northern Ontario. The second part of this paper (Eastern North American representatives of *Alnus incana*) does not contain arctic material.

**Copy seen:** MH-A.

**FERRIS, B. G.,** see Forster, R. E., & others. Relationship heat exchange & blood flow. 1946. No. 21891.

**21764. FERRIS, BENJAMIN GREE- LY, Jr.** A new ascent in the Hayes Range. (American alpine journal, 1942. v. 4, p. 335-40, plate, sketch map)

Account of approach and climb of an unnamed peak (13,000 ft.) about 63°33'30" N. 146°24' W., accomplished on Aug. 12, 1941, by the author, S. Hendricks, and W. Shand.

**Copy seen:** DGS.

**21765. FERSMAN, ALEKSANDR EVGEN'EVICH, 1883-1945.** Apatite-nefelinovaa problema Khibinskikh tundr; po dannym rabot i issledovanii na 15-oe oktiabrâ 1929 goda. Leningrad, Nauch. Khim.-tekhn. izd-vo, 1929. 95 p., 17 plates, maps (part fold.). (Materialy po khimizatsii narodnogo khoziaistva SSSR, vyp. 5). **Title tr.:** The apatite-nepheline problems of the Khibiny tundras: based on work and research done up to October 15, 1929.

Contains chapters on the distribution of phosphorus compounds in nature, their role in the national economy; the Khibiny tundras; the discovery of apatite; the apatite-nepheline problem and the future of Khibiny. Bibliography (19 items).

**Copy seen:** DLC.

**21766. FERSMAN, ALEKSANDR EVGEN'EVICH, 1883-1945.** Geochemistry and mineralogy of polar regions. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1938, nouv. ser., v. 19, no. 8, p. 619-23)

Contains sketch of geochemical and geological processes peculiar to polar regions; and a few typical and interesting minerals: ice, hydrohalite, sodium chloride, sulphur, iron and manganese hy-

drates, diatonite, rivianite, guano, "White Sea corner-stones." *Copy seen:* DLC.

**21767. FERSMAN, ALEKSANDR EVGEN'EVICH, 1883-1945.** Geokhimi-cheskaiā diagramma Khibinskikh tundr. (Akademiā nauk SSSR. Doklady, Seriiā A, 1931, no. 8, p. 193-98) *Title tr.:* Geochemical diagram of Khibiny tundras.

*Copy seen:* DLC.

**21768. FERSMAN, ALEKSANDR EVGEN'EVICH, 1883-1945.** Geokhimi-cheskie dugi Khibinskikh tundr. (Akademiā nauk SSSR. Doklady, Seriiā A, 1931, no. 14, p. 367-76) *Title tr.:* Geochemical arcs of the Khibiny tundras.

*Copy seen:* DLC.

**21769. FERSMAN, ALEKSANDR EVGEN'EVICH, 1883-1945.** K geokhimii shchelochnykh magm. (Akademiā nauk SSSR. Izvestiia, seriiā 7 Otdelenie matematicheskikh i estestvennykh nauk, 1935, no. 10, p. 1419-24) *Title tr.:* On the geochemistry of alkaline magmas.

Contains chemical analyses and a study of peculiar crystallization of some nepheline rocks occurring in Khibiny tundras of Kola Peninsula. Summary in English.

*Copy seen:* MH.

**21770. FERSMAN, ALEKSANDR EVGEN'EVICH, 1883-1945.** Novyi promyshlennyi tsentr SSSR za Pol'arnym krugom: khibinskii apatit. Leningrad, 1931. 54, [2] p., illus., maps (part fold.) *Title tr.:* A new industrial center of the U.S.S.R. above the Arctic Circle: Khibiny apatite.

Author notes lack of knowledge of the area and its resources until recently, and the great achievements resulting from its scientific investigation. He offers a plan for development of the Khibiny apatite deposit region around Kirovsk under the following heads: mining centers; power centers; chemical combines, village and town building; communications; cultural development.

*Copy seen:* DLC.

**21771. FERSMAN, ALEKSANDR EVGEN'EVICH, 1883-1945.** Sravnitel'nyi ocherk geokhimii Khibinskogo i Moncha-kompleksa. (Akademiā nauk SSSR. Doklady, seriiā A, 1932, no. 6, p. 133-38, tables) *Title tr.:* A comparative outline of the geochemistry of the Khibiny and Moncha complexes.

*Copy seen:* DLC.

**FERSMAN, ALEKSANDR EVGEN'EVICH, 1883-1945,** see also Akademiā nauk SSSR. Khibinskaiā gornaiā stantsiā. Khibinskaiā gornaiā stantsiā. 1934. No. 20100.

**FERSMAN, ALEKSANDR EVGEN'EVICH, 1883-1945,** see also Akademiā nauk SSSR. Kol'skaiā baza. Materialy k geokhimii Khibinskikh tundr. 1935. No. 20101.

**21772. FESENKOV, VASILII GRIGOREVICH, 1889-** Astrophysique au pôle nord. (Akademiā nauk SSSR. Comptes rendus (Doklady), 1938. nouv. ser., v. 19, no. 8, p. 605-606) *Title tr.:* Astrophysics at the North Pole.

*Copy seen:* DLC.

**FESENKOFF, B. G.,** see Fesenkoff, Vasilii Grigor'evich, 1889-

**21773. FESTSCHRIFT HERRN PROFESSOR DR. J. A. PALMÉN** zu seinem 60. Geburtstage am 7. November 1905 gewidmet von Schülern und Kollegen. Helsingfors, 1905-1907, pub. 1907. 2 v. (18 nos.). (Herausgegeben mit Unterstützung der K. Alexander Universität in Helsingfors, der Societas Scientiarum Fenniae und der Societas pro fauna et flora fennica. *Title tr.:* Jubilee volume to honor Prof. Dr. J. A. Palmén on the occasion of his 60th birthday, November 7, 1905, by his pupils and colleagues.

*Contents (tr.)* include two papers on the North, each of which appears in this Bibliography under its author's name:

No. 11, LEVANDER, K. M. A contribution to the knowledge of plankton of some inland lakes in Russian Lapland.

No. 12, POPPIUS, B. R. Coleoptera of the Kola Peninsula and Inari Lappmark.

*Copy seen:* MH-Z.

**21774. FESTSCHRIFT ZUM 60. GEBURTSTAGE VON PROFESSOR DR. EMBRIK STRAND,** enthaltend 194 dem Jubilar gewidmete Arbeiten von 126 ausländischen Zoologen und Paläontologen aus 25 verschiedenen Ländern aller 5 Weltteile. Riga, 1936-39. 5 v. (1 pub. 1936, 644 p.; 2, Heft 1-2, pub. 1936-37, 652 p.; 3 pub. 1937, 608 p.; 4 pub. 1938, 784 p.; 5 pub. 1939, 750 p.) 687 fig., 104 plates in the 5 v. *Title tr.:* Jubilee publication on the occasion of the 60th birthday of Prof. Dr. Embrik Strand, containing 194 papers by 126 foreign zoologists and paleontologists from 25 various countries of five continents.

Contains a collection of zoological, entomological and paleontological papers international in scope, among them the following (titles translated) dealing with arctic regions; each of these eight papers appears in this bibliography under the name of its author.

ALLGEN, C. A. J. Species of the genus *Odontophora*. Bd. 2 (1936), p. 219-24.

ALLGEN, C. A. J. Genus *Algeniella* E. Strand. Bd. 2 (1936), p. 227-29.

BLAUVELT, H. H. Comparative morphology of *Linyphia*. Bd. 2 (1936), p. 81-171.

REDIKORTSEV, V. V. New Ascidae from the Far East. Bd. 3 (1937), p. 122-27.

SPÁČEK, K. 60 years of the life of Prof. Dr. E. Strand. Bd. 5 (1939), p. 1-55.

SPÁČEK, K. On geographic distribution of *Calopus serraticornis*. Bd. 2 (1937), p. 355-62.

WAGNER, H. Forms belonging to Limacinae. Bd. 2 (1937), p. 373-90.

ZIRNGIEBL, L. New or little known Tenthredinoidea. Bd. 3 (1937), p. 335-50.

**Copy seen:** DSI-M; MH-Z.

21775. FETCHER, E. S., and others. The physiological basis for the internal ventilation of clothing. (Federation proceedings, Mar. 1948. v. 7, p. 33) Other authors: S. I. Rapaport, and J. F. Hall.

Contains a note on a "ventilating harness" which can maintain temperature of the "personal environment" constant over a wide range of ambient temperatures "by blowing air under clothing and near the skin."

**Copy seen:** DLC.

FETCHER, E. S., see Rapaport, S. I., & others. Control of blood flow to extremities. 1949. No. 25363.

FETCHER, E. S., see Rapaport, S. I., & others. Physiological protection extremities from severe cold. 1948. No. 25364.

21776. FEYLING-HANSEN, ROLF W. Changes of sea-level in West Spitsbergen: a new interpretation. (Geographical journal, Mar. 1950. v. 115, p. 88-92)

Contains criticism of W. G. V. Balchin's interpretation of the shoreline features in Billefjord (Klaas Billen Bay) as presented in his *The raised features of Billefjord and Sassenfjord, West Spitsbergen*, 1941 (see Arctic Bibliography, No. 1005); with a reply by Balchin.

**Copy seen:** DGS; DLC.

21777. FEYLING-HANSEN, ROLF W., and F. A. JØRSTAD. Quaternary fossils from the Sassen-area in Isfjorden, West-Spitsbergen (the marine mollusc fauna). Oslo, J. Dybwad, 1950. 85 p., illus., fold. map, tables, diagrs. (Norsk polarinstitutt. Skrifter nr. 94)

Contains result of observations in the Sassenfjord region during the Norwegian Svalbard Expedition, 1948, by two members of the Upsala University Paleontological Institute: description of the fossils from sand-gravel-shingle material and clay-silt material found in raised beaches; characterization of the localities showing raised morphologic features, fossil complexes, local development of the faunas, terrace measurements, and fossil horizons within sequence of raised beaches; some remarks on ancient driftwood and whole vertebra. Includes in the systematic section, remarks on 55 molluscan species collected, and a tabular enumeration of the 84 Quaternary molluscan species known to have been found on Svalbard; with a bibliography (53 items).

**Copy seen:** DGS.

21778. FIEBER, FRANZ XAVIER, 1807-1872. Die Gattung *Ophthalmicus*, monographisch nach der analytischen Methode bearbeitet. (Wiener entomologische Zeitung, 1861. Bd. 5, nr. 9, p. 266-85) **Title tr.:** Monographic and analytical study of the genus *Ophthalmicus*.

Contains a monographic treatment of the bugs of the hemipterous genus *Ophthalmicus* with a key and description of 37 species, including *O. lapponicus* native to Swedish Lapland.

**Copy seen:** MH-Z.

21779. FIELD, D. S. M. Arctic gems. (Gemmologist, Aug. 1950. v. 19, p. 177-79)

Contains notes on mineral specimens from Canadian localities: Baffin Island, Garnet Island (66°12' N. 84°47' W.) and MacDonald Island (63°42' N. 72°40' W.).

**Copy seen:** DGS.

21780. FIELD, D. S. M. Diamond pipes in Canada. (Canadian mining journal, July 1950. v. 71, no. 7, p. 54-57. illus.)

Popular discussion of the possibility of discovering diamonds in Canada, involving the extent of Pleistocene glaciation, and glacial geology of the Canadian Shield.

**Copy seen:** DGS.

21781. FIELD, JOHN, 2d, and VICTOR E. HALL. Physiological effects of heat

and cold. (Annual review of physiology, 1944. v. 6, p. 69-94)

A review article covering chiefly papers published in the U. S. A. and Great Britain between Aug. 1, 1942 and Aug. 1, 1943. It deals with the effect of temperature on excised tissues and on intact animals; with temperature regulation; hypothermia; hyperthermia. Bibliography (129 items). *Copy seen:* DSG.

**21782. FIELD, WILLIAM OSGOOD, Jr.** A gazetteer of Alaskan glaciers. (American Geophysical Union. Transactions, Aug. 1941. v. 22, pt. 3 (Papers, hydrology), p. 796-99)

"The preparation of a gazetteer of Alaskan glaciers by the Am. Geographical Soc., the Committee on Glaciers of the Am. Geophys. Union and the Intern. Commission on Snow and Ice is reported, which will list and describe the glaciers of Alaska and northwest Canada. Each glacier will be described according to size, direction of flow, area at different elevations, gradient, relationship to other glaciers, and the characteristics of its terminus. Each glacier will be given an identification number based on the latitude and longitude of its terminus."—SIPRE. *Copy seen:* DLC.

**21783. FIELD, WILLIAM OSGOOD, Jr. and CALVIN J. HEUSSER.** Glaciers, historians of climate. (Geographical review, July 1952. v. 42, p. 337-45, illus.)

Contains a note on the Juneau Ice Field Research Project, launched in 1948 for the study of the physical character of the glaciers, the mechanics of ice deformation and glacier regimen, also to gather relevant meteorological, geophysical and biological data. 15 photographs, the majority in color, illustrate aspects of the work, the camp and surroundings, research station, etc. *Copy seen:* DLC.

**21784. FIELD, WILLIAM OSGOOD, Jr.** Glaciological research in Alaska. (In: Alaskan Science Conference . . . 1950. Selected papers, 1952. p. 123-35)

Contains remarks on the study, area and place of Alaskan glaciers among those of the world; the last glacial period in Alaska; outstanding studies and students of Alaskan glaciology; the "new era" of current investigations along three distinct lines (characterized), due to activities since 1948 of the Arctic Institute of North America, the American

Geographical Society and several U. S. government agencies; relation of glaciology to geology, climatology and other fields. Bibliography (62 items).

*Copy seen:* DAI; DLC.

**21785. FIELD, WILLIAM OSGOOD, Jr., and M. M. MILLER.** The Juneau Ice Field Research Project. (Geographical review, Apr. 1950. v. 40, p. 179-90, incl. 4 p. of illus.)

"An experimental program of glaciological studies was initiated in 1948 by the Amer. Geographical Soc. aided by a contract with the Office of Naval Research. Two receding and 2 advancing glaciers flowing into the Taku River Valley originate in the Juneau Ice Field, making integrated research and analysis of a large glacier system possible. A field laboratory was established in the center of the ice field at an elevation of 4100 ft. Accomplishments of the 1949 expedition include: (1) studies of meteorological conditions and solar radiation at high and low levels, (2) gathering of accumulation and ablation data together with measurements of ice movements, (3) examination of the geology and botany of nunataks including the compilation of a detailed map of the area, and (4) experiments with physical properties of ice."—SIPRE. *Copy seen:* DLC.

**21786. FIELD, WILLIAM OSGOOD, Jr.** Report on the northern American glaciers. (International Geodetic and Geophysical Union. Association of Scientific Hydrology. General Assembly, Brussels 1951, t. 1, p. 120-28, table)

Presented by P. D. Baird.

Contains a review of conditions of the glaciers of the American Rocky Mts., Cascades, Sierra Nevada and (p. 121-27) of Alaska; observations cover 2-10 or more preceding years; the factors causing recess, advance and other conditions of the glaciers are briefly noted.

*Copy seen:* CaMAI.

**21787. FIELD, WILLIAM OSGOOD, Jr.** The variations of Alaskan glaciers 1935-1947. (International Geodetic and Geophysical Union. Association of Scientific Hydrology. Assemblée générale d'Oslo, 1948. Procès-verbaux des séances. t. 2. Travaux de la Commission de la Neige et des Glaciers, pub. 1950? p. 277-82)

Report is based on a few detailed studies of terminal portions of some glaciers and on many aerial photographs. It cites the recession of most, and oscil-

lations of several glaciers, (in order) from southeastern Alaska around the coast to south-central Alaska, and east-to-west along the interior ranges.

**Copy seen:** DGS.

**FIELD, WILLIAM OSGOOD, Jr.,** *see also* American Geographical Society, N. Y. Readings in the geography of N. America. 1952. No. 20178.

**FIELD, WILLIAM OSGOOD, Jr.,** *see also* Miller, M. M., & W. O. Field. Exploring Juneau ice cap. 1951. No. 24358.

**21788. FILATOVA, Z. A.** Nekotorye zoogeograficheskie osobennosti dvustvorchatykh molluskov iz roda *Portlandia*. (Akademii nauk SSSR. Institut okeanologii. Trudy, 1951. t. 6, p. 117-31, illus., diagrs., maps) **Title tr.:** Some zoogeographical peculiarities of bivalve molluscs of the genus *Portlandia*.

*Contains* a zoogeographical and geologico-historical study of two arctic species (1) *Portlandia arctica* (Gray), and (2) *Portlandia aestuariorum* Mossewitsch. Their morphology, present horizontal and vertical distribution, ecology, biology, etc., is presented with due consideration of subspecies. The genus *Portlandia* appears to be composed of these two species, of which the first one is historically the older, and also the more common. Bibliography (11 items).

**Copy seen:** DLC.

**FIL'D, ANDREĬ ANDREEVICH,** *see* Ershov, N. G., & A. A. Fil'd. Katalog cheshuekrylykh. 1867. No. 21704.

**21789. FILIP'EV, IVAN NIKOLAEVICH.** Svobodnozhivushchiia nematody kollektsii Zoologicheskago muzeia Imp. Akademii nauk. (Akademii nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1916 pub, 1917. t. 21, p. 59-116, illus., plates 4-5) **Title tr.:** Free-living nematodes in the collection of the Zoological Museum of the Imperial Academy of Sciences.

*Contains* a critical revision of 15 species of marine roundworms of the class Nematoda, native to Murman coastal waters and Bering Sea (Bering Island), with descriptions of two new genera and seven new species, measurements, synonymy, critical notes and data on distribution. **Copy seen:** MH-Z.

**21790. FILIPEV, NIKOLAI NIKOLAEVICH, 1889-1937.** Lepidopterologicheskie zametki XVII. Nekotorye

*Cnephasia* Venskogo estestvenno-istoricheskogo muzeia. (Akademii nauk SSSR. Izvestiia, seriia 7, Otdelenie matematicheskikh i estestvennykh nauk, 1934, no. 9, p. 1403-1409) **Title tr.:** Notes on Lepidoptera XVII. Some *Cnephasia* of the Museum of Natural History at Vienna.

*Contains* critical notes on six species of lepidoptera in this collection, including *Cnephasia hogosi* native to Greenland and all regions of arctic Siberia.

**Copy seen:** MH.

**FILIPPOV, IŬ. F.,** *see* Gol'farkin, F. E., & IŬ. F. Filippov. Olenevodstvo Sakhalina. 1950. No. 22157.

**21791. FINDEISEN, HANS.** Die Herkunft der Urbevölkerung Nordamerikas. (Kosmos, Juni 1951. Jahrg. 47, p. 273-76, illus., map) **Title tr.:** The origin of the first people to inhabit North America.

Review of 20th century opinion and traces of Folsom culture found recently in Alaska, pointing to an ingress of northern Asiatic hunting tribes of the middle and late stone age. Author notes the conflicting opinions and archeologic finds which indicate mid-Asiatic and southwest Pacific influences on the West Coast of the United States. **Copy seen:** DLC.

**21792. FINDEISEN, HANS.** Spiritistisch-mediumistische Grundlagen des nordasiatischen Schamanismus. Augsburg, 1949. 5 p., illus. (Okkulte Welt, 1949, no. 2) Separately reprinted as Abhandlungen und Aufsätze aus dem Institut für Menschen- und Menschheitskunde No. 2. **Title tr.:** The spiritist medium-like foundation of northern Asiatic shamanism.

The author gives a brief review of theories attempting to explain the origin of shamanism. He seems inclined to believe the effects of the shaman's performances are not mere trickeries, but rather are similar to phenomena associated with the medium's role in the spiritualistic seances among the civilized.

**Copy seen:** CaMAL.

**21793. FINLAND. HAVSFORSKNINGSINSTITUTET.** (Merentutkimuslaitos). Vuorovesitaulukko (Gezeitentafeln) Liinahamari . . . (Lat. 69°38.5' N. Long. 31° 22' E.). Helsinki, 1935-43. 16 p., tables. **Title tr.:** Tide tables for Liinahamari . . . (Lat. 69°38.5' N. Long. 31°22' E.)

Tables for high and low tides for this harbor of Petsamo (Pechenga) with explanatory matter in Finnish and German. *Copy seen:* DLC (1942, 1944); DN-HO (1936).

**21794. FINLAND. HYDROGRAFINEN TOIMISTO.** Suomen tärkeimpien koskien luettelo sisältävä niiden pituudet, putouksorkeudet vesimäärät ja vesivoimat. Förteckning öfver Finlands viktigare forsar jämte deras längd, fallhöjd, vattenmängd och vattenkraft. Helsingfors, 1911. 2, 79 p., fold. map, tables. (Finland. Hydrografen Toimisto. Vuosikirja, 1, pub. as: Fennia, 31:3) *Title tr.:* List of the most important rapids in Finland noting their length, drop in elevation, amount of water and water power.

Contains tabulated data on 1,962 rapids (indicated on map), including those on Tornio and Kemi Rivers in the northern part of the country. Introduction (also title: *Verzeichnis der wichtigsten Stromschnellen Finlands . . .*) is given in German; introduction and table captions in Finnish and Swedish.

*Copy seen:* DLC.

**21795. FINLAND. ILMATIETEELINEN KESKUSLAITOS.** Aerologiset havainnot. Die aerologischen Beobachtungen in den Jahren 1944-1947. [Helsinki] 1951. 147, 97 p. (tables). (Finland. Ilmatieteellinen Keskuslaitos. Suomen Meteorologinen Vuosikirja, v. 44/45-46/47, pt. 3, 1944-1947). In Finnish and German. *Title tr.:* Aerological observations, 1944-1947.

"Data sources were the central meteorological institution for Finland and the defense authority. Tables show the heights of the different isobaric surfaces and the temperature and relative humidity at each level for various radiosonde stations. Number and average height of ascents during different months are recorded. Upper air wind velocity observations were made with radiosondes and pibals. The numbers of wind observations by months are included." *Meteorological abstracts and bibliography*, Nov. 1952, v. 3, no. 11, p. 1132-33.

*Copy seen:* DWB.

**21796. FINLAND. ILMATIETEELINEN KESKUSLAITOS.** Aerologiset havainnot Suomesta. Helsinki, Januar 1952—in progress. [no. p.] Entirely data, in Finnish and Swedish, first issue, Jan. 1952, pub. Mar. 10, 1952.

"Results of twice-daily radiosonde observations made at two stations in Finland (Ilmala 60° N. and Sodankylä 67° N.) in Jan. 1952 according to temperature and Pilot Code. Wind aloft observations were made by following radiosonde balloon with theodolite. No summary is provided but observations are checked before being published after end of each month."—*Meteorological abstracts and bibliography*, Nov. 1952, v. 3, no. 11, p. 1133. *Copy seen:* DWB.

**21797. FINLAND. ILMATIETEELINEN KESKUSLAITOS.** Lumijäähavainto-ohjeet. (Its: Ohjryy js yrfonsnyo, 1943. no. 6, p. 5-21, diagrs., table) *Title tr.:* Snow and ice observation guide.

"The methods of measuring snow depth and density, observing the quality of snow cover, recording the first and last observations of snow, and measuring frost penetration are presented. Instructions for reporting information on local road conditions and measuring ice thickness on inland lakes and streams are included. Snow depth is usually measured with a calibrated wooden rod pressed into the snow until the 0 point is level with the ground surface. Snow density is measured by a cylindrical metal gage, 50 cm. long, which is pressed into the snow. The depth of snow can be read by a scale marked on the outer surface of the cylinder. A shovel is used to lift the cylinder with its snow content. The cylinder is inverted and hooked to the scales. The scales consist of a 48 cm. long brass pipe with a sliding weight and a marker showing the equilibrium point of the scales. The scales are calibrated to measure directly the water content of the snow in mm."—SIPRE.

*Copy seen:* DLC.

**FINLAND. MERENKULKUHALITUS,** see Tuori, Heikki. Sounding through sea & lake ice Finland. 1952. No. 26849.

**21798. FINLAND. METEOROLOGINEN KESKUSLAITOS.** Suomen meteorologinen vuosikirja (Meteorologisches Jahrbuch) 1939. Pt. 2. Sade- ja lumihavainto ja Suomesta vuonna 1939; Niederschlags- und Schneebeobachtungen in Finnland im Jahre 1939. Helsinki, 1950. 68 p. tables, maps. Edited by V. V. Korhonen and J. M. Angervo. *Title tr.:* Meteorological yearbook for Finland 1939. Pt. 2. Precipitation and

snow observations in Finland in 1939. Text in Finnish and German.

"The tabulations of precipitation for 1939 include daily observations at 120 weather stations, monthly and annual records of 590 stations. One table indicates the depth of the snow cover measured at 240 stations at various times between Oct. 1938 and May 1939; another table presents densities of snow cover. Snow depth measurements are listed for forests as of Mar. 15, 1939 and for open fields as of Mar. 15, 1938." SIPRE. For previous years' reports see *Arctic Bibliography*, No. 4982.

**Copy seen:** DLC.

**FINLAND. METEOROLOGINEN KESKUSLAITOS**, *see also* Finland. Ilmatieteellinen keskuslaitos.

**FINLAND. METEOROLOGISKA CENTRALANDSTALT**, *see* Finland. Ilmatieteellinen keskuslaitos.

**21799. FINLANDIA PICTORIAL.** Arctic fury. (Finlandia pictorial, June-July, 1950. v. 5, no. 6-7, p. 26-27, illus.)

Contains remarks on Erik Blomberg's making of the movie "Arctic Fury" which was filmed over a three-year period out-of-doors in Lapland, in brief (8-week) intervals in spring when conditions of winter landscape and some sunshine coincided. **Copy seen:** DLC.

**21800. FINLANDIA PICTORIAL.** Caught with their bridges down. (Finlandia pictorial, May 1950. v. 5, no. 5, p. 14)

Contains remarks on bridge installations replacing those destroyed in northern Finland during the war. Temporary sectional wooden structures are used. They are removed to prevent damage by spring flood waters and ice and replaced in June, boats being used for river crossing during this interval. **Copy seen:** DLC.

**21801. FINLANDIA PICTORIAL.** Fifty years of ice-breaking. (Finlandia pictorial, Mar. 1951. v. 6, no. 3, p. 3-4, illus.)

Notes importance of ice-breakers to shipping in Finland, where no harbor can operate in cold winter without this service, and where five ice-breakers are in current use, (of which three were built in 19th century) and a new one is being built. **Copy seen:** CaMAI.

**21802. FINLANDIA PICTORIAL.** Finnish whalers on the Sea of Okhotsk.

(Finlandia pictorial, May 1951. v. 6, no. 5, p. 10-11, illus.)

Account of the whaling trip of the bark *Suomi* (owned by a Russo-Finnish company of Turku) via Cape of Good Hope to the Sea of Okhotsk in 1851.

**Copy seen:** DLC.

**21803. FINLANDIA PICTORIAL.** Officials ponder industrialization of the North. (Finlandia pictorial, May 1952. v. 7, no. 5, p. 1-3, 15, illus.)

Sketch of achievements and of plans for development of hydro-electric projects on Oulu and Kemi Rivers, nitrogen plant near Oulu, expansion of wood industry, exploitation of mineral resources, etc.; problems of financing such a program. **Copy seen:** CaMAI.

**21804. FINLANDIA PICTORIAL.** The Skolt Lapps are my friends. (Finlandia pictorial, Nov. 1950. v. 5, no. 11, p. 11)

Remarks on the Skolt Lapps (60 families in Finland) made in connection with the Swiss writer, Robert Crottet, and his book on their mythology, *Enchanted forest*, 1949, q. v.

**Copy seen:** DLC.

**21805. FINLANDIA PICTORIAL.** Skier's polar paradise. (Finlandia pictorial, Feb. 1952. v. 7, no. 2, p. 12-13, illus.)

Kemijärvi region of Finnish Lapland.

**Copy seen:** CaMAI.

**21806. FINLANDIA PICTORIAL.** The spell of Lapland. (Finlandia pictorial, Aug. 1950. v. 5, no. 8, p. 3-4, illus.)

Description of Lapland; the war damage and reconstruction; effects of day-and-night summer sunlight on natives and visitors. **Copy seen:** DLC.

**21807. FINLANDIA PICTORIAL.** Where the reindeer reigns. (Finlandia pictorial, Aug. 1950. v. 5, no. 8, p. 12-13, illus.)

Popular account of the reindeer industry in Lapland; ownership, numbers, marketing, etc., problems in raising reindeer in northern Finland.

**Copy seen:** DLC.

**21808. FINNERAN, JOSEPH C., and H. B. SHUMACKER, Jr.** Studies in experimental frostbite, 5. Further evaluation of early treatment. (Surgery,

gynecology, and obstetrics, Apr. 1950. v. 90, p. 430-38, 10 tables)

Contains a report on experiments with various laboratory animals, which demonstrated the efficacy of rapid thawing in treatment of frostbite. Production of vasodilatation with tetraethylammonium chloride, sympathetic denervation, and immediate heparinization were of limited value. Bibliography (16 items).

**Copy seen:** DLC.

**21809. FINNIE, O. S.** Canada's land of the midnight sun. (Natural history, July-Aug. 1928. v. 28, p. 353-66, illus., map)

General notes on the Mackenzie River valley and the Great Slave Lake region, the Indians and Eskimos, and the Northwest Territories administration.

**Copy seen:** DLC; DSI-M.

**21810. FINNIE, O. S.** Reindeer for the Canadian Eskimo. (Natural history, July-Aug. 1931. v. 31, p. 409-416, illus.)

Discussion of the project then underway to drive reindeer from Alaska to the Mackenzie River delta; the Eskimo economy of the 20th century, and need for the reindeer industry in Canada's Northwest Territories.

**Copy seen:** DLC; DSI-M.

**21811. FINNIE, RICHARD, 1906-** . Canol. The sub-arctic pipeline and refinery project constructed by Bechtel-Price-Callahan for the Corps of Engineers United States Army 1942-1944. Text and documentary photographs. San Francisco, California, 1945. 210 p., illus., plates, maps.

Contains introductory account of the project to develop the Norman Wells oil field, run a pipe line thence to Whitehorse on the Alaska Highway in Yukon Territory where a refinery would be built; sketch of the country, terrain, climate, people of Mackenzie valley and Yukon Territory; the contract arrangements, etc. Then follow (p. 13-191) photographs (some in color) with brief running commentary on Norman Wells, the airfields, road building, pipe-line construction, showing problems encountered in matters of climate, supply and transportation. Appendix has information on the companies participating in the project, management, administration, list of personnel, etc.

**Copy seen:** DLC.

**21812. FINSTERWALDER, RICHARD, 1899-** . Eishausalt von Gletschern

und Niederschläge in Gletschergebieten. (Geologische Rundschau, 1944. Bd. 34, Heft. 7-8, p. 705-712, diagr.) **Title tr.:** Ice economy of glaciers and precipitation in glacial regions.

"Measurements and methods are presented for establishing mean values of glacier economy over a long period of time and mean effects of climatic factors on glaciers. Glacier economy is determined by the net accumulation above the firn line and the amount of the ice that flows through the firn line in a year. The factors to be determined are the total precipitation and the ablation in the firn area. The amount of ice flowing through the firn line is found by making a cross section of the glacier along the firn line, and by measuring the average annual velocity of the glacier at the firn line. The volume of ice flowing through the firn line is the product of the ice velocity and the area of the profile. Accurate values of ablation on the firn area are obtained by the method, as well as mean values of precipitation which are difficult, if not impossible, to obtain by other methods."—SIPRE. **Copy seen:** DLC.

**21813. FINSTERWALDER, RICHARD, 1899-** . Some comments on glacier flow. (Journal of glaciology, Mar. 1950. v. 1, no. 7, p. 383-88)

"Regular, streaming ice flow exists in most European glaciers. It is characterized by regularity of the streamlines, clear and well formed moraines, and an apparent continuity of movement throughout the whole mass. The velocity increases regularly from margin to center. Block-Schollen movement occurs on rapidly moving glaciers. The ratio of velocity (m/year) to the width varies between  $\frac{1}{4}$  and  $\frac{3}{4}$  compared with ratios of  $\frac{1}{20}$  for slowly moving glaciers. The movement consists of a rapid increase in small marginal zones of high mobility from 0 to the maximum in one and the same reach of the glacier. The ice is brought up to a critical point of stress-strain and the ice breaks into blocks. It is shown that below the critical value, ice behaves like a viscous material and not as a plastic material according to Orowan's theory."—SIPRE. Bibliography (16 items).

**Copy seen:** DLC.

**21814. FIRBAS, FRANZ, 1902-** . Neuere Untersuchungen zur Vegetationsgeschichte der nordeuropäischen Länder. (Naturwissenschaften, Jan. 29,

1943. Jahrg. 31, p. 69-72) *Title tr.*: Recent research on the history of vegetation in northern regions.

*Contains* discussion of nine papers dealing with pollen horizons and other phyto-geographic subjects bearing on post-glacial and late-glacial time in Scandinavia, particularly Swedish and Finnish Lapland. *Copy seen*: DLC.

**21815. FIRCKS, CURT.** On the occurrence of gold in Finnish Lapland. Helsingfors, 1906. 37 p., front., illus., diags., fold. map. (Finland. Geologiska kommission. Bulletin, 3:17)

*Contains* brief history of placer mining in northern Finland, location of the placers, geologic descriptions of the gold-bearing veins, and the relation between the veins and placers. *Copy seen*: DLC.

**FIRSTOV, A. A.,** *see* Pozdnâkov, E. V., & A. A. Firstov. Vliânie rezhima kormleniâ. 1952. No. 25274.

**21816. FISCHER, HOWARD H.** Dental health for veterans. (Alaska's health, Dec. 1946. v. 4, no. 12, p. [1-2])

Description of services available throughout the Territory under the Dental Section of the U. S. Veterans Administration. *Copy seen*: DLC.

**FISH, WILLIAM R.,** *see* Dorfman, R. I., & others. Presence cortin-like substance in urine men. 1942. No. 21535.

**21817. [FISHER, ALEXANDER]** Précis du Voyage de découvertes dans la mer de Baffin, exécuté en 1818, sous la commandement du capitaine Ross. D'après la relation d'un Officier à bord de l'*Alexander*. (Journal des voyages, découvertes et navigations modernes, 1819. t. 2, p. 265-365; t. 3. p. 32-39) *Title tr.*: Summary account a voyage of discovery to Baffin Bay, made 1818 under the command of Captain Ross. After the narrative of an officer aboard the *Alexander*.

Based on Fisher's *Journal of a voyage*, 1819, (see *Arctic Bibliography*, No. 5021).

*Copy seen*: DLC.

**21818. FISHER, E. FRANKLIN.** Alaska and the Alaska Highway. (Journal of geography, Oct. 1950. v. 49, p. 278-83, map)

Brief notes for the general reader on the Alaska Highway from Edmonton to Fairbanks in Yukon Territory, and the Richardson and Glenn Highways from

Big Delta, Alaska to Palmer (in the Matanuska valley). *Copy seen*: DGS.

**21819. FISHER, JAMES, 1912-** . The fulmar. With a painting by Peter Scott. London, Collins, 1952. 496 p. illus. (The New naturalist series [6])

*Contains* an extensive study of this bipolar super-species, based on wide travel and observations and on the literature (over 2400 works), with numerous photographs (some in color), drawings, maps, etc. Following general descriptive data, regional forms of the bird are treated: Antarctic, Pacific (particularly in the Aleutians and Pribilofs), Atlantic (in Jan Mayen, Bjørnøya, Franz Josef Land, Spitsbergen, Greenland and Canadian Arctic Islands), Iceland, The Faeroes, Norway, and Great Britain. The breeding population of the Atlantic fulmar, color phases of the bird, voice and display, annual cycle, its parasites, enemies, rivals, etc., are dealt with. And more generally the fulmar's food, breeding, possible causes of its spread (with consideration of recent climate-change, whaling and trawling) are discussed. *Appendices* (7) present the Eskimo legend of Sedna and the fulmar; taxonomy, measures, weights, etc., of fulmars; recovery of marked birds; statistics on birds taken for food in Iceland; the palatability of the bird and its eggs; etc., and a selective bibliography. *Copy seen*: DLC.

**21820. FISHER, JAMES, 1912-** . A history of the fulmar *Fulmarus* and its population problems. (Ibis, 1952. v. 94, no. 2, p. 334-54)

*Contains* an account of the spectacular spread of the fulmar and the factors involved. Data are presented on the world distribution of the Pacific fulmar, *Fulmarus glacialis rodgersii*, and the Atlantic fulmar, *F. glacialis glacialis*, covering all arctic regions of Europe, Asia and North America; also on the breeding population of the North Atlantic fulmar. Causes of the fulmar's spread are presented in some detail.

*Copy seen*: MH-Z.

**21821. FISHER, JOEL E.** Dirt bands. (American alpine journal, Sept. 1949. v. 7, p. 309-317, illus., 4 plates)

Discussion of glacial phenomena defined as "unique crossglacier concentric parabolic markings", and their origin; including a list of characteristics dis-

tinguishing Forbes bands from Alaska bands, and the conclusion "that the contrasting banding is noticeable primarily on account of certain alternating differences in the texture of the ice, rather than on account of local concentrations of dust." **Copy seen:** DGS.

**21822. FISHER, JOEL E.** The pressure melting point of ice and the excavation of cirques and valley steps by glaciers. (International Geodetic and Geophysical Union. Association of Scientific Hydrology. Assemblée générale d'Oslo, 1948. Procès-verbaux des séances. t. 2. Travaux de la Commission de la Neige et des Glaciers, pub. 1950? p. 341-44, diagrs.)

Statement of the "established principle, that outside the Arctic the temperature of all glaciers 10 or 20 meters below the surface (and deeper) tends to be at all times at the local pressure melting point; that is . . . continually very slightly below 0° C." Discussion of cutting tools immediately below the bergschrund, extreme static pressures thereon, and ice temperatures barely above the pressure melting point which are responsible for the excavation of cirques. **Copy seen:** DGS.

**21823. FISHER, JOEL E.** Pressure melting points of ice and their control on the profile of glaciated valleys. (International Geodetic and Geophysical Union. Association of Scientific Hydrology. Assemblée générale d'Oslo, 1948. Procès-verbaux des séances. t. 2. Travaux de la Commission de la Neige et des Glaciers, pub. 1950? p. 345)

Brief note on variation of the cutting power of glacial ice and how changes in this cutting power are correlated with characteristic features of the profile of a glaciated valley. **Copy seen:** DGS.

**FISHER, JOSEPH L.,** see U. S. National Resources Planning Board. Region 10. External trade of Alaska 1931-40. 1943. No. 26963.

**21824. FISHER, WALTER KENRICK, 1878-** . New genera of starfishes. (Annals and magazine of natural history, Feb. 1910. ser. 8, v. 5, p. 171-73)

One of the four new genera noted here occurred in Stephens Passage, Alaska at 188-131 fathoms.

**Copy seen:** DSI-M.

**21825. FISHER, WALTER KENRICK, 1878-** . New Pterasteridae from the

North Pacific. (Annals and magazine of natural history, Feb. 1910. ser. 8, v. 5, p. 167-70)

Descriptions of six new species of sea stars, two of which are from Aleutian waters, and two from Bering Sea.

**Copy seen:** DSI-M.

**FITCH, JOHN E.,** see McHugh, J. L., & J. E. Fitch. Annotated list clupeoid fishes. 1951. No. 24084.

**21826. FITZGERALD, GERALD ARTHUR, 1898-** . New reconnaissance maps of Alaska. (Surveying and mapping, Oct.-Dec. 1952. v. 12, no. 4. p. 376-81, illus. maps)

Contains paper presented at the 12th annual meeting of the American Congress on Surveying and Mapping, Washington, D. C., June 11-13, 1952, by the Chief Topographic Engineer, U. S. Geological Survey. He notes the completion "within the next several months" of reconnaissance topographic maps at scale 1:250,000 covering Alaska; and briefly reviews the history of topographic mapping carried out by the U. S. Geological Survey in Alaska. Difficulties of short season, difficult terrain and limited (dog-team, pack-horse) transportation are noted. Development and use of new equipment and methods (multi-lens aerial camera, Wilson photo-alidade, helicopter, airborne shoran; airborne altimetry) in recent years are described and illustrated.

**Copy seen:** DLC.

**21827. FITZGERALD, GERALD ARTHUR, 1898-** . Surveying and mapping in Alaska. [Washington, D. C.], 1951. 24 p. illus. (U. S. Geological Survey. Circular 101) Process printed.

Contains a brief and general account of surveying and mapping in Alaska and its waters from the Russian period, 1728-1867, to 1950. Includes a précis of programs undertaken by the various U. S. government agencies beginning in 1895, and mention of methods and equipment. Bibliography (10 items).

**Copy seen:** DGS.

**21828. FITZPATRICK, PATRICK J.** The Antarctic snow cruiser. (Western Society of Engineers. Journal, June 1940. v. 45, no. 3, p. 121-30 incl. illus.)

"The Snow Cruiser designed by T. C. Poulter for over-snow travel is powered by two 150 h. p. Cummins-Diesel engines, each directly coupled to a 75 kw General Electric traction generator. The vehicle

is 55 ft. long, 20 ft. wide, 15 ft. high, and contains an engine room and shop; combined gallery, darkroom and instrument room; living quarters for 4 men; 2 combined fuel and storage rooms, and a large tall and storage compartment. The wheels sank 8 in. into the snow during its initial Antarctic run, which caused a higher power consumption than desirable. A higher gear ratio between the electric motors and the wheels is planned to overcome this difficulty."—SIPEE.

**Copy seen:** DLC.

**FLANAGAN, J. O.,** *see* Pearce, D. C. Bibliography on snow & ice. 1951. No. 25009.

**FLEISCHMANN, WALTER, 1896-**, *see* Horvath, S. M., & others. Survival time warm-blooded animals in extreme cold. 1948. No. 22715.

**FLEISCHMANN, WALTER, 1896-**, *see also* Streicher, E., & others. Effects extreme cold on fasting pigeons. 1950. No. 26502.

**21829. FLEMING, JOHN A.** Temporary Commission on the Liquidation of the Second International Polar Year, 1932-33. (Polar record, July 1950, v. 5, no. 40, p. 621-23)

*Contains information on the origin of the International Polar Year; the International Meteorological Organization which sponsored the second Polar Year (1932-33); the latter's program and achievements; the composition and aims of the Temporary Commission; its budget and activities.*

**Copy seen:** DLC.

**21830. FLEMING, RICHARD HOWELL, 1909-**. Thirteenth award of the William Bowie medal, Citation. (American Geophysical Union. Transactions, June 1951. v. 32, no. 3, p. 337-40, photo)

A. G. U. award for "distinguished attainment and outstanding contribution to the advancement of cooperative research in fundamental geophysics" to H. U. Sverdrup, director Norsk polarinstitutt; his achievements as oceanographer, meteorologist, geophysicist and polar explorer are cited and major publications indicated.

**Copy seen:** DLC; DWB.

**FLEMING, ZOÉ W.,** *see* Kuitunen-Ekbaum, E., & Z. W. Fleming. Note on trichinosis in dogs. 1949. No. 23501.

**21831. FLEROV, KONSTANTIN KONSTANTINOVICH, 1904-**. O geo-

graficheskom rasprostraneni i sistematike losel. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1934. nouv. ser., v. 2, no. 2, p. 137-43) **Title tr.:** On the geographical distribution and systematics of elk or moose (*Alces* Gray).

New conclusions on the distribution and the taxonomic position of representatives of the genus *Alces*, made possible by data received from America. Translation in English, p. 141-43.

**Copy seen:** DLC.

**21832. FLEROV, KONSTANTIN KONSTANTINOVICH, 1904-**. Ocherk zhizni burogo medvedia na Severnom Urale. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1929. t. 30, vyp. 3, p. 351-58, illus.) **Title tr.:** Contribution on the life of the brown bear in the Northern Urals.

*Contains author's observations made in the summer of 1926, on the biology and ecology of this bear.*

**Copy seen:** MH-Z.

**21833. FLEROV, KONSTANTIN KONSTANTINOVICH, 1904-**. Ocherki po mlekopitafushchim Polarnogo Urala i Zapadnoi Sibiri. (Akademiia nauk SSSR. Izvestiia, seria 7, Otdelenie matematicheskikh i estestvennykh nauk, 1933, no. 3, p. 445-70, illus., plates 1-2) **Title tr.:** Notes on mammals of the Polar Urals and western Siberia.

*Contains observations on 20 species of mammals made during the Northern Ural Expedition of the Academy of Sciences U.S.S.R. (leader: B. N. Gorodkov) in 1926-27, with biological and ecological notes and data on distribution.*

**Copy seen:** MH.

**21834. FLEROV, KONSTANTIN KONSTANTINOVICH, 1904-**. On the classification and the geographical distribution of the genus *Moschus* (Mammalia, Cervidae). (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1930. t. 31, vyp. 1, p. 1-20, plates 1-7)

*Contains a study on the systematics and geographic distribution of the musk-deer or "kabarga" of Russia, with descriptive notes and data on the dimensions of skull and coloring of eight species, a key to species based on external characteristics, another based on skeletal characteristics, tabulated dimensions of various species and a text map of distribution. Includes *Moschus moschiferus**

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*sibiricus* and *M. moschiferus arcticus* native to Yakutia (70° N. lat.).

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**21835. FLEROV, KONSTANTIN KONSTANTINOVICH, 1904-** . Pishchukha Severnogo Urala. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1927. t. 28, vyp. 1, p. 138-44, illus., plate 4) **Title tr.:** The pika of the Northern Urals.

Contains an English diagnosis of *Ochotona hyperborea uralensis* n. subsp., with critical notes and data on biology and ecology of this calling-hare, native to the Northern Ural Mts.; also a table of measurements of *O. hyperborea* from the Anadyr' region in northeastern Siberia, with measurements for n. subsp. *uralensis*. **Copy seen:** DLC; MH-Z.

**21836. FLEROV, KONSTANTIN KONSTANTINOVICH, 1904-** . A review of the elks or moose (*Alces* Gray) of the Old World. (Akademiia nauk SSSR. Doklady, Seriya A, 1931, no. 3, p. 71-74, illus.)

As a result of this study, the American moose is considered to be but a subspecies of *Alces alces*. **Copy seen:** DLC.

**21837. FLEROV, KONSTANTIN KONSTANTINOVICH, 1904-** . A trunk of mammoth (*Elephas primigenius* Blum) found in the Kolyma district (Siberia). (Akademiia nauk SSSR. Izvestiia, seriia 7, Otdelenie matematicheskikh i estestvennykh nauk, 1931. nr. 6, p. 863-70, illus., plates 1-2)

Contains a description (and table of measurements) of the tip of a mammoth trunk found in 1924 by a Tungus on the bank of Bol'shaya Baranika River in permafrost, and deposited in Zoological Museum of the Academy of Sciences U.S.S.R. Summary in Russian.

**Copy seen:** MH.

**21838. FLETCHER, JOSEPH O., and LAWRENCE S. KOENIG.** Floating ice islands. Headquarters 58th Strategic Reconnaissance Squadron (M) Weather . . . Special report no. 5. Seattle, Wash., Sept. 1951. 37 p. illus., maps (process print.)

Contains an account of three ice islands (designated T<sub>1</sub>, T<sub>2</sub>, T<sub>3</sub>) floating free in the Arctic Basin. Their discovery, characteristic features (considerable size and thickness; regular "corrugated" surface pattern and wedged shape), origin, and movement are described. The islands have been followed by aerial reconnais-

sance T<sub>1</sub> since 1946, T<sub>2</sub>, T<sub>3</sub> since 1950 and their track (from the region of 75°N. 170° W. across the Arctic Basin to Lincoln and McKinley seas) is plotted on map. It is suggested that these islands probably originated on the northern Ellesmere coast, where an ice foot exists closely resembling them. They are only slightly affected by melting and have far smoother surfaces than ordinary pack ice. It is theorized that these differences may be due to the glacial origin and fresh water content of the ice islands.

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**21839. FLETCHER, JOSEPH O.** Floating ice islands in the Arctic Ocean. (Tellus, Nov. 1950. v. 2, p. 323-24, incl. illus., *Letters to the editor*)

"Radarscope observations indicated the presence of three ice islands in the Arctic Ocean. The surface of each shows a regular corrugated pattern with troughs and ridges 300-600 ft. apart. A drainage system of rivers about 100-200 ft. wide is superimposed on this pattern. The projection of the ice mass above the water was estimated from 30-100 ft. or more."—SIPRE.

**Copy seen:** DLC.

**FLETCHER, JOSEPH T.,** see *United States air services*. 500th flight over N. Pole. 1951. No. 26979.

**FLETCHER, M. ELIZABETH,** see Wyatt, T. C., & others. Hypervitaminosis A, report of case. 1950. No. 27503.

**21840. FLIGHT.** On the ice wagon. (Flight, Sept. 1950. v. 58, p. 346-48 incl. illus.)

"The Rockcliffe Ice Wagon is a R.C.A.F. Canadair North Star used to investigate icing during flight. Full-scale de-icing methods are tried on a dorsal appendage which is a symmetrical airfoil surface, 8 ft. high and 10 ft. chord to a leading edge equipped with de-icing media. The leading edge of the dorsal fin is removable to provide quick changes of de-icing pads. Other surfaces are de-iced by standard pneumatic overshoes. A cyclic-timer system provides sufficient heat to melt ice adhesions at regular intervals. Ambient temperature, water content, and water-droplet size are also studied. Water droplets in clouds are photographed in passing an illuminating unit outside the fuselage."—SIPRE.

**Copy seen:** DLC.

**21841. FLIKKE, ARNOLD M.** Results of ice-free water tank studies. (Agricultural engineering, Aug. 1950. v. 31, p. 385-86, 390, tables, diagrs.)

Paper presented at the winter meeting of the American Society of Agricultural Engineers, Dec. 1949; Minnesota Agricultural Experiment Station, Miscellaneous journal series paper 698, project 114.

Study of the problem of ice-free water for livestock in northern climates, involving efficient use of electricity, the heat requirements, heat loss, changes of temperature in ice formation, cooling phases, etc.

*Copy seen:* DGS.

**21842. FLINT, H. R.** The second winter's experience on the Alaska Highway; organization for combating snow and ice. (Roads and bridges, July 1944. v. 82, no. 7, p. 41-44, 79, illus.)

Description of maintenance work on the Alaska Highway, 1943-44; snow removal, ice control and maintenance of drainage in ditches and culverts by use of steam. "Snow removal equipment consisted mostly of motor graders, mold-board push plows, V-plows, wings, and rotaries. Materials used for sanding icy road surfaces were fine sand, pit-run gravel, crushed gravel or rock from stock piles, and decomposed granite. Culverts were kept open for drainage by wood or oil fires in half-barrel or barrel stoves at the end of the structure, and steam-thawing units. Blasting, and a one-tooth ripper or grader were used to maintain open ditches."—SIPRE.

*Copy seen:* DLC.

**21843. FLINT, H. R.** Winter road maintenance on the Alaska Highway. (Engineering and contract record, Aug. 9, 1944. v. 57, no. 32, p. 30-34 incl. illus.)

"Equipment used for snow removal consisted of motor graders, moldboard push plows, V-plows, wings, and rotaries. Sanding started after the first snowfall and continued throughout the winter. Fine sand, pit-run gravel and crushed gravel or rock from stock piles were used. Drainage was improved by the construction of diversion channels, ditches, and small bridges and culverts. Moss was cleared from the ground above the road to divert small surface flows and produce freezing before the water reached the highway. The water flow through culverts was kept open by barrel stoves placed at the ends of the structures until the arrival of steam thawing units. Flame throwers and blasting were used

to clear culverts and open ditches. Other methods included the use of one-tooth rippers or graders. These methods successfully prevented ice formation over the highway during the winter of 1943."—SIPRE.

*Copy seen:* DLC.

**21844. FLINT, MAURICE S.** The Arctic, land of snowmen. Field survey no. 2. London, Bible Churchmen's Missionary Society, 1948. 39 p., illus., map inside front cover.

Author, who was B.C.M.S. missionary at Pond Inlet in northern Baffin Island 1936-41, sketches the Eskimo way of life and the work of Anglican missionaries in their efforts to christianize natives and counteract evil influence of other white men in the North. Typewritten slip pasted on title page notes that B.C.M.S. missions and their personnel on Baffin Island are transferred to the Church of England in Canada Mission Society as from Jan. 1, 1951. *Copy seen:* CaMAL.

**21845. FLINT, MAURICE S.** Operation Canon. A short account of the life and witness of the Reverend John Hudspeth Turner . . . missionary of the Bible Churchmen's Missionary Society in its Eskimo field. London, Bible Churchmen's Missionary Society, 1949. x, 86 p., illus., map on end papers.

Tribute to Canon Turner, Anglican missionary in the Canadian Eastern Arctic from 1929 till his death in 1947. Account of his early life and training, work among Eskimos, building of three mission stations on northern Baffin and Somerset Island, translations, etc.; his sledge journeys totaling about 24,000 miles, covering the northern Baffin Island and the region westward to about 95° W. long. Includes brief account of his shooting accident and removal by Royal Canadian Air Force and Canadian Army paratroopers to Winnipeg, and his death.

*Copy seen:* DLC.

**21846. FLINT, RICHARD FOSTER, 1902- , and H. G. DORSEY.** Glaciation of Siberia. (Geological Society of America. Bulletin, Jan. 1945. v. 56, p. 89-106)

"Authors consider that there was an extensive but thin ice sheet in N. W. Siberia corresponding with Riss but probably developing earlier. This extended over the Arctic Shelf and included Franz Josef Land and Novaya Zemlya in a barrier continuous with Scandinavian ice. In south and east extensive piedmont

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glaciers. In Wurm ice was much less extensive. Glaciation attributed to lower temperature. [Perennially] frozen ground post-glacial."—*Meteorological abstracts and bibliography*, July 1950. v. 1, no. 7, p. 463. Brief description is included of glaciated areas in northwestern Siberia, mountains of northeastern Siberia (Verkhoyansk, Chersky, Kolyma or Gydan ranges), Chukotsk Peninsula, arctic coast and islands.

"In Siberia glaciers exist today only in arctic-maritime areas and high-mountains. The position of former glaciers was determined partly by high land and partly by prevailing storm tracks. Moisture from Atlantic, Arctic, and Pacific sources building the glaciers was less abundant than that supplied the Scandinavian ice sheet. Siberian glaciers were thin with small ablation. Multiple glaciation is established. Scandinavian and Siberian ice sheets, while synchronous reached their maxima at different times. Distribution of former glaciers is shown in two accompanying maps."—*Geological Society of America. Bibliography and index of geology*, 1945-1946. v. 2, p. 106.

**Copy seen:** DLC.

**21847. FLINT, RICHARD FOSTER, 1902-** . Growth of North American ice sheet during the Wisconsin age. (*Geological Society of America. Bulletin*, 1943. v. 54, p. 325-62)

"Labradorean and Keewatin ice-sheets were separate only in very late Wisconsin before that a single Laurentide sheet existed, originating as valley glaciers in highlands of East Quebec, Labrador and Baffin Island and fed by south and west winds. The ice formed broad low domes caused by exceptional concentrations of snowfall. Cordilleran glacial complex a separate system."—*Meteorological abstracts and bibliography*, July 1950. v. 1, no. 7, p. 462-63.

**Copy seen:** DLC.

**21848. FLINT, RICHARD FOSTER, 1902-** . Highland centers of former glacial outflow in northeastern North America. (*Geological Society of America. Bulletin*, Jan 1951. v. 62, p. 21-37, incl. 2 maps, fold. map)

Review of published literature indicating several highland regions which had local glaciers preceding and following the Laurentide ice sheet of the last ice age. Included are notes on Quebec and central Labrador, the coastal mountains of

Labrador and the eastern Canadian Arctic. *Bibliography* (52 items).

**Copy seen:** DGS.

**21849. FLINT, RICHARD FOSTER, 1902-** . The ice age in the North American Arctic. (*Arctic*, Oct. 1952. v. 5, no. 3, p. 135-52, illus., map)

*Contains* remarks on the glacial and interglacial ages together constituting the Pleistocene epoch inaccurately termed the "ice age." Then follow sections on evidence of glaciation; distribution and types of former glaciers; growth and disappearance of glaciers; evidence of repeated glacial ages; glacial lakes; the postglacial sea and rise of the land; chronology and causes of glaciation; glaciation and life. *Bibliography* (over 30 items). **Copy seen:** CaMAI; DLC.

**21850. FLOHN, HERMANN.** Die Zirkulation der Atmosphäre in den Polargebieten. (*Polarforschung*, 1951. Bd. 3, Jahr. 21, p. 58-64, diagr.) **Title tr.:** Atmospheric circulation in polar regions.

*Contains* discussion of important advances in knowledge made in the last five years from observations of recently established aerological stations in the Arctic and expeditions to the Antarctic: "Most important is the discovery of a cold pole in the free troposphere in about 75° N. 80° W. which governs circulation up to 100 mb, and a secondary pole over Alaska. There is probably a similar but weaker asymmetry over the Antarctic. Polar temperatures are tabulated up to 21 km. A possible connection between tropospheric asymmetry and magnetic poles is mentioned. Troposphere is colder in Antarctic than Arctic, due to weaker meridional exchange. Polar stratosphere temperature, glacial anticyclone and glacial inversion are briefly discussed."—*Meteorological abstracts and bibliography*, Mar. 1952. v. 3, no. 3, p. 212-13. *Bibliography* (10 items).

**Copy seen:** DGS.

**21851. FLOOD, MILFORD.** Arctic journal, and other works, including Ruall Dwelly [and] Of prairie rappees. Los Angeles, Wetzel Pub. Co. [1950] 459 p. illus., map (on lining papers)

*Contains* (p. 13-126) a journal for Oct. 1943-July 1944, kept by the author during his connection as a construction worker with the Canol Project. This was a U. S. Army project to construct a pipeline from Norman Wells on the Mackenzie to Whitehorse in Yukon Terri-

tory. The journal describes camp life, working conditions and incidents, weather, nature of the country, etc., "as observed through the eyes of a working-man . . . shut away from work orders, project maps, indeed from even a broad view of the terrain as seen through the windows of a truck cab." The rest of the book (p. 127-459) contains earlier works by the author, a novel, short stories, etc.

**Copy seen:** DLC.

**FLORENSKIĬ, K. P.,** *see* Tels, R. V., & K. P. Florenskii. Isotopic composition of snow. 1940. No. 26645.

**21852. FLOROV, D. N.** Listvenichnaia listoverotka. (Vsesoiuznoe geograficheskoe obshchestvo. Izvestiia, 1952. t. 84, vyp. 6, p. 622-27, illus., sketch maps) **Title tr.:** The larch leaf-borer.

*Contains* an account of the moth *Semasia diniana*: its occurrence and geographical distribution, earlier studies, mass occurrence in eastern Siberia, damage to forests, etc. This species ranges far beyond the Arctic Circle in northeast Asia and is considered the northernmost pest of the larch forest. Bibliography (3 items).

**Copy seen:** DLC.

**21853. FLOVIK, KARL.** The somatic chromosomes of certain arctic species of the genus *Ranunculus*. Helsingfors, 1936. 19 p., plate, illus., diagr. (Finska vetenskaps-societeten. Commentationes biologicae, 5:7)

*Cytological data on* *Ranunculus sulphureus*, *R. lapponicus* L., *R. pygmaeus* Wg., *R. hyperboreus* Rottb., *R. nivalis* L., and *R. lapponicus x pallasii* collected on West Spitsbergen in 1935. The living plants were studied in the State Horticultural Institution at Piikkiö.

**Copy seen:** DLC.

**FLYNN, JEAN,** *see* Rosenhain, F. R., & others. Blood gas studies in hypothermic dog. 1951. No. 25657.

**21854. FØYN, SVEN.** Spalteganger i Sør-Varanger. (Norsk geologisk tidsskrift, 1945. Bd. 25, p. 127-46, illus.) **Title tr.:** Dykes in Sør-Varanger.

"Four groups of dikes intruding Precambrian gneisses are differentiated in the coastal district of the Varanger Fiord, northern Norway, and their relations to each other and to younger tectonic lines along which horizontal displacement has taken place are discussed."—Geological Society of America,

*Bibliography and index of geology. Summary in English.* **Copy seen:** DGS.

**21855. FOGED, NIELS.** Diatoms in trumpet-formed catching nets of *Neureclipsis bimaculata* L. in Sweden. (Botaniska notiser, 1952, häft. 2, p. 157-84, illus.)

*Contains* the results of the study of diatoms caught in these nets made by the larva of a caddis-fly, *Neureclipsis bimaculata*. The study was carried out by the author in two Swedish localities, including Kåbdalis, a small river with brown water near Jokkmokk in Swedish Lapland (ca. 66° N. lat.). A list of 31 new or rare diatoms is offered, including at least four species native to Kåbdalis, and another systematic list of 241 forms, comprising 184 species and 31 genera; a bibliography (44 items).

**Copy seen:** MH-A.

**21856. FOHN-HANSEN, LYDIA OLAVA, 1891-** . The Extension Service nutrition program. (Alaska's health, Oct. 1948. v. 6, no. 10, p. 10-12)

Note on purpose, history, methods, and offices also personnel, publications and program of the University of Alaska Extension Service; with tabular data on vitamin C content of frozen Alaskan vegetables.

**Copy seen:** DLC.

**21857. FOHN-HANSEN, LYDIA OLAVA, 1891-** . Proper clothing for improper weather. (Alaska's health, May 1947. v. 5, no. 5, p. [2-4])

Discussion of special problems of clothing for the everyday life of the average person in Alaska.

**Copy seen:** DLC.

**21858. FOKOS, DAVID RAPHAEL.** Beiträge zur Kenntnis der Volksglaubens der Syrjänen. (Finnisch-ugrische Forschungen, 1923-24. Bd. 16, p. 237-74) **Title tr.:** Contributions to the knowledge of Zyryan folk beliefs.

*Contains* material recorded from prisoners of war in Hungary in 1916-17, five native Zyryans being used as informants. Includes legends and concepts of cosmogony (creation of man, animals, and heavenly bodies, the origin of manifestations of nature, origin of Hell, myths of Adam and Eve, the deluge and Noah's ark, thunder, men transformed into animals, doomsday), also concepts of various spirits, and the magicians. Many comparative references are made to other Finno-Ugric peoples.

**Copy seen:** DLC; InU.

**21859. FOKOS, DAVID RAPHAEL.** Etymologische Beiträge. (Finnisch-ugrische Forschungen, 1923-24. Bd. 16, p. 74-87) *Title tr.:* Etymological essays.

*Contains* among other things the etymologies of Zyryan *šog* (mourning, grief), and Vogulian *šerkeš* (eagle).

*Copy seen:* DLC; InU.

**21860. FOKOS, DAVID RAPHAEL.** Das obugrische Diminutivsuffix -n. (Finnisch-ugrische Forschungen, 1939-40. Bd. 26, p. 26-62) *Title tr.:* The Ob-Ugrian suffix -n for diminutives.

Attached to a noun, the suffix -n can affect the meaning, and change the noun into a diminutive or an adjective; also it may not change the meaning at all. The same suffix can be attached to an adjective, a pronoun, or numeral as well as to a noun.

*Copy seen:* DLC; InU.

**21861. FOKOS, DAVID RAPHAEL.** Ostj. *käl* 'Wort' und 'Strick'. (Suomalais-ugrilainen seura. Toimituksia, 1950. v. 98, p. 37-52) *Title tr.:* Ostyak *käl* 'word' and 'cord'.

In Ostyak there are two homophone words, one of them meaning 'word, speech, information', the other 'string, cord'. These two words must be kept strictly separated, and all the attempts to connect them must be considered erroneous.

*Copy seen:* DLC; InU.

**21862. FOKOS, DAVID RAPHAEL.** Ueber die adverbialen Zahlwörter im Syrjänischen. (Finnisch-ugrische Forschungen, 1913. Bd. 13, p. 6-22) *Title tr.:* The adverbial numerals in Zyryan.

*Copy seen:* DLC; InU.

**21863. FOKOS, DAVID RAPHAEL.** Volksdichtung der Komi (Syrjänen). Budapest, Akadémiai Kiadó, 1951. 472 p. *Title tr.:* Folk poetry of the Zyryans.

*Contains* texts written down in 1916-17 from five prisoners-of-war of Zyryan origin who originated in the vicinities of the Letka, Prup, Vym, upper and middle Vychegda Rivers. Given in the original language and verbatim German translation, with numerous notes, references and descriptions of the dialects, the texts are chiefly narratives: 76 folk tales and legends, 14 beliefs, 4 charms, 4 customs, 7 songs, including a bride's lamentation, a children's rhyme, 5 riddles, 5 proverbs, and some names of rivers and localities.

*Copy seen:* InU.

**FOKOS, DAVID RAPHAEL,** *see also* Lach, R. Gesänge russ. Kriegsgefangener 1:1. 1926. No. 23580.

**21864. FOLINSBEE, ROBERT EDWARD, 1917- , and J. C. MOORE.** Preliminary map Matthews Lake, Northwest Territories (descriptive notes). Ottawa, 1950. [1], 11 l., 2 fold. maps. (Canada. Geological Survey. Paper 50-2) Mimeographed.

*Contains* description of the general and structural geology, and the gold-quartz and gold-sulphide deposits "found along the sedimentary-volcanic contact," in the region (north of Great Slave Lake) between about 63°57'-64°10' N. 111°05'-20' W. with a preliminary geologic map (in 2 sheets) scale 1 in.:1,500 ft.

*Copy seen:* DGS.

**FOLK, G. E.,** *see* Belding, H. S., & others. Analysis factors energy balance extreme cold. 1947. No. 20540.

**FOLK, G. E.,** *see also* Belding, H. S., & others. Thermal responses & efficiency of sweating. 1947. No. 20542.

**FOLK, G. E.,** *see also* Horvath, S. M., & others. Survival time warm-blooded animals in extreme cold. 1948. No. 22715.

**21865. FOLKE, LEIF.** Tuberculin tests in the district of Julianehaab, Greenland. (Acta tuberculosea scandinavica, 1935. v. 8, p. 283-93, graph)

The Mantoux test was performed on 866 Greenlanders aged one-half to 19 years; 73 percent gave positive reactions; this figure is compared with those from Europe and America: for 284 children, aged one-half to 13 years, a comparison is drawn between tuberculin tests and clinical examinations and the source of infection in the home is demonstrated in infants. The result of tuberculin tests (sub-cutaneous) in 38 head of cattle in Greenland are also given. Bibliography (12 items).

*Copy seen:* DSG.

**FORBES, C. L.,** *see* Baker, B. H., & others. Fossiliferous strata Kapp Scania Vest Spitsbergen. 1952. No. 20419.

**FORBES, RICHARD M.,** *see* Swift, R. W., & R. M. Forbes. Heat production of fasting rat. 1939. No. 26574.

**FORBES, ROBERT B.,** *see* Miller, M. M., & others. Scientific observations JIRP 1949. 1952. No. 24366.

**FORBES, W. H.**, see Dill, D. B., & W. H. Forbes. Respiratory & metabolic effects hypothermia. 1941. No. 21476.

**FORBES, W. H.**, see also Newburgh, L. H., & others. Physiology heat regulation & clothing. 1949. No. 24625.

**FORD, DONALD MERLE, 1922-**, see Barnes, F. F., & D. M. Ford. Coal prospects & exploration Matanuska. 1952. No. 20471.

**FORD, SAMUEL G., 1880-1950**, see Canada. Northwest Territories & Yukon Services. Book of wisdom for Eskimo. 1947, 1949. No. 21114.

**21866. FOREST AND OUTDOORS.** Alaska on the wire. (Forest and outdoors, 1943, v. 39, p. 297, illus.)

Contains an account of the construction of the Alaskan Highway telephone line, 1,600 miles long; and includes description of climatic conditions; stages of work, crew, clothing and food of the crew; methods of work and some technical details of the line.

**Copy seen:** DA.

**21867. FOREST AND OUTDOORS.** Forest regions of Canada. (Forest and outdoors, 1942. v. 38, p. 239-42, illus., map)

Contains sections on the effect of climate, soil, animal life and man on the range of forest trees and regional distribution of forests; with brief treatment of the Canadian forest regions, their respective areas, soil, main tree species, production of timber, etc. The boreal forest region, the largest and most important in Canada, which extends into the arctic zone, is included.

**Copy seen:** DA.

**21868. FORMOZOV, ALEKSANDR NIKOLAEVICH.** Kratkii obzor rabot po ekologii ptits i mlekopitaushchikh za dvadtsatiletie (1917-1937 g.). (Zoologicheskii zhurnal, 1937. t. 16, vyp. 5, p. 916-49) **Title tr.:** A brief survey of work on the ecology of birds and mammals for twenty years (1917-37).

Contains an historical survey of the study of the ecology of birds and mammals in the U.S.S.R., with critical review of various books and papers published on the subject and a bibliography (about 400 items) p. 942-49. Data on ecological investigations in the northern regions of the U.S.S.R. are included as

well as some papers with arctic material in the bibliography.

**Copy seen:** MH-Z.

**21869. FORMOZOV, ALEKSANDR NIKOLAEVICH.** Ob osobennostiakh arealov russkikh son' (Myoxidae) i burunduka (*Eutamias asiaticus* Gmel.). Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1928. Otdel. biol. Novaya seriia, t. 37, vyp. 3-4, p. 205-249, 2 text maps) **Title tr.:** Features of the area of the Russian dormouse (*Myoxidae*) and chipmunk (*Eutamias asiaticus* Gmel.).

Contains a zoogeographic study of the areas of dormice and chipmunks in eastern Europe in relation to the geographic distribution of latifoliate forests (oaks, maples, lindens, etc.) shown on map 1; map 2 indicates the geographic limits of distribution of larch and chipmunk in eastern Europe and Siberia, including the northern region; biocoenosis of foliate forests and taiga is discussed. Summary in French, p. 243-49.

**Copy seen:** DLC; MH-A.

**21870. FORMOZOV, ALEKSANDR NIKOLAEVICH.** Snezhnyi pokrov kak faktor sredy, ego znachenie v zhizni mlekopitaushchikh i ptits SSSR. Moskva, 1946. 141, xi p., illus., text maps. (Moskovskoe obshchestvo ispytatelei prirody. Materialy k poznaniyu fauny i flory SSSR. Otdel. zool. Novaya seriia, vyp. 5 (XX) **Title tr.:** Snow cover as an environmental factor and its importance in the life of mammals and birds of the U.S.S.R.)

"The physical properties and biological influences of snow cover are discussed. Data are presented on the depth and duration of the snow cover in tundra, forest, steppe, desert and mountain areas in the U.S.S.R. This information was gathered from hydro-meteorological services, travelers, and other sources from ancient times to the present. The effect of the snow cover on the habits of mammals and birds is analyzed in an attempt to apply the data for the improvement of living conditions for man in the far north."—SIPRE. The animals' mobility, hunt for food, hibernation are dealt with, as well as distribution and migration of certain mammals including reindeer, and the rôle of snow cover in the history of development of Quaternary fauna. Bibliography (203 items). Summary in French, p. i-xi.

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**21871. FORMY POGREBENIĖ U NARODOV VOSTOCHNOY ROSSII.**

(Kazan. Universitet. Obshechestvo arkhologii, istorii i étnografii. Izvestiia, 1892. t. 10, p. 80-92, 195-204, 280-299, 392-404) **Title tr.:** Forms of burial among the peoples of eastern Russia.

**Contains** extracts from books and papers on the burial customs among the Kamchadals (p. 80-81), Koryaks (p. 81-82), Chukchis (p. 82-83), Yakuts (p. 84-90), Gilyaks (p. 289-90), Tungus (p. 292-93), Dolgans (p. 293), Samoyeds (p. 295-97), Ostyaks (p. 297-98), Yurak Samoyeds (p. 298-99), Lapps (p. 392-94), Voguls (p. 394-96), and other (non-arctic) peoples. **Copy seen:** InU.

**21872. FORREST, GLADYS, and B. F. HEINTZLEMAN.** Land resources of Alaska; policies and laws controlling their use, prep. by G. Forrest. With a section on forest resources by B. F. Heintzleman. Portland, Ore., 1944. ii, 80 p., 2 fold. maps. (North Pacific Planning Project. North Pacific Study. [No. 14]) Mimeographed.

**Contains** chapters on (1) status of lands; area, management policy, preliminary classification of lands, territorial lands; (2) forests; (3) agriculture: climate, economics, colonization project, regional analysis, homesteading, grazing lands, Indian allotments, soldiers' entries; (4) mineral lands: production, exploration, claims, permits and leases; (5) wildlife: fur-bearing animals, fur farming, game, licenses; (6) recreational areas; (7) trade and manufacturing sites, town sites, mission sites, shore space restrictions and reservations, landing and wharf permits, Indian reservations. Bibliography (98 items).

**Maps:** (1) land districts showing transportation facilities and principal agricultural areas; (2) national reserves.

**Copy seen:** DI.

**21873. FORSIUS, RUNAR, 1884-1935.**

Kleinere Beiträge zur Kenntnis der Tenthrediniden, IV. (Notulae entomologicae, 1923. v. 3, no. 2, p. 51-54) **Title tr.:** Small contributions to the knowledge of Tenthredinoidea, IV.

**Contains** a description of *Pontania pustulator* n. sp., found on *Salix phylicifolia* in Sodankylä and Petsamo in Finnish Lapland, and *Euura lanatae* producing galls on *Salix lanata* in the Petsamo region.

**Copy seen:** DLC; MH-Z.

**21874. FORSIUS, RUNAR, 1884-1935.**

Kleinere Mitteilungen über Tenthrediniden, V. (Notulae entomologicae, 1932, v. 12, no. 1, p. 15-18) **Title tr.:** Small communications on Tenthredinoidea, V.

**Contains** critical notes on ten species of sawflies from various regions, including *Ametastegia montana* (= *A. wuorentausi*) native to Kamchatka Peninsula; pts. I-III of this series do not contain arctic material.

**Copy seen:** DLC; MH-Z.

**21875. FORSIUS, RUNAR, 1884-1935.**

Über die von Wuorentaus in Kamtschatka gesammelten Tenthrediniden. (Notulae entomologicae, 1928. v. 8, no. 2, p. 43-50) **Title tr.:** On Tenthredinoidea collected in Kamchatka by Wuorentaus.

**Contains** a list of 28 species (in 20 genera) of sawflies collected by Y. Wuorentaus in Kamchatka Peninsula in 1917, with descriptions of *Empria camtschatica*, *Ametastegia wuorentausi*, *Pontania camtschatica* n. spp., and three new varieties; 14 of the species are new to the fauna of Kamchatka.

**Copy seen:** DLC; MH-Z.

**21876. FORSIUS, RUNAR, 1884-1935.**

Weitere Beiträge zur Kenntnis der Tenthrediniden Finnlands. (Notulae entomologicae, 1933. v. 13, no. 1-2, p. 4-10) **Title tr.:** Further contributions to the knowledge of Tenthredinoidea of Finland.

**Contains** description of *Emphytus autumnalis*, n. sp., and critical notes, data on distribution, corrections, etc., on about 70 species of sawflies of Finland. Published as supplement to the author's *Verzeichnis aus dem Lojo-Gebiete bekannt gewordenen Tenthrediniden*, 1919, this paper (but not the original publication) includes some species native to Finnish Lapland.

**Copy seen:** MH-Z.

**21877. FORSIUS, RUNAR, 1884-1935,**

**and A. NORDSTROM.** Zur Kenntnis der Vespiden Finnlands. (Notulae entomologicae, 1923, v. 3, no. 1, p. 1-9, text map) **Title tr.:** A contribution to the knowledge of wasps of Finland.

**Contains** a systematic list of 33 wasps occurring in Finland, with data on their distribution and a table of distribution in Finland and Kola Peninsula, p. 7; includes ten species native to Finnish Lapland, some spreading to Kola Peninsula.

**Copy seen:** DLC; MH-Z.

**FORSIUS, RUNAR, 1884-1935**, see Nordström, Å., & R. Forsius. Über d. Psammocharidae. 1928. No. 24708.

**21878. FORSMAN, BROR.** Weitere Studien über die Rassen von *Jaera albifrons* Leach. (Zoologiska bidrag från Uppsala. 1949. Bd. 27, p. 449-63, illus.) **Title tr.:** Further studies of the races of *Jaera albifrons* Leach.

**Contains** a study of a marine crustacean, *Jaera albifrons*, divided by the author into four subspecies distinguishable only in the adult males, including *J. albifrons albifrons* (Greenland waters), *J. a. ishio-setosa* n. ssp. (White Sea) and *J. a. prachirsuta* n. ssp. (Greenland Sea and West Greenland waters). Summary in English. **Copy seen:** MH-Z.

**21879. FORSSLUND, KARL HERMAN, 1900-**, and **BO TJEDER.** Catalogus insectorum Sueciae, II. Trichoptera. (Opuscula entomologica, 1942). Bd. 7, häft. 3-4, p. 93-107, text map) **Title tr.:** Insect catalog of Sweden, II. Trichoptera.

**Contains** descriptions of two new genera and one new subspecies and tabulated data on distribution of 204 species of caddis flies (Trichoptera) in thirty natural regions of Sweden, including five subdivisions of Swedish Lapland. For other parts, see *Catalogus insectorum Sueciae*, I-.

**Copy seen:** DA; MH-Z.

**21880. FORSSLUND, KARL HERMAN, 1900-**. For Sverige och Norge nya Trichoptera och Neuroptera. (Entomologisk tidskrift, 1930. Årg. 51, häft. 1, p. 83-85) **Title tr.:** Trichoptera and Neuroptera new to Sweden and Norway.

**Contains** a list of 18 species new to the fauna of Sweden and Norway, including six found in Swedish Lapland, with data on their total distribution.

**Copy seen:** DA; MH-Z.

**21881. FORSSLUND, KARL HERMAN, 1900-**. *Lygaeonematus subarcticus* Forssl., *L. pallidus* Konow und *L. stecki*. (Entomologisk tidskrift, 1939. Årg 60, häft. 1-2, p. 105-107, illus.)

**Contains** a comparative taxonomic study of these three closely related sawflies, the first species, *Lygaeonematus subarcticus*, native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**21882. FORSSLUND, KARL HERMAN, 1900-**. Eine neue Fichten-Blattwespe (*Lygaeonematus subarcticus*

n. sp.) aus Schwedisch-Lappland. (Entomologisk tidskrift, 1936. Årg. 57, häft. 1, p. 14-22, illus.) **Title tr.:** A new pine sawfly (*Lygaeonematus subarcticus* n. sp.) from Swedish Lapland.

**Contains** descriptions of imago and larva of this new sawfly, an enemy to young pines, found in Tärna and Stensele parishes in Swedish Lapland; with illustrations, dimensions and data on biology.

**Copy seen:** DA; MH-Z.

**21883. FORSSLUND, KARL HERMAN, 1900-**. Eine neue melanistische *Neuronia varietal* (Trich.). (Entomologisk tidskrift, 1933. Årg. 54, häft. 1, p. 36) **Title tr.:** A new dark-colored *Neuronia* variety.

**Contains** a description of *Neuronia lapponica hyperborea*, a new dark-colored variety of caddis fly from Swedish Lapland.

**Copy seen:** DA; MH-Z.

**21884. FORSSLUND, KARL HERMAN, 1900-**. Om utbredningen av några skandinaviska Trichoptera. (Entomologisk tidskrift, 1928. Årg. 49, häft. 2, p. 51-59) **Title tr.:** On the distribution of some Scandinavian Trichoptera.

**Contains** a list of about 80 Scandinavian caddis flies with localities and occasional critical notes, including 15 species new to the fauna of Sweden and 14 native to Swedish Lapland. Summary in German.

**Copy seen:** DA; MH-Z.

**21885. FORSSLUND, KARL HERMAN, 1900-**. Revision der Zetterstedtschen Trichopteren aus Lappland. (Entomologisk tidskrift, 1929. Årg. 50, häft. 3-4, p. 185-95) **Title tr.:** Revision of Zetterstedt's Trichoptera from Lapland.

**Contains** a critical revision of caddis flies (Trichoptera) described by Zetterstedt in his *Insecta lapponica*, 1840, q. v., based on the study of his collection in the Entomological Museum of University of Lund, with a list of 53 species of *Phryganea* and three of *Hydroptila*. Critical notes, a list of synonyms, a list of seven species not yet found in Lapland are given, also another list of nine species wrongly recorded from Lapland by Zetterstedt. **Copy seen:** DA; OU.

**21886. FORSSLUND, KARL HERMAN, 1900-**. Svenska myror, 1-10 (Schwedische Ameisen 1-10. (Hym. Formicidae)). (Entomologisk tidskrift,

1947. Årg. 68, häft. 1-2, p. 67-80, illus.) **Title tr.:** Swedish ants, 1-10, Hym. Formicidae.

Contains critical notes and data on Scandinavian and total distribution of ten species of Swedish ants, including five native to Swedish Lapland; bibliography (30 items). Pt. 11-14 of this work was published in 1949 (see below). Summary in German.

**Copy seen:** DA; MH-Z.

**21887. FORSSLUND, KARL HERMAN, 1900-** . Svenska myror, 11-14. Schwedische Ameisen, 11-14. (Hym. Formicidae). (Entomologisk tidskrift, 1949. Årg. 70, häft. 1-2, p. 19-32, illus.) **Title tr.:** Swedish ants, 11-14.

Contains descriptions and data on distribution of four species of Swedish ants, including *Formica uralensis*, occurring in Aeksele and Lycksele Lappmark, and a bibliography (24 items). This is a continuation of the author's work (pt. 1-10) published in 1947, q. v.

**Copy seen:** DA; MH-Z.

**21888. FORSSLUND, KARL HERMAN, 1900-** . Über die Gattung *Autogneta* Hull (Acari, Oribatei). (Zoologiska bidrag från Uppsala, 1947. Bd. 25, p. 111-17, illus.) **Title tr.:** On the genus *Autogneta* Hull.

Contains data on characteristic of the genus *Autogneta*, a table for the determination of the species and descriptions of four species of these mites inhabiting Sweden, including *A. trågårdhi* n. sp. found in Abiskojoek, Torne Lappmark.

**Copy seen:** MH-Z.

**21889. FORSSLUND, KARL HERMAN, 1900-** . Zur Kenntnis der Trichopteren Grönlands. (Entomologisk tidskrift, 1932. Årg. 53, häft. 1, p. 56-59) **Title tr.:** A contribution to the knowledge of Greenland Trichoptera.

Contains a list of nine caddis flies (Trichoptera) from Greenland, deposited in the collections of the State Museum at Stockholm, with critical notes and a description of *Limnophilus ornatus* also known from Canada and Alaska.

**Copy seen:** DA; MH-Z.

**21890. FORSSLUND, KARL HERMAN, 1900-** . Zwei neue *Apotelia*-Arten (Trich., Limnophilidae); vorläufige Mitteilung. (Entomologisk tidskrift, 1930. Årg. 51, häft. 3-4, p. 216-18) **Title tr.:** Two new *Apotelia* species (Trichoptera, Limnophilidae); a preliminary communication.

Contains preliminary descriptions of two new caddis flies, *Apotelia hispida* and *A. auricula* n. spp., the first native to Torne Lappmark in northern Sweden, and Saltdalen, northern Norway, and the second found in Kiruna, Swedish Lapland and the Enontekis region of northern Finland. **Copy seen:** DA; MH-Z.

**21891. FORSTER, R. E., II, and others.** The relationship between total heat exchange and blood flow in the hand at various ambient temperatures. (American journal of physiology, July 1946. v. 146, p. 600-609, 7 fig.) Other authors: B. G. Ferris, Jr., and R. Day.

Contains a study based on data obtained with the "Hand Pletysmo-Calorimeter," a new apparatus which measures blood flow and heat loss in the hand by radiation, convection and evaporation. The measurements were made with the entire body exposed to temperatures of 15° to 38° C.; blood flow as low as 0.15 cc. per 100 cc. of hand tissue was recorded after exposure of the body to cold for several hours. Bibliography (12 items).

**Copy seen:** DLC.

**21892. FORTIER, GUY, and L.-P. DUGAL.** Andrénaline et résistance au froid. (Revue canadienne de biologie, Juillet 1952. v. 11, no. 2, p. 185-89, 2 fig., table) **Title tr.:** Adrenalin and the resistance to cold.

Contains a report on experiments with rats kept at 0° C., which demonstrated that adrenalin alone, or combined with ascorbic acid, has no beneficial effect for resistance and acclimatization to cold. Earlier results on the importance of ascorbic acid in the same conditions are confirmed. Bibliography (9 items). Summary in English.

**Copy seen:** DLC.

**FORTIER, GUY, see also Dugal, L.-P., & G. Fortier.** Ascorbic acid & acclimatization cold in monkeys. 1952. No. 21559.

**FORTIER, GUY, see also Dugal, L.-P., & G. Fortier.** Ascorbic acid & acclimatization cold in monkeys. 1952. (abstract) No. 21560.

**21893. FOSLIE, MIKAL HEGGELUND, 1855-1909.** Algologiske notiser, V. (Norske videnskabers selskab, Trondhjem. Skrifter, 1908, no. 7, p. 1-20) **Title tr.:** Algological notes, V.

Contains critical notes of 19 species of marine algae, including *Lithothamnion*

laeve and *Clathromorphum compactum* from northern Norway, Greenland, Spitsbergen and Ellesmere Island waters. Other parts of this work do not include arctic material.

**Copy seen:** DLC; MH.

**21894. FOSLIE, STEINAR.** Håfjells-  
mulden i Ofoten og dens sedimentære  
jern-mangan-malmer. Søndre Ofotens  
malmforekomster II. Oslo, H. Aschehoug  
& Co., 1949. 129 p. illus., 6 plates, 2  
fold. maps, diagrs. (Norway. Geologiske  
undersøkelse. Nr. 174) **Title tr.:** The  
Håfjell syncline in Ofoten and its sedi-  
mentary iron-manganese ores. Southern  
Ofoten's ore deposits II.

**Contains** an account of stratigraphic  
and structural relations, and of petrologic  
and mineralogic features of what is con-  
sidered to be a Cambro-Silurian series  
(region of 68°30' N. 16°40' E.) in northern  
Norway; this has two widely separated  
iron-bearing horizons, the upper of which  
contains manganiferous zones mainly  
recrystallized to silicates. Summary in  
English.

**Copy seen:** DGS.

**21895. FOSS, M. E.** Kul'turnye svyāzi  
severa vostochnoi Evropy vo II tysā-  
cheletii do nashel' éry. (Sovetskaiā  
étnografiā, 1948. no. 4, p. 23-35, illus.,  
map) **Title tr.:** Cultural links of  
northeastern Europe in the second  
millennium before our era.

**Contains** a review and analysis of  
archeological material of the period and  
area concerned. On this basis the author  
concludes that from the neolithic epoch  
the ancient tribes inhabiting the northern  
half of European Russia did not lead an  
isolated life but were in close cultural  
contact with other groups even across  
considerable distances, with interchange  
of tools, raw materials, etc. Probable  
routes of these exchanges are recon-  
structured, including some in the Kola and  
Arkhangel'sk-Pechora region. Bibliog-  
raphical footnotes. **Copy seen:** DLC.

**21896. FOSS, M. E.** Neoliticheskīe  
kul'tury severa evropelskoi chasti SSSR.  
(Sovetskaiā arkheologiā, 1947. v. 9, p.  
29-46, illus., 3 plates, map) **Title tr.:**  
Neolithic cultures of the North European  
part of the U.S.S.R.

**Contains** a summary of investigations  
conducted during the preceding two  
years in this area. The excavations  
suggest that three material cultures  
existed in the North, between the end of  
the third and the middle of the first

millennium B. C.: (1) the Karelian culture,  
in the area between the White Sea and  
Lake Lodoga; (2) the Belomorska culture,  
east of the former, in the basin of Lake  
Lacha, Vozha and Belye, and (3) the  
Kargopolska culture, along the south-  
eastern shores of the White Sea. A  
description of the finds is given and the  
outstanding characteristics of each of the  
three cultures analyzed and evaluated.  
A synchronization with southern cultures  
indicates that the earliest northern  
coincided with the bronze age, the latest  
with the early iron age. Bibliographical  
footnotes. Summary in French.

**Copy seen:** DLC.

**21897. FOSTER, L. B.** A tourist's  
impression of Canada's North. (Weather,  
London, Aug. 1951. v. 6, no. 8, p. 228-32,  
fig.)

Account of a flight from Nova Scotia to  
Resolute Bay, Cornwallis Island to Goose  
Bay, Labrador in June 1950.

**Copy seen:** DWB.

**FOSTER, W. W.,** see Alpine Club of  
Canada. Mount Logan Expedition.  
1925. No. 20155.

**21898. FORT, LYMAN and MILTON  
HARRIS.** Physical properties of clothing  
fabrics. (In: Newburgh, L. H. ed.  
Physiology of heat regulation and the  
science of clothing, 1949, p. 291-319,  
illus., diagrs., tables)

**Contains** an account based on labora-  
tory tests and concerned with properties  
related to human comfort and efficiency  
only. Includes sections on structural  
properties of fabrics; clothing and sur-  
rounding air; heat conduction through  
clothing; fabrics in relation to radiation,  
water, vapor, etc. Bibliography (30  
items).

**Copy seen:** DLC.

**FOWLE, FREDERICK EUGENE.**  
1869- . see Abbot, C. G., & F. E.  
Fowle. Volcanoes & climate. 1913.  
No. 20026.

**21899. FOX, Sir CYRIL SANKEY.**  
1886- . The mineral resources of Soviet  
Russia. (Mining magazine, Oct. 1950.  
v. 83, p. 201-11, 2 maps, tables)

"A brief review, with an assessment of  
the present position in Russia," including  
brief reference to the Kola Peninsula, and  
to the coal, gold and nickel deposits of  
the Soviet North.

**Copy seen:** DGS.

**21900. FRANCK, HARRY ALVERSON.**  
1881- . A Scandinavian summer; im-

pressions of five months in Denmark, Finland, Sweden, Norway, and Iceland. New York, The Century Co., 1930. xvi, 397 p. plates, map on lining papers.

*Contains impressions of an American tourist's trip, including Swedish Lapland (p. 215-43, 6 plates): his visit to the Lapp summer encampment of Aitejokk (near Gällivare), spending the night in a Lapp school-house; comment on costumes, reindeer herd, the religious sect of Laestadius and its repressive effect on the Lapps. Author found Lapps timid and self-contained, never admitting surprise or seeming impressed by foreign things. "Hay socks" are said to be still preferred, woolen socks being used only for sleep. Electrification, motorboats, and tourist camp-hotels in Lapland are noted, and mining of iron at Kiruna.*

*Copy seen:* DLC.

**21901. FRANKCOM, C. E. N.** Shipping operations in the Hudson Bay. (Marine observer, Oct. 1952. v. 22, no. 158, p. 219-22, 2 sketch maps)

*Contains remarks on potential importance of Churchill as a port (only 180 miles farther from Liverpool than the principal Canadian port of Montreal), and on the use of the Hudson Bay route as governed by physical conditions, notably ice and fog. Data are presented on ice conditions to show the port's open season extended from Aug. 10-Sept. 30 in 1933 to July 26-Oct. 10 in 1950. New navigation aids (gyro compass, radar, etc.) and facilities provided by Canadian Government are stated so to have improved conditions as to effect marked reduction in marine insurance rates for the Bay route. Meteorological conditions are noted and average ice conditions for Feb. and Aug. indicated on sketch maps. This paper is based largely on the Great Britain Commonwealth Shipping Committee tenth (1951) Report on Hudson Bay marine insurance rates issued by Great Britain Commonwealth Shipping Committee.*

*Copy seen:* DLC.

**21902. FRANTZ, JOHN A., and J. L. A. ROTH.** Metabolic balances in the cold environment, 2. Energy exchanges. (Federation proceedings, Mar. 1948. v. 7, p. 35-36)

*Contains a report on energy exchange in human subjects, living at a temperature of -32° C. and on a U.S.A.F. emergency ration, with fasting individuals providing controls. The experiments showed that*

"food appears to be of secondary importance to the adequacy of clothing and sleeping-bag for survival in low ambient temperatures."

*Copy seen:* DLC.

**FRANTZ, JOHN A.,** *see also* Roth, J. L. A., & J. A. Frantz. Metabolic balances 1, nitrogen & water. 1948. No. 25671.

**21903. FRANZ, H.** Beiträge zur Curculioniden Systematik. (Vienna. Naturhistorisches Museum. Annalen, 1944-47, pub. 1947. Bd. 55, p. 210-64, illus.) *Title tr.:* Contributions to the systematics of Curculionidae.

*Contains a critical revision of snout beetles (Curculionidae) of the genus Miarus, occurring in Europe, with tables for the determination of species, a catalog of palaearctic forms and descriptions of ten species (subgen. Hemimiarus and five species described as new) including Miarus frigidus n. sp. native to Lapland.* *Copy seen:* DSI-M; MH-Z.

**21904. FRANZ, H.** Zur Kenntnis der Synonymie und Verbreitung von *Bibloporus minutus* Raffr. (Coleopt., Pselaphidae). (Entomologisk tidskrift, 1950. Årg. 71, häft. 3-4, p. 168-70) *Title tr.:* A contribution to the knowledge of synonymy and distribution of *Bibloporus minutus* Raffr.

*Contains a study of synonymy and distribution of a beetle, Bibloporus minutus, with a list of European and Scandinavian localities, including Ruskträsk in Lycksele Lappmark, Sweden.*

*Copy seen:* DA; MH-Z.

**21905. FRANZ, J.** Über Ernährung und Tagesrhythmus einiger Vögel im arktischen Winter. (Journal für Ornithologie, 1943. Bd. 91, p. 154-65) *Title tr.:* Nutrition and diurnal rhythm of some birds in arctic winter.

*During two winterings, 1941-43 at about 67° N. 30°30' E. on the Kandalaksha front (World War II), the author sought to determine (1) which species of birds wintered, (2) duration of the activity of day birds during the polar night, (3) how duration of activity altered with the coming of light in the spring, and (4) what influence weather factors had on duration of activity. This report answers these questions and shows the food of some of the 26 species observed. Bibliography (6 items).*

*Copy seen:* DSI-M.

**21906. FRASER, HARVEY.** Doom in the dark. (Alaska sportsman, Oct. 1951. v. 17, no. 10, p. 6-9, 39-40, illus.)

Account by a survivor of the sinking of *S. S. Islander* in Aug. 1901, in Stephens Passage, ten miles south of Juneau, Alaska.

**Copy seen:** DI.

**21907. FRASER, J. KEITH.** Canadian Ice Distribution Survey. (Arctic circular, Oct. 1952, v. 5, no. 5, p. 56; reprinted in Arctic, Oct. 1952, v. 5, no. 3, p. 195)

Contains brief account of a project of the Geographical Branch of the Dept. of Mines and Technical Surveys of Canada begun in 1948. The project concerns floating ice in Beaufort Sea, Canadian Arctic Islands waters, Hudson and James Bays, Baffin Bay-Davis Strait, Labrador coast, also more southerly waters, and (later) inland waters. Data on ice conditions have been extracted from reports published prior to 1905, and information filed according to regions; 2,700 references have been tabulated on cards, which have been distributed to interested agencies and organizations.

**Copy seen:** CaMAI; DLC.

**21908. FRAZER, J. KEITH.** Identification of Petitot's Rivière La Roncière-le Noury. (Arctic, Dec. 1952. v. 5, no. 4, p. 224-34, illus., maps)

Contains a study of explorations in the Horton and Hornaday River regions of northern Mackenzie District. Evidence is presented to suggest that the river discovered and mapped (excepting lower reaches) by the Oblate missionary Émile Petitot in 1868 is identical with the Hornaday. The latter, discovered by A. J. Stone in 1900 was explored only near its effluence into Darnley Bay. Recent mapping from aerial photographs show the source of the Hornaday (68°40' N. 120°20' W.) and features of its course as similar to those recorded for La Roncière-le Noury by Petitot in his *Géographie de l'Athabaskaw-Mackenzie* . . . 1875 (Arctic Bibliography, No. 13406).

**Copy seen:** DLC.

**FRASER, J. KEITH,** see also Canada. Dept. of Mines & Technical Surveys. Geographical Branch. Introduction to geography of Canadian Arctic. 1951. No. 21096.

**21909. FREBOLD, HANS, 1899-** Stratigraphie und Brachiopodenfauna des marinen Jungpalaeozoikums von

Holms und Amdrups Land (Nordostgrönland). København, C. A. Reitzel, 1950.

97 p., 6 l., illus. (incl. 3 maps), 6 plates, maps. (Meddelelser om Grønland, Bd. 126, no. 3. Issued also as: Copenhagen, Universitet. Mineralogisk-geologiske museum. Communications géologiques. No. 37) **Title tr.:** The stratigraphy and late Paleozoic brachiopod fauna of Holms and Amdrups Land (northeastern Greenland).

Results of the Dansk Nordostgrönlands ekspedition (Danish Northeast Greenland Expedition) 1938-39, making investigations in the land region lying (roughly) between 80°-81° N. 74°20'-78°20' W. under the leadership of E. Munck and E. Knuth. Following a description of six profiles in both Holms and Amdrups Land, based on studies and sketches of Eigil Nielsen, 1938-39, and a discussion of the profiles' correlation, the author describes thirty species of fossil brachiopods; and analyzes the character of the two Permo-Carboniferous marine series occurring in the region on the basis of the described fauna. He correlates the series with the late Paleozoic of southeastern Greenland. West Spitsbergen, Bjørnøya, and Novaya Zemlya; discusses their age in relation to the Russian late Paleozoic and the "middle" carboniferous of Bjørnøya and West Spitsbergen, concluding that both the series are Permian. Finally he remarks on the paleogeography and age of late Paleozoic orogenic phases in the region of East Greenland-West Spitsbergen-Bjørnøya. Bibliography (58 items).

**Copy seen:** DGS.

**FREBOLD, HANS, 1899-**, see also MacDonald, S. D. Biological investigations on Pr. Patrick Island. 1951. No. 24075.

**21910. FREDERIKSEN, SVEND.** Aspects of European influence in West Greenlandic poetry. (Midwest folklore. 1952. v. 2, no. 4, p. 251-61)

Contains discussion of Eskimo poetry and the question of "pure love" which was unknown to the earlier Eskimo poems. European influence (through the German Moravian mission) is traced and some of the changes it brought about. The paper is based on texts published by William Thalbitzer. **Copy seen:** DLC.

**21911. FREDERIKSEN, SVEND.** European influences in the poetry of Green-

land. (Georgetown College journal, Apr. 1951. v. 79, no. 6, p. 3-12)

Author discusses characteristics of style, motif, expression, etc., in Greenlandic songs which show traces of European, particularly Danish, culture and ways of thinking.

*Copy seen:* CaMAI.

**21912. FREDERIKSEN, SVEND.** Henrik Lund, a national poet of Greenland. (American Philosophical Society. Proceedings, 1952. v. 96, no. 6, p. 653-59)

*Contains* life story (1875-1948) and critical evaluation of poems written by a native Eskimo author.

*Copy seen:* DLC.

**FREEDMAN, A.,** *see* Horvath, S. M., & others. Acclimatization to extreme cold. 1947. No. 22711.

**FREEDMAN, JACOB, 1911-** *see* Barnes, F. F., & others. Coal investigations in south-central Alaska 1944-46. 1951. No. 20470.

**21913. FREEMAN, HARRY, 1903-** *and* R. F. NICKERSON. Skin and body temperatures of normal individuals under cold conditions. (Journal of nutrition, June 1938. v. 15, p. 597-606, diags.)

Results of study of ten normal subjects exposed for two hours to temperatures of 20° C. and 15° C. Skin temperatures fall markedly at both temperatures; rectal temperatures show little change for an hour, then fall more rapidly at 20° C. than at 15° C., individuals vary significantly especially in the extremities; rate of fall of skin temperature is independent of initial level of rectal temperature; and the average levels of skin and rectal temperatures are slightly related to each other but in a negative direction.—From authors' summary.

*Copy seen:* DLC.

**21914. FREEMAN, THOMAS NESBITT, 1911-** *Manual of arctic survival and useful Eskimo words.* Ottawa, Dept. of Agriculture, 1950. 22 p. (Its: Science Service. Miscellaneous pub. series, Entomology ME 1)

*Contains* brief notes based on U. S. War Dept. Arctic Manual (Arctic Bibliography No. 18410) on (1) limits of arctic and subarctic, ice, mirage, northern lights, administration, game regulations, etc. in the Canadian North; (2) survival: forced landing, signalling, shelter, travel, snow blindness, compass, edible plants

and game. Then follows (p. 8-22) lists of English words and expressions (about 300 altogether) for insects, plants, animals, weather, time, etc., and various activities, with Eskimo equivalents based on the dialects of Baker Lake (Kee-watin), Port Harrison, Fort Chimo (Labrador) and Southern Baffin Island Eskimos. *Copy seen:* CaMAI; DGS.

**21915. FREEMAN, THOMAS NESBITT, 1911-** *The Northern Insect Survey for 1950.* (Arctic circular, Nov. 1950, v. 3, p. 55-56)

Note on continuation of a project begun in 1947, under control of the Defence Research Board of Canada and the Division of Entomology, Department of Agriculture, Ottawa; lists seven stations established for 1950, briefly states the program and discusses results already gained from earlier research.

*Copy seen:* CaMAI.

**21916. FREEMAN, THOMAS NESBITT, 1911-** *The Northern Insect Survey for 1951.* (Arctic circular, Dec. 1951. v. 4, no. 6, p. 85-87)

During 1951 the Canadian Dept. of Agriculture sent eleven field parties consisting of entomologists and botanists to Alaska (4), Northwest Territories (5), Yukon (1), Newfoundland (1) "to continue studies of the distribution, relative abundance, and ecology of northern biting flies begun in 1947 . . . and to collect material for the Canadian National Collection of Insects as well as specimens for the Division of Botany's collection of plants. Approximately 125,000 insects and 7000 plants were obtained. These include significant distributional extensions of many species, as well as some new species and subspecies." Brief notes are given on the field work at each locality, 38 in all having been investigated in the course of the Northern Insect Survey 1947-51.

*Copy seen:* CaMAI; DLC.

**21917. FREEMAN, THOMAS NESBITT, 1911-** *Some problems of insect biology in the Canadian Arctic.* (Arctic, Oct. 1952. v. 5, no. 3, p. 175-77, map)

*Contains* summary (by the coordinator) of the Northern Insect Survey, begun in 1947 to study distribution, relative abundance and biology of species of biting flies and other insects in arctic and subarctic Canada. By the end of 1952, 46 areas will have been investigated; each year approx. 125,000 specimens are

collected, including several new species and many extensions of previously known ranges. On the basis of these collections, the close relationship between the palaearctic and nearctic insect faunas, the tundra and forest division, the large variations within the species, etc. are briefly discussed.

**Copy seen:** CaMAI; DLC.

**FREEMAN, THOMAS NESBITT, 1911-**, see also Munroe, E. C. Field notes butterflies Knob Lake. 1951. No. 24538.

**21918. FREĬMAN, S. IŮ.** O migratsi-  
iakh grenlandskogo tŭleniā. (In: Sbornik N. M. Knipovicha, 1939, p. 353-68, illus.) **Title tr.:** The migration of the Greenland seal.

**Contains** a study of migration of this seal (*Histiophoca groenlandica* Fabr.) to the ice-covered section of the White Sea during three important stages (breeding, mating and moulting) of its life cycle. The influence of various ecological factors on this phenomenon are considered, and the scheme of migration for different age and sex groups presented. Summary in English.

**Copy seen:** MH-Z.

**21919. FRENKEL', G. L.** Nekotorye eksperimental'nye predposylki primeneniā ul'trakorotkikh radiovoln v khirurgicheskoi praktike. (Vestnik khirurgii, Apr. 1941. t. 21, kn. 4, p. 435-45, 10 fig.) **Title tr.:** Some experimental prerequisites for the application of ultra-short radio waves in surgery.

**Contains** an analysis of the physiological activity of these waves and the advisability of their use in inflammatory processes, infected wounds, fractures, frostbite, etc. With regard to frostbite, the possibility of using them for rewarming and for the therapy of sequelae, are discussed. Bibliography (over 30 items).

**Copy seen:** DLC.

**21920. FREUCHEN, PETER, 1886-**. Out of the stone age. (Beaver, Sept. 1951. Outfit 282, no. 2, p. 3-9, illus.)

**Remarks** on Eskimo life in the Canadian Arctic as known to the author more than thirty years ago and now, with comment that contacts with the white man has bettered natives' hazardous and insecure existence, and that systematized trading (as of Hudson's Bay Co.) giving the Eskimos modern tools and weapons, has resulted in "great benefits to natives of the Arctic".

**Copy seen:** DLC.

**FREUD, SIGMUND, 1856-1939,** see Lagercrantz, E. Entwicklungspsychologische Analyse. 1950. No. 23589.

**21921. FREY, RICHARD, 1886-**. En anmärkningsvärd insektst Standort vid Viisjoki (Ik). (Notulae entomologicae, 1933, v. 13, no. 3-4, p. 81-87, illus.) **Title tr.:** A remarkable insect locality near Viisjoki (Ik).

**Contains** a description of a very rich insect fauna near Viisjoki, Russian Karelia, including a diagnosis of *Dicocercina psilopina* n. sp., native to Karelia and Finnish Lapland (Muonio and Vuontisjärvi)

**Copy seen:** DLC; MH-Z.

**21922. FREY, RICHARD, 1886-**. Anteckningar om Finlands agromyzider. Anhang: Beschreibungen neuer oder wenig bekannten Agromyziden aus Finnland. (Notulae entomologicae, 1946, v. 26, no. 1-2, p. 13-55) **Title tr.:** Notes on Finnish Agromyzidae. Supplement; descriptions of new or little known Agromyzidae from Finland.

**Contains** a survey of literature data on leaf miners of Finland, a list of 29 Finnish species of Agromyzidae with data on distribution, p. 17-20, an essay on characteristics of agromyzid fauna of special biotopes (p. 20-42) arranged by provinces (data on Lapland, p. 37-42) with lists of species, their host plants and various tables, in German supplement, p. 42-55. A synopsis of the species for each genus and a list of Finnish species is given, including diagnoses of eleven new species and five new varieties.

**Copy seen:** DLC; MH-Z.

**21923. FREY, RICHARD, 1886-**. Beschreibung einer neuen *Pedicia*-Art aus dem nördlichen Europa (Diptera. Tipulidae). (Notulae entomologicae, 1921. v. 1, no. 4, p. 110-11, illus.) **Title tr.:** Description of a new *Pedicia* species from northern Europe.

**Contains** a German diagnosis of *Pedicia arctica* n. sp. found by W. Hellén and the author in the tundra near Ponoy on Kola Peninsula in July 1913.

**Copy seen:** DLC; MH-Z.

**21924. FREY, RICHARD, 1886-**. Dipterfauna vid Tana alv i Utsjoki sommaren 1949. Mit einem Abhang: Synonymische Bemerkungen einiger neuen Diptera brachycera aus Utsjoki in Finnisch-Lappland. (Notulae entomologicae, 1950. v. 30, no. 1-2, p. 5-18,

illus.) **Title tr.:** Dipterous fauna of Tana River valley in Utsjoki in the summer of 1949, with a supplement: Systematic notes on some new Diptera brachycera from Utsjoki in Finnish Lapland.

**Contains** the results of the study of dipterous fauna of Utsjoki region in northern Lapland, with an enumeration of about two hundred dipters and a list of synonyms and descriptions of three new species and one new variety in German supplement, p. 13-17; two species are also new to the fauna of Finland; many rare species are recorded. Summary in English. **Copy seen:** DLC; MH-Z.

**21925. FREY, RICHARD, 1886- .** Entwurf einer neuen Klassifikation der Mückenfamilie Sciaridae. (Notulae entomologicae, 1942. v. 22, no. 1-2, p. 5-43, illus.) **Title tr.:** An outline of a new classification of the gnat family Sciaridae.

**Contains** a general sketch of dipterous family Sciaridae, a discussion of the origin, development and systematic standing of this family, comparison with Mycetophilidae and critical notes on some genera and species, a table for determination of the genera (p. 20-25), and descriptions of 42 genera and some new species; includes *Lestremioides borealis* n.gen. n.sp. found in Inari Lappmark, Finland; bibliography (48 items).

**Copy seen:** DLC; MH-Z.

**21926. FREY, RICHARD, 1886- .** Entwurf einer neuen Klassifikation der Mückenfamilie Sciaridae (Lycoriidae), II. Die nordeuropäischen Arten. (Notulae entomologicae, 1947, pub. 1948. v. 27, no. 2-4, p. 33-92, plates 3-22 [p. 93-112]) **Title tr.:** An outline of a new classification of gnat family Sciaridae (Lycoriidae) II. North European species.

**Contains** data on systematics, morphology and phylogeny of dipterous family Sciaridae (Lycoriidae), p. 32-44; synopses of the genera and species with brief descriptions of 48 new species and three new varieties, p. 44-73; and a list of 123 North-European species with data on habitat and distribution in Finland (if the species is not found in Finland, its distribution in Europe is given, especially in Scandinavia and Kola Peninsula). Many species native to northern regions of Fennoscandia are included. This is a continuation of the author's *Entwurf einer neuen Klassifikation*, 1942, q. v.

**Copy seen:** DLC; MH-Z.

**21927. FREY, RICHARD, 1886- .** Finlands Agromyzider, bestämnda av Fr. Hendel. (Notulae entomologicae, 1937, v. 17, no. 3, p. 82-96) **Title tr.:** Agromyzidae of Finland determined by Fr. Hendel.

**Contains** a systematic list of 149 species of leaf miners (fam. Agromyzidae) found in Finland, from collection of the Helsingfors Museum, determined by a specialist, F. Hendel, with data on distribution and host plants; includes some species, native to Finnish and Russian Lapland.

**Copy seen:** DLC; MH-Z.

**21928. FREY, RICHARD, 1886- .** Finlands Lauxaniider. (Notulae entomologicae, 1933. v. 13, no. 1-2, p. 58-59) **Title tr.:** Lauxanidae of Finland.

**Contains** a list of 16 species of aculeate dipters occurring in Finland, including *Prorhaphochaeta styriaca* from Kuusamo and *Homoneura lamellata* and *Sapromyza zetterstedti* from Kola Peninsula; six species are new to the fauna of Fennoscandia.

**Copy seen:** DLC; MH-Z.

**21929. FREY, RICHARD, 1886- .** Förteckning över Finlands Clusiider (Dipt. Haplost.) (Notulae entomologicae, 1928. v. 8, no. 4, p. 108-109) **Title tr.:** A list of Clusiidae (Dipt. Haplost.) of Finland.

**Contains** a systematic list of eleven dipters of the fam. Clusiidae of Finland, including two species native to Finnish Lapland and one from Kola Peninsula.

**Copy seen:** DLC; MH-Z.

**21930. FREY, RICHARD, 1886- .** For faunan nya Diptera. (Notulae entomologicae, 1930. v. 10, no. 4, p. 113) **Title tr.:** Dipters new to the fauna of Finland.

**Contains** a brief record of five dipters from Finnish Lapland (Målla, Petsamo, Kilpisjärvi). **Copy seen:** DLC; MH-Z.

**21931. FREY, RICHARD, 1886- .** Neue Diptera brachycera aus Finnland und angrenzenden Ländern. (Notulae entomologicae, 1930. v. 10, no. 3, p. 82-94, illus.) **Title tr.:** New Diptera brachycera from Finland and adjoining countries.

**Contains** descriptions of 14 new brachycerous dipters from Finland, Sweden and Russia, including nine species native to Finnish and Russian Lapland; one species, *Melina (Diptaenia) alpina* n. sp. also occurring in the Lena River region of eastern Siberia.

**Copy seen:** DLC; MH-Z.

**21932. FREY, RICHARD, 1886-** . Neue Diptera brachycera aus Finnland und angrenzenden Ländern, II. (Notulae entomologicae, 1932, v. 12, no. 4, p. 81-85, illus.) **Title tr.:** New Diptera brachycera from Finland and adjoining countries, II.

*Contains* descriptions of two new syrphus flies, *Eristalis tundrae*, n. sp. found in Finnish Lapland and Kola Peninsula, and *Pipunculus forsiusi*, native to Finnish and Russian Lapland and Solovetskiye Islands.

**Copy seen:** DLC; MH-Z.

**21933. FREY, RICHARD, 1886-** . Neue paläarktische *Rhamphomyia* Arten nebst Bestimmungstabelle der *Rhamphomyia*-Subgenera [I]. (Notulae entomologicae, 1949, pub. 1950, v. 29, no. 3-4, p. 91-119) **Title tr.:** New palaearctic *Rhamphomyia* species with a table for the determination of *Rhamphomyia* subgenera [I].

*Contains* a key to the subgenera of the dipterous genus *Rhamphomyia* and descriptions of three new subgenera and 35 new species from various regions, including ten species native to Finnish Lapland, northern Siberia (Obdorsk, Verkhoyansk, Taymyr Peninsula) and Kamchatka. Pts. II-III of this work do not contain arctic material.

**Copy seen:** MH-Z.

**21934. FREY, RICHARD, 1886-** . [Nio för Finlands fauna nya flugarter]. (Notulae entomologicae 1944, v. 24, no. 1-2, p. 34-35) **Title tr.:** Nine fly species new to the fauna of Finland.

*Contains* an annotated list (without a formal title) of nine species of flies, previously unknown in Finland, including five species collected by the author in Finnish Lapland (Pallastunturi and Kilpisjärvi) in the summer of 1943.

**Copy seen:** DLC; MH-Z.

**21935. FREY, RICHARD, 1886-** . Die nordpaläarktischen *Tetanocera*-Arten (Diptera, Sciomyzidae). (Notulae entomologicae, 1924, v. 4, no. 2, p. 47-53, illus.) **Title tr.:** Northern palaearctic *Tetanocera* species (Diptera, Sciomyzidae).

*Contains* a critical revision of 14 northern species of the dipterous genus *Tetanocera* with a review of the species, including brief description of seven new species and data on their distribution; 12 species are native to northern regions of Scandinavia, Kola Peninsula, Ar-

khangel'sk province, northwestern Siberia and Kamchatka Peninsula.

**Copy seen:** DLC; MH-Z.

**21936. FREY, RICHARD, 1886-** . Nya svenska Empidider (Diptera). (Entomologisk tidskrift 1914, Årg. 35, häft. 1-2, p. 78-80) **Title tr.:** New Swedish Empididae (Diptera).

*Contains* critical notes on eleven species new to the dipterous fauna of Sweden, including four native to Karesuando parish, Lule Lappmark.

**Copy seen:** DA; MH-Z.

**21937. FREY, RICHARD, 1886-** . Nykomlingar för Finlands dipterfauna. (Notulae entomologicae, 1948, pub. 1949, v. 28, no. 3-4, p. 126-127) **Title tr.:** Newcomers to dipterous fauna of Finland.

*Contains* a list of 12 dipters new to the insect fauna of Finland, including *Borophaga o'kellyi* and *Megaselia giraudi* found in Kuusamo region.

**Copy seen:** DLC; MH-Z.

**21938. FREY, RICHARD, 1886-** . Om Finlands Ephydrid fauna. (Notulae entomologicae, 1930, v. 10, no. 4, p. 114-15) **Title tr.:** On Ephydridae of the fauna of Finland.

*Contains* a list of 27 brine flies (fam. Ephydridae) with data on their distribution in Finland, including three species from Finnish Lapland and one from Kola Peninsula.

**Copy seen:** DLC; MH-Z.

**21939. FREY, RICHARD, 1886-** . Studien über ostasiatische *Hilara*-species (Diptera, Empididae). (Notulae entomologicae, 1952, v. 32, no. 1-3, p. 119-28; no. 4, p. 129-43) **Title tr.:** Studies of eastern Asiatic species of *Hilara*.

*Contains* a key for the genera related to *Hilara*, descriptions of some new species from various eastern Asiatic regions (Japan and Burma) and a table for the determination of eastern Asiatic species of the subgenus *Hilara*, including *H. ragasides* and *H. vuorentausi* n. sp. native to Kamchatka Peninsula.

**Copy seen:** MH-Z.

**21940. FREY, RICHARD, 1886-** . Übersicht der Gattungen der Syrphiden-Unterfamilie Syrphinae (Syrphinae+Bacchinae). (Notulae entomologicae, 1945, pub. 1946, v. 25, no. 4, p. 152-72) **Title tr.:** A review of the genera of Syrphidae subfamily Syrphinae.

*Contains* a survey of the genera of the

subfamily Syrphinae of syrphus flies (Syrphidae), with synopses of the genera and species, data on their total distribution, and descriptions of some new genera and species. Includes *Xanthogramma ornatum* var. *nobilitatum* n. var. occurring in northern Ostrobothnia and in Lapland. **Copy seen:** DLC; MH-Z.

**2141. FREY, RICHARD, 1886-** . Übersicht der paläarktischen Arten der Gattung *Platypalpus* Macq. (= *Coryneta* Meig.) (Diptera, Empididae). (Notulae entomologicae, 1943. v. 23, no. 1-2, p. 1-19) **Title tr.:** Revision of palaearctic species of the genus *Platypalpus* Macq. (= *Coryneta* Meig.) (Diptera, Empididae).

**Contains** a critical revision of palaearctic species of dance flies (Empididae) of the genus *Platypalpus*, divided by the author into five groups, with a synopsis of these groups and a table for the determination of over one hundred palaearctic species (16 are new to science). A few species native to Swedish, Finnish and Russian Lapland, northern Siberia (lower Yenisey valley) and Kamchatka Peninsula are included, additional notes given on the geographic distribution of some species (p. 15-17) and an index of the species. **Copy seen:** DLC; MH-Z.

**2142. FREY, RICHARD, 1886-** . Vorarbeiten zu einer Monographie der Gattung *Rhamphomyia* Meig (Dipt. Empididae). (Notulae entomologicae, 1922. v. 2, no. 1, p. 1-10; no. 2, p. 33-45; no. 3, p. 65-77) **Title tr.:** Preliminary studies to a monograph of the genus *Rhamphomyia* Meig (Diptera Empididae).

**Contains** a synopsis of subgenera and all known species of dipterous genus *Rhamphomyia*, with brief descriptions and data on geographic distribution. This preliminary monographic study is based partly on collections from northern Russia, Siberia (Yenisey and Lena River regions), Kamchatka Peninsula, northern Scandinavia and arctic islands (Greenland, Novaya Zemlya, New Siberian Islands, etc.) Four new subgenera, 24 new species and four new varieties are described. **Copy seen:** DLC; MH-Z.

**2143. FREY, RICHARD, 1886-** . Zur Systematik der Diptera Haplostomata, II. Fam. Sepsidae. (Notulae entomologicae, 1925. v. 5, no. 3, p. 69-76, illus.) **Title tr.:** On systematics of Diptera Haplostomata, II. Fam. Sepsidae.

**Contains** a critical revision of dipterous family Sepsidae, with keys to the genera

and species and descriptions of, and critical notes on 15 species, including *Ortalischema albitarse*, occurring in Arkhangel'sk province, and *Themira arctica* found in the tundra of Lapland and Kola Peninsula. This paper is a continuation of the author's *Zur Systematik der paläarktischen Psiliden*, 1925, q. v.

**Copy seen:** DLC; MH-Z.

**2144. FREY, RICHARD, 1886-** . Zur Systematik der paläarktischen Psiliden (Dipt.). (Notulae entomologicae, 1925. v. 5, no. 2, p. 47-50) **Title tr.:** On systematics of palaearctic Psilidae (Dipt.).

**Contains** a critical revision of palaearctic species of dipterous family Psilidae with descriptions of three new genera and *Chamaepsila sibirica femoralis* n.sp. n.var. native to Bolshepetsk region of Kamchatka Peninsula. See also the item above. **Copy seen:** MH-Z.

**FREY, RICHARD, 1886-** , see also Kanervo, E. Syrphiden aus Finnisch Lappland. 1938. No. 23107.

**FREY, RICHARD KARL HJALMAR,** see Frey, Richard 1886-

**2145. FRIDEN, AXEL.** Botaniska notiser fran Tärna (Lappland). (Botaniska notiser, 1951, häfte 1, p. 84-87) **Title tr.:** Botanical notes from Tärna (Lappland).

**Contains** descriptive notes on various plants observed in Tärna, Lycksele Lappmark region, during entomological excursions in the summers 1945-48 and 1950, with some data on habitat.

**Copy seen:** MH-A.

**2146. FRIDMAN, S. L., and T. M. RUDENKO.** Sorevnovanie tral'mesterov Murmana. (Rybnoe khozâistvo, Sept. 1952. v. 28, no. 9, p. 47-49, table) **Title tr.:** Emulation among the trawler masters of the Murman.

**Contains** an account, with comparative data, of the efficiency of the skippers of eight Murman trawlers; data on the timing of various operations in handling the nets, speed-up of operations, avoidance of complications and damage, etc.; also on efficient ways of mending of nets,

their preservation, boat crews, etc.

**Copy seen:** DLC.

**2147. FRIDOLIN, VLADIMIR ÎUL'E-VICH.** Koukiss-woum-tehorr, le plateau central des Monts Khibines au point de vue biocenotique. (Entomologicheskoe

obozrenie, 1935. T. 26, no. 1-4, p. 165-182, illus.) *Title tr.:* Kukisvumchorr, the central plateau of the Khibiny Mts., from the viewpoint of its biocoenoses.

*Contains* a brief physical geographic sketch of Kukisvumchorr (about 67°37' N. 33°39' E.), the high mountainous part of Khibiny tundra region of Kola Peninsula; a general description of the vegetation and insect fauna and their interrelation in various sections and in various seasons. Summary in Russian.

*Copy seen:* MH-Z.

**FRIDOLIN, VLADIMIR IUL'EVICH**, *see also* Akademiia nauk SSSR. Khibinskaiia gornaiia stantsiia. Khibinskaiia gornaiia stantsiia. 1934. No. 20100.

**21948. FRIDRIKSSON, ARNI.** Herring marking in European waters. (*Nature*, Apr. 15, 1950. v. 165, p. 593-94, 2 diags.)

Report (in brief) on tagging carried out during 1948-49, in northern Icelandic and southern Norwegian waters, with mention of returns and possible conclusions to be drawn from continued work.

*Copy seen:* DLC.

**FRIEDLANDER, MAE**, *see* Bierman, W., & M. Friedlander. Penetrative effect cold. 1940. No. 20678.

**21949. FRIEDMAN, NATHAN BARUCH, 1911-**, and **K. LANGE.** The pathology of experimental frostbite. (*Federation proceedings*, Mar. 1946. v. 5, p. 220-221)

Abstract of observations on "pathologic changes in the tissues of rabbits subjected to severe cold." These observations "support the view that the fundamental lesions in frostbite involve the vessels."

*Copy seen:* DLC.

**21950. FRIEDMAN, NATHAN BARUCH, 1911-**, and **R. A. KRITZLER.** The pathology of high-altitude frostbite. (*American journal of pathology*, Mar. 1947. v. 23, p. 173-87, incl. 16 fig. on 4 plates)

*Contains* study of morbid anatomy of frostbite incurred by airmen exposed to severe cold at high altitudes: clinical data on 20 patients and microscopic-pathological findings are presented. Most prominent pathological changes were agglutinative thrombosis and vascular lesions; gangrene probably resulted from ischemia, not from freezing. Comparison

with trench foot suggests that tissue reactions to cold exhibit a basic similarity. Bibliography (19 items).

*Copy seen:* DLC.

**21951. FRIEDMAN, NATHAN BARUCH, 1911-** . The reactions of tissue to cold; the pathology of frostbite, high altitude frostbite, trench foot and immersion foot. (*American journal of clinical pathology*, Oct. 1946. v. 16, p. 634-39, 9 illus.)

*Contains* a report on pathologic anatomy and pathogenesis of cold injuries, based on study of more than 100 cases of local injury usually to the extremities, in World War II. No essential dissimilarities were found between lesions of trench foot and of high altitude frostbite. Agglutinative thrombosis is considered the main cause of gangrene in severe lesions but some of the changes may be the direct effect of cold. Bibliography (19 items).

*Copy seen:* DLC.

**21952. FRIEDRICH, HERMANN.** Polychaeten-Studien IV. Zur Polychaeten-fauna der Barents-See. (*Kieler Meeresforschungen*, 1939. Bd. 3, p. 122-32; illus., sketch chart) *Title tr.:* Polychaete studies 4. The polychaete fauna of Barents Sea.

Results of the *Poseidon* cruise in June-July 1913: list of 50 species of polychaete annelid worms, with systematic notes on a few; tabular presentation of their geographic distribution in Novaya Zemlya waters, Kara Sea, Spitsbergen waters, and on the west coast of Norway; remarks on their ecologic distribution on mud, sandy mud, muddy sand, and sand, with brief discussion. Bibliography (11 items).

*Copy seen:* DGS.

**21953. FRIEDRICH, HERMANN.** Versuch einer Darstellung der relativen Besiedlungsdichte in den Oberflächenschichten des Atlantischen Ozeans. (*Kieler Meeresforschungen*, 1950. Bd. 7, Heft 2, p. 108-21, illus. with 3 maps, diagr.) *Title tr.:* An attempt to illustrate the relative population densities in the surface layers of the Atlantic Ocean.

A paper largely devoted to discussion of problems and methods of accurately presenting average plankton populations; includes chart and diagram showing phytoplankton and copepod distribution, variation factor, and annual variation of development for southern Davis Strait, Denmark Strait and southwestern Green-

land Sea, in relation to the entire Atlantic Ocean. Bibliography (48 items).

**Copy seen:** DGS.

**21954. FRIELE, HERMAN, 1838-1921.** and G. H. A. HANSEN. Bidrag til kundskaben om de norske Nudibranchier. (Norske videnskaps-akademi, Oslo. Forhandlinger, 1875, pub. 1876, p. 69-80, plate 2) **Title tr.:** Contributions to the knowledge of Norwegian Nudibranchiata.

Contains a systematic list of 34 marine snails inhabiting Norwegian waters, with diagnoses of four new species, critical notes and data on distribution; includes at least seven species native to northern regions.

**Copy seen:** DLC; MH-Z.

**FRIES, KLAS ROBERT ELIAS, 1876-**, see Wittrock, V. B. Anteckningar om nordiska namn. 1918. No. 27462.

**FRIES, THEODOR MAGNUS, 1832-1913,** see Blytt, A. G. Bidrag om vegetationen paa Nowaja Semlja. 1873. No. 20736.

**21955. FRIES, THORE CHRISTIAN ELIAS, 1886-1930.** Bidrag till Tromsø amts gasteromycetoflora. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig række, 1917-18, pub. 1920. nr. 11, p. 1-10) **Title tr.:** A contribution to the Gasteromycetes flora of the Tromsø province.

Contains a systematic list of 12 basidiomycetous fungi of the group Gasteromycetes collected by the author in Tromsø province, northern Norway, with a description of *Calvatia saecata* var. *alpina*, n. var., critical notes, lists of Norwegian specimens and data on distribution.

**Copy seen:** MH-Z.

**21956. FRIESE, HEINRICH FRIEDRICH AUGUST, 1860-**. Neue oder wenig bekannte Hummeln des Russischen Reiches (Hymenoptera). (Akademii nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1904, pub. 1905. t. 9, no. 4, p. 507-523) **Title tr.:** New or little known humble-bees of the Russian Empire.

Contains in this paper (with a misleading title) descriptions of ten new species of bumblebees (*Bombus*) from China, two from Asiatic Russia and four from Novaya Zemlya; with a systematic synopsis of *Bombus* species in the palaearctic region, p. 516-23.

**Copy seen:** DLC; MH-Z.

**21957. FRISENDAHL, ARVID, 1886-**. *Myricaria germanica* (L.) Desv. (Acta florae Sueciae, 1921. Bd. 1, p. 265-304, plate 17, text map)

Contains a study of geographic distribution and rapid spread of *Myricaria germanica* from southern Scandinavia to the arctic region of Sweden and Norway; with data on the morphology and biology of this shrub; bibliography (36 items).

**Copy seen:** MH-A.

**21958. FRISENDAHL, ARVID, 1886-**. Om *Ranunculus cymbalaria* Pursh. och fynd av densamma i Sverige. (Acta florae Sueciae, 1921. Bd. 1, p. 305-328, illus., plate 18, text map) **Title tr.:** On *Ranunculus cymbalaria* Pursh, and its distribution in Sweden.

Contains a study of the systematics, biology, ecology and geographic distribution of *Ranunculus cymbalaria* found in southern Sweden, with a list of localities in West Greenland, southeastern Alaska and Labrador.

**Copy seen:** MH-A.

**21959. FRISENDAHL, AXEL, 1890-1919.** Coleopterologiska notiser. (Entomologisk tidskrift, 1919. Årg. 40, häft. 1, p. 49-52) **Title tr.:** Notes on Coleoptera.

Contains critical notes on 17 species of beetles including at least two species occurring in northern regions of Scandinavia (Finland and Norway).

**Copy seen:** MH-Z.

**21960. FRISENDAHL, AXEL, 1890-1919.** Nya svenska Coleoptera. (Entomologisk tidskrift, 1917. Årg. 38, häft. 3-4, p. 298-301) **Title tr.:** New Swedish Coleoptera.

Contains critical notes on 14 species of beetles, collected in Jämtland and new to the fauna of Sweden, including *Tachinus atripes*, *Mycetoporus boreellus*, *Epuraea lapponica* and *Lamphloeus abietis* known previously from northern regions of Finland (Finnish Lapland).

**Copy seen:** DLC; MH-Z.

**21961. FRISON, THEODORE HENRY, 1895-**. Hymenopterous insects of the family Bremidae from the Pribilof Islands, Alaska. (In: Hanna, G. D., and others. Insects of the Pribilof Islands, Alaska, 1921. p. 185-87)

Contains a note on the specimens (a queen and a worker) of the bumblebee, *Bremus (Bombus) kincaidi* (Cockerell),

with earlier accounts, and comparison with similar forms included.

*Copy seen:* DSI-M.

**21962. FRISTRUP, BØRGE.** Danish expedition to Peary Land, 1947-1950. (Geographical review, Jan. 1952. v. 42, p. 87-97 incl. illus., tables, map)

"The objective of the Danish Peary Land Expedition of 1947-1950 was the scientific exploration of the area. A reconnaissance party was sent out in the summer of 1947. Three Catalina flying boats transported 38 tons of goods, the winter party and 20 huskies in the following summer. The winter party was relieved in the summer of 1949 and seven men wintered in 1949-50. The expedition was evacuated in August 1950. Meteorological observations were made every three hrs. in addition to the self-recording measurements. The temperatures ranged between  $-31.3^{\circ}$  C and  $6.0^{\circ}$  C in 1948-1949 and  $-32.0^{\circ}$  C and  $6.4^{\circ}$  C in 1949-50. Pilot balloon observations were influenced by local conditions. Gales and blizzards were frequent in 1948-49. Wind velocities above 30 m./sec. were frequently measured, and some gusts reached 40 m./sec. There were few heavy storms in 1949-50. Glaciological investigations were conducted on Chr. Erichsen Brae, an icecap type glacier extending from 1100 m. to 1300 m. above the sea level. The northern and eastern parts of the glacier were surveyed with a Wild T II theodolite. An annual accumulation of 114 mm. and an ablation of 162 mm. of water were recorded on the highest part of the glacier with a row of stakes. Evaporation was measured by determining the loss of weight of pans filled with ice and snow placed level with the snow surface. The front of the glacier retreated nearly 70 m. from Aug. 1947 to Aug. 1949. Several other shrinking glaciers were investigated."—SIPRE.

*Copy seen:* DLC.

**21963. FRISTRUP, BØRGE.** Grönländische Wirtschaft; einige Grundzüge der Wirtschaftsgeographie einer arktischen Kolonie. (Erde; Zeitschrift der Gesellschaft für Erdkunde zu Berlin (Jahres-Heft), 1952. p. 33-52, map) *Title tr.:* The economy of Greenland; some characteristics of the economic geography of an arctic colony.

*Contains* a brief account of the population and its distribution, and of fishing, livestock raising and mining in West Greenland, concluding with some dis-

cussion of Danish administrative policies in relation to the economy of the Greenlanders.

*Copy seen:* DGS.

**21964. FRISTRUP, BØRGE.** Die Klimaänderungen in der Arktis und ihre Bedeutung besonders für Grönland. (Erdkunde, Okt. 1952. Bd. 6, p. 201-212, illus. incl. 7 sketch maps) *Title tr.:* Climatic variations in the Arctic and their significance, with special reference to Greenland.

*Contains* some discussion of the effects produced by amelioration of arctic climate upon sea ice, glacier regime and upon fisheries, sealing and whaling in Greenland; the introduction of livestock raising to compensate in the economy for the decreasing sealing industry is noted. Bibliography (61 items).

*Copy seen:* DGS.

**21965. FRISTRUP, BØRGE.** Peary Land. (Kulturgeografi, Aug. 1950. Årgang 2, nr. 4., p. 153-56)

*Contains* a short description (in Danish) of Peary Land, investigated by the Danish Peary Land Expedition in 1947-50, with the author as glaciologist. Notes are given on geology, climate, glaciers, vegetation and animal life. Seven photographs show Eskimo tent rings, aircraft on Brønlund Fjord, winter quarters, arctic desert landscape in southern Peary Land, muskoxen and glacier in Heilprin Land.

*Copy seen:* CaMAI; DLC.

**21966. FRISTRUP, BØRGE.** Peary Land. En foreløbig redegørelse for geografisk arbejde paa Dansk Peary Land expedition. (Geografisk tidsskrift, 1948-1949, pub. 1950. Bd. 49, p. 41-66, illus. fold. map) *Title tr.:* Peary Land. A preliminary report on the geographical work of the Danish Peary Land Expedition.

*Contains* a résumé of the geographic limits and naming of Peary Land,  $81^{\circ}30'-83^{\circ}30'$  N.  $20^{\circ}-45^{\circ}$  W.; an account of the preliminary expedition in 1947 and subsequent work during 1948-1949, the seaplane transportation; brief report on the topography, meteorology, and glaciology.

*Copy seen:* DGS.

**21967. FRISTRUP, BØRGE.** Physical geography of Peary Land I. Meteorological observations for Jørgen Brønlunds Fjord. København, C. A. Reitzel, 1952. 143 p. incl. tables. (Meddelelser om Grønland. Bd. 127, no. 4) Results of the Dansk Pearyland-Ekspedition, 1947-1950; leader: Eigil Knuth.

Contains tabulations of synoptic observations (taken at 00, 03, 06, 09, 12, 15, 18, and 21 hours GMT) of pressure, wind direction and velocity, air temperature, relative humidity, visibility, weather, past weather, clouds, barometric tendency, and precipitation, from Aug. 1, 1948-Aug. 19, 1950, at 82°10.4' N. 30°29.8' W. on the south coast of Jørgen Brønlunds Fjord, North Greenland.

**Copy seen:** DGS.

**FRISTRUP, BØRGE**, *see also* Jensen, A. S., & B. Fristrup. *Arktiske klimaforandringer*. 1950. No. 22956.

**FRISTRUP, BØRGE**, *see also* Winther, P. C., & others. Prelim. account Danish Pearyland Exped. 1950. No. 27458.

**21968. FRITZ, MILO H.** Corneal opacities among Alaska natives. (Alaska's health, Dec. 1947. v. 5, no. 12, p. [3-7])

Based on a six-week ophthalmologic survey of 400-odd natives (90 percent Eskimo, 10 percent Indians) along the arctic coast and in the Yukon and Kuskokwim River valleys of western Alaska, June-Aug. 1947. Of the number seen, 127 had corneal opacities. Author discusses medical causes, and contributing factors from poor living conditions; lists recommendations beyond the treatment then being used to combat the disease.

**Copy seen:** DLC.

**21969. FRITZ, MILO H., and PHILLIPS THYGESON.** Phlyctenular keratoconjunctivitis among Alaskan Indians and Eskimos. (U. S. Public Health Service. Public health reports, 1951. v. 66, no. 29, p. 934-39, tables, diagr.)

Contains data on earlier work on the disease in Alaska; clinical picture of phlyctenulosis and statistics, prevalence, etc. The author, like many others, assumes that the tuberculosis bacillus is the etiological factor in the disease and reports dramatic results with cortisone, topically applied. Bibliography (5 items).

**Copy seen:** DLC.

**21970. FRÖDERSTRÖM, HARALD.** The genus *Sedum* L.; a systematic essay, parts I-IV. Göteborg, Elanders boktr. 1930-36. 75 p., illus., 28 plates; 111 p. illus., 65 plates; 126 p., illus., 67 plates; 262 p., illus., 115 plates. (Göteborg, Sweden. Botaniska trädgård. Meddelanden t. 5, bihang; (II) 1931, t. 6, bihang; (III) 1932, t. 7, bihang; (IV)

1935, pub. 1936, t. 10, bihang). The four parts were also issued together as a single volume.

Contains a discussion of the genus *Sedum* (stonecrop or orpine), its systematic position, and a critical revision of all known species, with Latin descriptions of many new species, synonymy, critical notes; a list of twenty-nine important collectors of *Sedum* in China and Mexico, a key to the species (IV: p. 199-215); a bibliography (over 600 items, IV: p. 216-37), and index of the species (IV: p. 238-60); includes some species native to arctic regions of Scandinavia, Siberia, Alaska and Greenland.

**Copy seen:** DA; MH-A.

**21971. FROHNE, W. C., and R. B. WILLIAMS.** Notes on snipe flies of the genus *Symphoromyia* in Alaska. (Mosquito news, Mar. 1951. v. 11, no. 1, p. 32-33)

Contains brief information on the abundance and distribution of two snipe flies, the most common species of the genus *S. atripes* Bigot and *S. kincaidi* Aldrich whose females are bad biters of man. Observations (over the previous four years) on abundance and biting habits refer to Juneau. Differences between the two species are given. Bibliography (2 items).

**Copy seen:** DSG.

**21972. FROST, ROBERT E. and O. W. MINTZER.** Influence of topographic position in airphoto identification of permafrost. (National Research Council. Bulletin, Nov. 1950. No. 28, p. 100-121, incl. illus., diagrs.)

"The development of the use of aerial photographs in the determination of the presence or absence of detrimental permafrost is discussed. . . . Permafrost is defined and the factors affecting the existence or non-existence of permafrost are given in relation to the climatic influence and the topographic position. The topographic types discussed include uplands, transition zones and valley fill, terraces, and flood plains. The essential airphoto-identification elements are delineated. It is concluded that the influence of topographic position is the most important factor in identification of permafrost in subarctic regions."—Author's abstract. Bibliography (31 items).

**Copy seen:** DLC.

**21973. FROST, ROBERT E.** Interpretation of permafrost features from air-

photos. (National Research Council. Highway Research Board. Frost action in soils, a symposium. *Ils*: Special report, 1952. no. 2 (N. R. C. pub. 213) p. 223-46, illus.)

Contains a report of field observations made by Purdue University parties in arctic and subarctic regions of Alaska, on the use of aerial photography for predicting the presence of permafrost and certain of its features. Includes descriptions of these features and indicates that airphotos are useful for prediction of soil textures and permafrost conditions. "The presence of permafrost is indicated by landform, drainage pattern, erosion features, gully characteristics, vegetation, and color tones. Detrital types of permafrost can be identified by recognizing features such as soil polygons and geometric patterns formed by frost action. Depressed-center polygons and raised-center polygons vary in size from 15 ft. to about 200 ft. in diameter and may have 4 to 6 sides with 5 being most common. Pingos or frost mounds, elongated lakes in lower coastal plain areas, thermokarst lakes formed by thawing of large ice masses, earth runs on sides of hills, and mud boils, hummocks, small frost mounds, are characteristic features of permafrost areas."—SIPRE. Bibliography (70 items).

**Copy seen:** DGS.

**21974. FROST, ROBERT E.** Permafrost. (Purdue University. Engineering bulletin, May 1950. v. 34, no. 3, p. 101-111; Engineering Extension Dept. Extension series no. 71) In Proceedings of the 36th annual Road School, Purdue University, Apr. 10-13, 1950, this paper has title (in table of contents): *Alaska the unpredictable*.

Contains general definitions and descriptions of permafrost features, occurrence and problems, and brief review of research which the U. S. Army Corps of Engineers and the Engineering Experiment Station of Purdue University have been carrying out since 1946 in Alaska.

**Copy seen:** DGS.

**21975. FROST, RUBEN L.** Cold winter in Alaska. (American Meteorological Society. Bulletin, May 1934. v. 15, no. 5, p. 137-41)

"Characteristics of the meteorological conditions at Fairbanks, Alaska during an unusually cold winter, 1933-1934. Gives values of visibility range at the earth's surface and slant visibility from

pilot balloon observations."—*Meteorological abstracts and bibliography*, Sept. 1952. v. 3, no. 9, p. 954.

**Copy seen:** DLC.

**21976. FROST, RUBEN L.** Rime caps and snow cocks. (U. S. Weather Bureau. Monthly weather review, Mar. 1934. v. 62, no. 3, p. 97, 6 fig.)

"Pictures from Fairbanks, Alaska of rime deposit on the top of a ventilator pipe and chimney top, and snow cocks formed by shifting winds around small isolated trees."—*Meteorological abstracts and bibliography*, Oct. 1952. v. 3, no. 10, p. 1082.

**Copy seen:** DLC.

**FROST EFFECTS LABORATORY**, *see* U. S. Army Engineers. Frost Effects Lab. Investigation of . . . frozen soils. 1952. No. 26890.

**21977. FROSTERUS, BENJAMIN, 1866-** . Versuch einer Einteilung der Böden des Finnländischen Moränengebietes. Helsingfors, 1913-15. 124 p., 6 plates, illus., diags., tables. (Fennia, 35:8) **Title tr.:** An attempt at classification of the soils from the Finnish moraine area.

**Contents:** Introduction (on soil and soil deposits; general climatic conditions of Finland since the ice age); general characteristics of soils in humid areas; true podsol soils; podsol-like soils; true ground-water soils; general characteristics created by podsolization of the "solum horizon"; summary of investigation results. The study includes the areas north of the Arctic Circle. Bibliographic footnotes.

**Copy seen:** DLC.

**21978. FRÜH, J.** Föhn in Fort Good Hope 66°20' N am Mackenzie River (Canada). (Meteorologische Zeitschrift, 1901. Bd. 18, no. 1, p. 36) **Title tr.:** Föhn at Fort Good Hope 66°20' N. on the Mackenzie River (Canada).

"An interesting phenomenon of a very strong, warm wind from N or NNW raising the temperature 40°, causing damage to buildings and producing debility of living organisms, is described. It was evidently a föhn-type descending wind."—*Meteorological abstracts and bibliography*, July 1951, v. 2, no. 7, p. 595.

**Copy seen:** DLC.

**FUCHS, DAVID RAPHAEL**, *see* Fokos, David Raphael.

**21979. FUCHS, V. E.** Sledging rations of the Falkland Islands Dependencies

Survey, 1948-50. (Polar record, July 1952. v. 6, no. 44, p. 508-511, tables)

Contains an account of the rations, evolved from those used by the British Graham Land Expedition (1934-37), and used successfully in long distance dog-sledge trips; includes chemical analysis of the rations, modifications, day's menu; subjective response to the rations, etc.

**Copy seen:** CaMAI; DLC.

**21980. FUHRMAN, FREDERICK A.** The effect of body temperature on drug action. (Physiological reviews, Apr. 1946. v. 26, p. 247-74)

Contains a review article dealing with vertebrates and covering the more recent literature; in some cases results obtained at varied environmental temperatures and on isolated preparations are included; both homeotherms and poikilotherms are dealt with and compared; effects of drugs during hibernation are also included. Bibliography (about 225 items).

**Copy seen:** DLC.

**21981. FUHRMAN, FREDERICK A.** The effect of rutin in experimental frostbite. (Federation proceedings, Mar. 1948. v. 7, p. 38)

Contains an abstract on experiments with rutin, given to rabbits by stomach tube prior to, or immediately following severe, local frostbite; the extent of tissue loss due to cold injury was much less in the treated animals than in controls; rutin appears to act by altering the pattern of local blood flow.

**Copy seen:** DLC.

**21982. FUHRMAN, FREDERICK A., and J. M. CRISMON.** The influence of acute hypothermia on the rate of oxygen consumption and glycogen content of the liver and on blood glucose. (American journal of physiology, June 1947. v. 149, p. 552-60)

Contains an account of experiments with adult rats, cooled until their respiration ceased. Oxygen consumption of liver was not significantly decreased as the result of cooling; liver glycogen was rapidly utilized during hypothermia; in animals provided with ample stores of carbohydrate before cooling, blood glucose increased during early hypothermia and remained elevated; in fasted animals and in slowly cooled, fed, animals, blood glucose was maintained or fell during the course of cooling. Animals fasted 24 hrs. could be cooled to a mean rectal temperature of 9.6° C. while fed animals could

be cooled only to 14.3° C. before respiration ceased. Bibliography (27 items).

**Copy seen:** DLC.

**21983. FUHRMAN, FREDERICK A., and J. M. CRISMON.** Studies on gangrene following cold injury, I. A method for producing gangrene by means of controlled injury by cold. (Journal of clinical investigation, Mar. 1947. v. 26, p. 229-35)

Contains an account of methods applied earlier, and the authors' method; deep tissue temperature in rabbits' feet during immersion in freezing liquid; effects of precooling, and, a general description of the effects of freezing of rabbits' ears and hind feet. Bibliography (17 items).

**Copy seen:** DLC.

**21984. FUHRMAN, FREDERICK A., and J. M. CRISMON.** Studies on gangrene following cold injury, II. General course of events in rabbit feet and ears following untreated cold injury. (Journal of clinical investigation, Mar. 1947. v. 26, p. 236-44, 4 fig.)

Contains an account of the general course of events, including gross changes, skin color and temperature changes, vascular spasm, etc., following the production of frostbite in the ears and feet of rabbits. Bibliography (6 items).

**Copy seen:** DLC.

**21985. FUHRMAN, FREDERICK A., and J. M. CRISMON.** Studies on gangrene following cold injury, III. Edema following cold injury: its magnitude and the composition and sources of edema fluid. (Journal of clinical investigation, Mar. 1947. v. 26, p. 245-58, 6 fig.)

Contains data on the commencement of swelling, its maximum and decrease; subcutaneous tissue pressure; composition of edema fluid; changes in blood composition during swelling. Bibliography (24 items).

**Copy seen:** DLC.

**21986. FUHRMAN, FREDERICK A., and J. M. CRISMON.** Studies on gangrene following cold injury, VII. Treatment of cold injury by means of immediate rapid warming. (Journal of clinical investigation, May 1947. v. 26, p. 476-85, 4 fig.)

Contains a study on the effectiveness of rapid warming in preventing gangrene in frostbitten ears and legs of rabbits. "In the majority of cases this treatment resulted in complete preservation of the frostbitten ear" and feet. The beneficial

effect of rapid warming is attributed to an "alteration in the pattern of local blood flow in the frostbitten part." It is suggested that rapid warming should be supplemented by measures designed to control edema. Bibliography (16 items).

**Copy seen:** DLC.

**21987. FUHRMAN, FREDERICK A., and J. M. CRISMON.** Studies on gangrene following cold injury, IX. The effect of rutin and other chemical agents on the course of experimental frostbite in rabbits. (Journal of clinical investigation, May 1948. v. 27, pt. 1, p. 364-71)

*Contains a study on severe frostbite on ears and feet of rabbits. Rutin, 50-100 mgm. per kg. per day given by stomach tube, limited considerably the extent of gangrene in the feet, but not in the ears; it delayed the development of stasis and apparently altered the pattern of blood flow through the capillary bed; procaine block delayed, but did not prevent gangrene. The following drugs and means were ineffective in preventing gangrene following frostbite: vasodilators, vasoconstrictors, anticoagulants, steroid hormones, whole blood transfusion, administration of plasma albumin and sodium chloride solutions. Bibliography (36 items).*

**Copy seen:** DLC.

**FUHRMAN, FREDERICK A., see also Crismon, J. M., & F. A. Fuhrman.** Distribution of sodium & water in muscle following severe cold injury. 1946. No. 21310.

**FUHRMAN, FREDERICK A., see also Crismon, J. M., & F. A. Fuhrman.** Studies on gangrene cold injury IV, distribution of fluorescein in body fluids. 1947. No. 21311.

**FUHRMAN, FREDERICK A., see also Crismon, J. M., & F. A. Fuhrman.** Studies gangrene cold injury V, fluorescein tests. 1947. No. 21312.

**FUHRMAN, FREDERICK A., see also Crismon, J. M., & F. A. Fuhrman.** Studies gangrene cold injury VI, blood flow. 1947. No. 21313.

**FUHRMAN, FREDERICK A., see also Crismon, J. M., & F. A. Fuhrman.** Studies gangrene cold injury VIII, use of casts and pressure dressings. 1947. No. 21314.

**21988. FUHRMAN, RALPH E.** Methods and equipment for pit latrine con-

struction in frozen ground. A report to the Subcommittee on Waste Disposal. (National Research Council. Committee on Sanitary Engineering and Environment. Bulletin, 1949, p. 220-22)

*Contains instructions on application, construction, operation and cleaning of pit latrines; summary and recommendation. "Three methods of pit construction in permafrost regions are reviewed: thawing the ground with aeroil burners to make hand digging possible; burning coke on the ground and digging the thawed ground by hand; and digging with pneumatically operated clay spades equipped with blades 6 to 7 in. wide. The first 2 methods were slow, cumbersome, and unreliable. Pneumatic equipment permitted digging with comparative ease without necessitating the removal of moisture. A sufficiently large pit was dug in 4 hrs. The cleaning of pits from waste was accomplished by thawing with steam and removing the contents with diaphragm pumps. Agitation of the deposits in the pit to limit stalagmite growth is recommended."—SIPRE.*

**Copy seen:** DSG.

**FUHRMAN, RALPH E., see also Whittaker, H. A., & others.** Disposal of garbage permafrost areas. 1949. No. 27355.

**21989. FUHRMANN, ERNST, 1886- .** Tlinkit u. Haida, Indianerstämme der Westküste von Nordamerika. Kultische Kunst und Mythen des Kulturkreises. Hagen i W. und Darmstadt, Folkwang-verlag g.m.b.h., 1922. 41 p., 1 l., 61 plates on 31 leaves. (Schriften-Reihe Kulturen der Erde; Material zur Kultur- und Kunstgeschichte aller Völker. [Bilderwerke] Bd. XXII) **Title tr.:** Tlingit and Haida, Indian tribes of the west coast of North America. Cultic art and myths of the culture area.

*Contains (p. 5-41) a description of the Southeast Alaskan and British Columbia coastal area inhabited by the Tlingit and Haida Indians; their tribal organization, cults, myths, handicrafts especially wood carving; also accounts of more southerly tribes (Papago, Pima, Navaho, etc.) and a chapter on tobacco; descriptions in detail of the art objects (wood and slate carvings) of the Tlingits and Haidas: masks, pipe bowls, totems, etc. These are illustrated from photographs on plates 1-61, with note of Museum where the objects are located.*

**Copy seen:** DLC.

**FULLER RESEARCH FOUNDATION,**  
*see Alcan ingot.* For arctic living. 1952.  
No. 20125.

**21990. FULLERTON, AUBREY.** Drifting harvests of far North rivers. (Forest and outdoors, 1945. v. 41, p. 97-98, illus.)

Contains sections on the origin of driftwood of the Mackenzie River system, its metamorphosis en route, and its use in the far North; forests of the North and their exploitation, especially in the Mackenzie River country (sawmills, markets).

**Copy seen:** DA.

**21991. GABEL-JØRGENSEN, CARL CHRISTIAN AAGE, 1895- .** Kortlægning. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 1, p. 41-62, illus., incl. 2 maps) **Title tr.:** Cartography.

Distinguishes three periods of historical mapping of Greenland, 982-1576, 1576-1721 and 1721-1927; and describes (in some detail) the modern "rational" period beginning 1927, its organization under the Greenland Commission of Geological and Geographic Surveys, its methods (triangulations, base lines, astronomical geographic location, and air photography) and results achieved in East Greenland. **Copy seen:** DSI-M.

**21992. GABRIELSON, IRA NOEL, 1889- .** Alaskan waterfowl and their management. (In: Alaskan Science Conference . . . 1950. Selected papers 1952. p. 292-305)

Contains a brief history of waterfowl exploration in the marshes of the Yukon delta and other key areas. Species of major importance are noted, their breeding grounds (in Alaska), habitats, little explored areas, migrations, resting and feeding areas. Banding projects and their results are summarized, with remarks on decrease of waterfowl populations. Recommendations are formulated in regard to hunting practice and natives' needs, protection of breeding grounds and development of research. Bibliography (5 items).

**Copy seen:** DAI; DLC.

**21993. GABRIELSON, IRA NOEL, 1889- . and B. S. WRIGHT.** Notes on the birds of the Fort Chimo, Ungava district. (Canadian field-naturalist, July-Aug. 1951. v. 65, p. 127-40, illus.)

Contains annotated list of 87 species and subspecies of birds, with extensive field notes from a collecting trip in Aug. 1948.

**Copy seen:** DGS.

**GABRIELSON, MILTON A.,** *see* Roth, G. M., & M. A. Gabrielson. Variation acids gastric content at various temp. 1940. No. 25670.

**21994. GABUS, JEAN.** La construction des iglous chez les Padleirmiut. (Société neuchateloise de géographie. Bulletin, 1939-40, pub. 1940. t. 47, p. 43-51, illus., 4 plates) **Title tr.:** The building of snowhouses by the Padleirmiut.

Note on character of snow needed for building snowhouses, and discussion in detail of house plans, local variations and difference in transient and permanent houses of the Padleirmiut, Eskimos of the Maguse River region west of Hudson Bay, among whom the author lived in 1938-39.

**Copy seen:** DGS.

**21995. GABUS, JEAN.** Les mouvements migratoires chez les Esquimaux-caribous. (Anthropos, Ephemeris, 1940-41. Bd. 35-36, p. 221-38, 3 maps) **Title tr.:** The migratory movements of the Caribou Eskimos.

Contains account of these migrations in the Barren Grounds of Canada where the author lived for ethnographic observations 1938-39; and his conclusion that they are caused by economic, social, magical or religious, and psychological reasons.

**Copy seen:** DLC; InU.

**21996. GABUS, JEAN.** Préparation des peaux chez les Esquimaux "caribous". (Anthropos, Ephemeris, 1940-41, v. 35-36, p. 355-56) **Title tr.:** Preparation of skins among the Caribou Eskimos.

Contains account of treatment of different kinds of skins for different purposes.

**Copy seen:** DLC; InU.

**21997. GAD, FINN, 1911- .** Grønland. Udg. af V. U.s Landsorganisation (pjecceudvalget). København, ASAs forlag, 1949. 31 p., illus., map, diags. (V. U.s aktuelle smaaskrifter 14) **Title tr.:** Greenland.

Pamphlet (published by the Venstres Ungdoms Landsorganisation = National Youth Organization), describing briefly the geography, natural history, peoples, history, economy, social conditions and strategic position of Greenland.

**Copy seen:** DLC.

**21998. GAD, FINN, 1911- .** Den nyere kolonisations historie til 1939. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 1, p. 275-304, illus., incl. map) **Title tr.:** History of modern colonization to 1939.

Dates the modern period in colonization of Greenland from that of Hans Egede at Godthaab in 1721, to the most recent colony at Scoresbysund, 1925. Sketches briefly the personalities, and developments in trade, church, education, administration, and the growth of population. Bibliography (11 items).

**Copy seen:** DSI-M.

**21999. GADD, PEHR.** En ny Lernaeopoda (parasit-coepod) från Lena inferior. Helsingfors, 1907. 5 p. plate. (Finska vetenskaps-societeten. Oversigt af förhandlingar, 1907-1908. Bd. 50, no. 4) **Title tr.:** A new Lernaeopod (parasitic coepod) from the lower Lena.

Contains a detailed description of a new crustacean *Lernaeopoda tuberculata* n.sp., parasitic on the fish *Coregonus (Stenodus) nelma*. The determination was made on material collected in Sept. 1901 by B. R. Poppius during the Cajander-Poppius natural history trip in the Lena valley. **Copy seen:** DLC.

**22000. GAEL', A. G.** Promerzanie i ottaivanie pochvo-gruntov v Severnom Priural'e v zimu 1946/47 gg. (Pochvovedenie, 1948. v. 43, no. 7, p. 429-44, incl. tables, graphs, diagrs.) **Title tr.:** Freezing and thawing of soils in the Northern Urals during the 1946-47 winter.

"Relatively light soils usually freeze in Nov., and remain frozen for about 135 days. The thawing period lasts 10-40 days depending on the soil composition, frost penetration, and the level of ground waters. Frost penetrates sandy soils with high ground-water level to a maximum of 2.7 m. The density of frozen sandy soils is relatively low but traces of organic admixtures increase cohesion. High ground water levels, frozen capillary waters, and a vegetative cover over shaded soils prolong the thawing period."—SIPRE. **Copy seen:** DLC.

**22001. GAERTNER, HANS RUDOLF von.** Bemerkungen über den Tillit von Bigganjarga am Varangerfjord. (Geologische Rundschau, 1943. Bd. 34, p. 226-31, illus.) **Title tr.:** Remarks on the tillite from Bigganjarga on Varanger Fiord.

Describes a remarkable occurrence of consolidated ground moraine overlying striated sandstone in the Eocambrian of Bigganjarga, isolated from the rest of the Eocambrian tillite, and taken to be a part of a frozen ground moraine block which

attained its present position by action of an iceberg. Bibliography (14 items).

**Copy seen:** DLC.

**22002. GAGARIN, EUGEN, 1907—** Die Wälder der Sowjetunion. 2. Aufl. Königsberg (Pr), Ost-Europa-Verlag, 1943. 46 p. fold. map (Königsberg. Universität. Institut für Ostforschung. Schriften. Geisteswissenschaftliche Reihe, Bd 1.) **Title tr.:** The forests of the Soviet Union. 2d ed.

Contains chapters on the importance of timber in present-day economy and timber reserves of the world; the forest zones of the U.S.S.R.; economic significance and characteristics of its main kinds of timber; its timber reserves. Numerous references and data on the northern areas are found throughout the text. Bibliographical footnotes.

**Copy seen:** DLC.

**22003. GAGGE, ADOLF PHARO, 1908—** . The influence of clothing on the physiological reactions of the human body to varying environmental temperatures. (American journal of physiology, Oct. 1938. v. 124, p. 30-50, 7 fig.) **Other authors:** C.-E. A. Winslow and L. P. Herrington.

Contains a study in partitioned calorimetry consisting of 312 experiments with clothed subjects. The standard clothing employed consisted of a two-piece suit of cotton underwear, a cotton shirt, socks, low leather shoes, a dark-gray single-ply suit with three-quarter lined coat and fully-lined vest. Observations include temperatures; metabolism; heat loss due to evaporation; heat loss or gain by convection; heat loss or gain by radiation; and, heating or cooling of the body tissues ("storage"). Bibliography (19 items).

**Copy seen:** DLC.

**22004. GAGGE, ADOLF PHARO, 1908—** , and L. P. HERRINGTON. Physiological effects of heat and cold. (Annual review of physiology, 1947. v. 9, p. 408-428)

A review and summary of the work published in this field from July 1945 to July 1946 with sections on: fatal exposure to cold; standard thermal stress and equivalent physiological response; sweat, body fluids and metabolites; climatology and civilian problems. Bibliography (91 items).

**Copy seen:** DSG.

**22005. GAGGE, ADOLF PHARO, 1908—** , and others. A practical system

of units for the description of the heat exchange of man with his environment. (Science, Nov. 7, 1941. v. 94, no. 2445, p. 428-30) *Other authors:* Alan C. Burton and H. C. Bazett.

*Contains* presentation of a proposed system of units for measuring thermal exchanges of the human body, and understandable to the heating engineer, the physician and the physiologist. A thermal activity unit *met* (= 50 calories per hour per m<sup>2</sup> of the surface area of the individual) and an insulation unit *clo* based on everyday clothing, are discussed and proposed.

**Copy seen:** DLC.

**GAGGE, ADOLF PHARO, 1908-**, *see also* Herrington, L. P., & A. P. Gagge. Temperature regulation. 1943. No. 22596.

**GAGGE, ADOLF PHARO, 1908-**, *see also* Winslow, C.-E. A., & others. Heat exchange & regulation in radiant environments. 1940. No. 27450.

**GAGGE, ADOLF PHARO, 1908-**, *see also* Winslow, C.-E. A., & others. Influence air movement upon heat losses. 1939. No. 27451.

**GAGGE, ADOLF PHARO, 1908-**, *see also* Winslow, C.-E. A., & A. P. Gagge. Influence physical work reactions thermal environment. 1941. No. 27453.

**GAGGE, ADOLF PHARO, 1908-**, *see also* Winslow, C.-E. A., & others. Physiological reactions human body varying temp. 1937. No. 27455.

**22006. GAGIEV, G. I.** Peredovoi opyt po vyraschivaniu tseypliat v kolkhozakh Komi ASSR. (Ptitsevodstvo, April 1952. no. 4, p. 25-28, illus.) **Title tr.:** Modern experiment in raising chicks on the kolkhozes of the Komi A.S.S.R.

*Contains* information and data on raising chicks in Komi (including its northern part) with incubators and other modern methods, thought not feasible several years ago. Over 95 per cent of hatching is reported from various farms, together with data on growth, housing, etc. Experiments on finding out the optimal local conditions and requirements, as well as the special changes noticed in the chicken, are also reported. Problems of food, light, maintenance in the open are discussed.

**Copy seen:** DLC.

**GAIDUKOV, NIKOLAI MIKHAILOVICH, 1874-1929**, *see* Elenkin, A. A., & L. A. OP. Dopolnitel'nye dannye po bibliog. II. 1950. No. 21631.

**22007. GAIL, GARRI.** Laminariyevye vodorosli dal'nevostochnykh morei. (Akademiya nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1936. no. 19, p. 31-62, illus.) **Title tr.:** Laminariales of the Far Eastern seas.

*Contains* general characteristics of Laminariales, a survey of the genera, a morphological and biological study, and enumeration of 30 species of Laminaria algae of the Far Eastern seas, including many species native to the Bering and Okhotsk. A general sketch is given of the algal zone of the Far East, divided by the author into six subzones (including Okhotsk-Shantar, Bering and Komandorskiye); and a summary list of 30 species added with note of occurrence and distribution. Bibliography (36 items). Summary in German.

**Copy seen:** DLC; MH-Z.

**22008. GAIL, GARRI.** Syr'evye resursy iodoval'noy promyshlennosti DVK. (Rybnoe khoz'istvo Dal'nego Vostoka, 1931. no. 3-4, p. 41-43, illus.) **Title tr.:** Natural resources of the iodine industry of the Far Eastern Region.

*Report* on a survey, made by seven groups over an area of 12,000 km. (in Okhotsk Sea and adjacent waters), to establish the amount and kinds of seaweeds suitable for iodine production.

**Copy seen:** DLC.

**GAJDA, R. T.**, *see* Canada. Dept. of Mines & Technical Surveys. Geographical Branch. Introduction to geography of Canadian Arctic. 1951. No. 21096.

**22009. GALAKHOV, A. V.** K voprosu o vozraste svity Kelv. (Akademiya nauk SSSR. Doklady, 1948. T. 61, p. 499-500) **Title tr.:** On the age of the Keiv series.

*"Concludes* that the Keiv series, a complex of paragneisses and crystalline schists, in the central part of the Kola Peninsula, U.S.S.R., which has usually been variously assigned to the pre-Cambrian and the Paleozoic, is Archean in age."—Geological Society of America, *Bibliography and index of Geology*.

**Copy seen:** DLC.

**GALAZIL, G. I.**, *see* Tikhomirov, B. A., & G. I. Galazil. Opred. vozrasta Sieversii. 1953. No. 26706.

**22010. GALBRAITH, FRANK W.** The distribution of utilities in arctic advanced bases. (Military engineer, Mar.-Apr. 1950. v. 42, p. 121-22, illus.)

On the design, location, and structural requirements of a pre-fabricated utilities duct containing lines for water, steam, condensate return, electrical power, communications, and a line for either sewage or oil; with discussion of permafrost problems which make surface location desirable. **Copy seen:** DGS; DLC.

**22011. GALE, GEORGE JENNINGS.** Nenana. (Alaskan, Fall 1949. v. 2, no. 3, p. 3, 7)

Facts concerning the Nenana Ice Pool (a joint gambling venture with high stakes on the time the winter ice breaks in the river); it was started in 1917 and became a leading occupation for the white population of this small settlement (64°31' N. 149°06' W.) on the Nenana River. **Copy seen:** DI.

**GALLIGAN, AGNES,** see National Research Council. Subcommittee on Clothing. Clothing test methods. 1945. No. 24577.

**22012. GALLWITZ, HANS, 1896-** . Eiskeile und glaziale sedimentation. Berlin, Akademie-Verlag GMBH, [1949]. 24 p., illus., 2 plates. (Geologica, 2) **Title tr.:** Ice wedges and glacial sedimentation.

On the basis of works published since 1922, the author states the modern concept of the relation of frost cracks to ice wedges; defines wedge fissures, frost cracks, ice wedges and ice lenses; describes the growth and form of ice wedges under varying conditions, and the formation of ice lenses; then he presents the problem of fossilization of ice wedges which requires their classification into epigenetic and syngenetic, intact or disturbed forms; finally he indicates the significance of this knowledge in the study of previous climates. Bibliography (46 items).

"Ice wedges form in the deeper ground areas as a result of repeated heavy frosts. Such wedges may be maintained in a fossil condition as indicators of paleoclimatic conditions. The various ice wedge forms originate under differing requirements while growing. Changing penetration depths of the ground frost and the changing sediment cover on the ground determine ice wedge formations to a large extent. Epigenetic wedges origi-

nate in case of an unchanging ground surface. Syngenetic wedges, which are long and narrow, form when the ground surface is covered with sediments during frost. Undisturbed and disturbed ice wedges form during fossilization depending upon the type of sediment present. The duration of a frost period may be determined by the width of undisturbed samples of ice wedges."—SIPRE.

**Copy seen:** DGS; DLC.

**GALT, JOHN,** see *Polar record*. Cosmic ray investigations 1949-50. 1951. No. 25138.

**22013. GAMOV, V. S.** K khirurgicheskomu lecheniū vysokikh stepenef otmorozheniū v ēvakogospitalākh Leningrada. (Khirurgiā, 1944. god 14, no. 12, p. 35-41, illus.) **Title tr.:** On surgical treatment of severe frostbite in evacuation hospitals of Leningrad.

Contains a description of primary stumps due to frostbite and an outline of their defects; clinical aspects of "trench foot" as compared with "dry" frostbite; early surgical treatment of frost damage and its advantages. **Copy seen:** DLC.

**GAMOV, V. S.,** see also Ar'ev, T. Ī., & others. Otmorozheniā. 1951. No. 20301.

**22014. GAMS, H.** Variations des limites de la vegetation alpine et variations des glaciers. (Terre et la vie, Oct.-Dec. 1949. v. 19, no. 5, p. 178-93, illus., maps) **Title tr.:** Variations of limits in alpine vegetation and variations of glaciers.

Contains a study (based on numerous sources) relating the advances and retreats of some common conifers and other plants of the Alps, the Fennoscandian mountains, with corresponding fluctuations in the extent of glaciers and ultimately with variations in climate. Bibliography (38 items).

**Copy seen:** CaMAL.

**22015. GAPANOVICH, IVAN IVANOVICH, 1891-** . Kamechatskie korāki, sovremennoe polozhenie plemeni i znachenie ego olenogo khoziāstva. Tientsin, China, A. J. Serebrennikov & Co., 1932. 98 p. map. **Title tr.:** The Koryaks of Kamchatka, their present living conditions and the significance of their reindeer-breeding.

**Contents tr.:** Introduction on the origin of the Koryaks, p. 1-6; chapter 1 (p. 7-24), the tribe, its life and trade;

chap. 2 (p. 25-42), reindeer-breeding; chap. 3 (p. 43-55), social organization and religion; chap. 4 (p. 56-70), Russian influence on the Koryaks; chap. 5 (p. 71-83), improvement of the living conditions; conclusion (p. 84-88), structure of the Koryak language; bibliographical notes, p. 89-92. Summary in English, p. 93-98. **Copied seen:** MH-P.

**22016. GAPANOVICH, IVAN IVANOVICH, 1891-** . Promysel kitoolobraznykh i lastonogikh na Dal'nem Vostoke. (In: Dal'ne-Vostochnyy Kray. Upravlenie rybolovstva i okhoty na morskogo iveria. Rybnye i pushnye bogatstva Dal'nego Vostoka, 1923. p. 316-41, illus.) **Title tr.:** The whaling and sealing industry in the Far East.

A general description of the species found in the area and their biology; whaling and sealing methods, native and modern; boats, hunting seasons; economic value of the industry.

**Copied seen:** DLC.

**22017. GAPANOVICH, IVAN IVANOVICH, 1891-** . Rossiia v severo-vostochnoi Azii. Chast' 1, Kolonizatsiia severa v proshlom i nastoiashchem. Chast' 2, Bogatstva severa, ikh ekspluatatsiia i vozmozhnosti. Pekin, Pekinskoi Russkoi Missii, 1933-34. x, 186 p. map; ix, 197 p., fold. map. **Title tr.:** Russia in northeastern Asia. Part 1, Colonization of the North, past and present. Part 2, Resources of the North, their exploitation and development.

Contains in the first part, a description of the Russian Northeast, covering the Okhotsk coast, Kamchatka Peninsula, Anadyr'land, and the arctic coast. The seacoast and its navigation hazards, the volcanoes, mountains, climate, flora and fauna are surveyed. History of colonization by the Russians since 1648 is outlined and the population in 1925 indicated: Chukchis 13,000, Koryaks 7,900, Kamchadals 2,200, Tungus 2,000, Yakuts 1,000, Eskimos 1,400, Aleuts 600, Lamuts 300, Chuvantzy 500, Yukaghirs 100; Russians about 12,000 (settled near Petropavlosk and in the valley of the Kamchatka). The Paleo-Asiatics are treated in detail: their fishing economy (on the coast), reindeer-breeding (in the mountain tundra), hunting (Kamchadals are noted as sable hunters); their social organization (a large family), status of women (comparatively independent), belief in numerous spirits and shamanism. Demoralization of the

natives is attributed to Russians and the Japanese fishermen (about 30,000) and American whale-hunters and merchants mentioned as factors in the economy of the area, the Americans having considerable influence, especially in the Chukotsk Peninsula, where the Chukchis like their trade goods and know their language better than Russian. The strategic position of Kamchatka is noted. Administration and government is outlined including that among native groups.

Part 2 deals with recent economic conditions: hunting and fur trade (statistics on p. 14); whale, walrus and seal hunting, reindeer-breeding among the Koryaks (about 8 million head in Kamchatka); the fishing industry (salmon the most important fish, statistics on p. 46-47); the mining industry (gold mines in Okhotsk, surface coal in Kamchatka, oil); the Commander Islands fur trade (sea otter, fur seal, blue fox, handled by Aleuts, a small tribe of about 400); cattle and horse-breeding in the Kamchatka valley; dog-breeding (more than 30,000 dogs consuming about 8 million fish a year. The difficulties of communication by sea and land are touched upon and the sledge noted as the best means of transport. Chapter 7 (p. 161-73) deals with Alaska, and the final chapter with colonial problems and policies in the Russian North. Summary in English pt. 1, p. 174-81; pt. 2, p. 190-197.

**Copied seen:** DLC.

**22018. GARDNER, GÉRARD.** Considérations sur la valeur économique du Grand-Nord canadien. 1952. 115 p. tables, map. (Montreal. École des Hautes Études Commerciales. Service de Documentation Economique. Étude no. 5) **Title tr.:** Considerations on the economic value of the Canadian North.

Contains a thoroughly documented socio-economic study of a primarily practical character, with an historical-geographic sketch (p. 5-22) of the explorations and economic developments from the end of the 16th century up to date; chapters on agriculture (agricultural areas, production, possibilities, etc., (p. 23-36); forestry (areas, production and products: paper), sea and fresh-water fisheries (production, value and economics), whaling, sealing and fur trade (p. 37-66); mineral resources and exploitation (p. 67-113), including Yukon and Yellowknife gold, uranium of the Great Bear Lake area, Norman oil fields; west-

Hudson Bay region's prospects; the Labrador-Quebec iron ore deposits, etc. Data are presented on transportation, power, population, etc., in relation to exploitation of these natural resources.

**Copy seen:** CaMAI.

**22019. GARF, A. L., and V. V. POKSHISHEVSKII.** Sever. Moskva, 1948. 264 p. illus., plates, maps (incl. 1 fold.), diags. (Geograficheskaiâ nauchno-khudozhestvennaia seriia Nasha Rodina) **Title tr.:** The North. (Geographic, scientific, artistic series *Our Native Land*)

*Contains* a presentation for youth, of life in the "Northern Region," roughly between 58°-66° N. and 36°-58° E., from the Finnish border to Ural Mts., including the districts of Vologda, Kotlas, Syktyvkar, and Arkhangel'sk: descriptions of the vegetation and wildlife, communication (building of new canals), the cities of Vologda and Arkhangel'sk, Moseev Island (64° N. lat.) in the Northern Dvina estuary; account of a trip on the Northern Dvina to Kotlas, the lumbering industry, a village in the North, land of the Komi (Zyryans), oil industry in Ukhta and coal mining in Vorkuta, etc. A "geographical supplement" (p. 223-51) gives popularized data on climate, rivers, forests and swamps, lumbering and other industries, agriculture, transportation, population and cities. The text throughout is profusely illustrated and amplified by graphs and pictographs. A glossary of terms used in the North is added at end as well as the index.

**Copy seen:** DLC.

**22020. GARFIELD, VIOLA E., 1899-** Historical aspects of Tlingit clans in Angoon, Alaska. (American anthropologist, July-Sept. 1947. v. 49, no. 3, p. 438-53)

*Contains* historical data, partly legendary, leading to the present composition and social organization of the populace of Angoon, a Tlingit town on the southeast side of Admiralty Island. The study shows the importance of the house group in Tlingit social organization. Factors favoring its continuance as well as those disruptive to it, are discussed. Bibliographical footnotes.

**Copy seen:** DSI-M.

**22021. GARFIELD, VIOLA E., 1899-** Survey of southeastern Alaskan Indian research. (In: Alaskan Science Conference . . . 1950. Selected papers, 1952. p. 20-37)

*Contains* information on: the number of Indians living now and formerly in the region from Copper River eastward to the Canadian border, the areals of Tlingits, Tsimshians and Haidas; the early Russians, Spanish, English and Americans in the region, their relations with the Indians, and records of native life. The Alaska Purchase of 1867 is noted, and subsequent American missions and expeditions to the area are appraised as to teaching activities, and study of the Indians' languages, social organization, myths, folklore, art, resource areas, etc. Further and coordinated research is urged. Bibliography (68 items).

**Copy seen:** DAI; DLC.

**22022. GARRUTT, V. E., and V. B. DUBININ.** O' skelete Taymyrskogo mamonta. (Zoologicheskii zhurnal, 1951. t. 30, vyp. 1, p. 17-23, illus., plate) **Title tr.:** On the skeleton of the Taymyr mammoth.

*Contains* data on some results of the Taymyr Complex Expedition of the Academy of Sciences U.S.S.R. in 1949, which brought home an almost complete set of bones of the mammoth found in the northwestern part of the Peninsula. This paper deals chiefly with the restoration of the skeleton (see plate).

**Copy seen:** MH-Z.

**22023. GASCHÉ, E.** Spitzbergen-Fahrt 1950; Reisebericht. Basel, 1951. 47 leaves, tables, map. Mimeographed. **Title tr.:** Spitsbergen expedition 1950; travel narrative.

*Contains* account of the Norsk Polar-institutt 1950 Svalbard Expedition, K. Z. Lindquist leader, which the author, supported by Basel Natural History Museum, accompanied in its 3-man geological party, to investigate fossil calcareous algae in the Recherche Bay (77°30' N. 15° E.) region of West Spitsbergen. Includes account of the trip on the *Minne*, the expedition's personnel, etc.; outline of the geology of West Spitsbergen and (p. 14-15) the party's geological work; meteorology, flora and fauna of the area studied; discussion of the destruction of cadavers and the possibility of fossil formation in the Arctic, etc. Bibliography (22 items).

**Copy seen:** CaMAI.

**22024. GASSER, GEORGE WILLIAM, 1875-**, and C. L. LEFEBVRE. Growing potatoes in Alaska. Fairbanks, Alaska,

1949. 51 p., illus. (Alaska. Dept. of Agriculture. Circular, no. 6)

Contains sections on the origin and history of potatoes; potatoes as food; tuberization; soil and soil preparation; seed varieties; planting; fertilizers and fertilization; cultivation, etc.; harvesting; storage, marketing, etc.; potato diseases in Alaska: preventive and control measures (general and specific) for each of the 13 diseases covered; non-parasitic abnormalities.

**Copy seen:** DA.

**22025. GASSER, GEORGE WILLIAM, 1875-** . Growing vegetables in Alaska. Fairbanks, Alaska, 1947. 27 p., tables (Alaska. Dept. of Agriculture. Circular, no. 5)

Contains sections on location, soil and preparing of gardens; fertilizers and compost; starting and transplanting of plants; thinning, cultivation, harvesting and storing; greenhouses; parasites and diseases; weather data, etc. Bibliography (13 items).

**Copy seen:** DA.

**GATHORNE-HARDY, GEOFFREY MALCOLM, 1878-** , see Gullers, K. W., & S. Hoel. Norway. 1951. No. 22274.

**22026. GAUNITZ, C. B.** Bidrag till kännedom om Cerambycidernas förekomst inom Sorsele socken av Lycksele Lappmark. (Entomologisk tidskrift, 1927. Årg. 48, häft. 3, p. 177-79) **Title tr.:** A contribution to the knowledge of the occurrence of Cerambycidae in Sorsele parish, Lycksele Lappmark.

Contains a list of 27 species of Cerambycidae collected in 1907-1921, by D. and S. Gaunitz, with data on habitat and local distribution; for additions to this list see the author's *Cerambycider från Sorsele socken*, 1928.

**Copy seen:** DA; MH-Z.

**22027. GAUNITZ, C. B.** Carabider från Sorsele socken. (Entomologisk tidskrift, 1932. Årg. 53, häft 1, p. 39-55) **Title tr.:** Carabidae from Sorsele parish.

Contains a list of 66 ground beetles (Carabidae) collected by the author and others (1907-21, 1927-29) in Sorsele parish in central Lapland; with a table of distribution of 45 species in Sorsele and adjoining regions of Lapland, data on habitat and ecology.

**Copy seen:** DA; MH-Z.

**22028. GAUNITZ, C. B.** Cerambycider från Sorsele socken. (Entomologisk tidskrift 1928. Årg. 49, häft. 4, p. 248-50)

**Title tr.:** Cerambycidae from Sorsele parish.

Contains a list of ten species of Cerambycidae from Sorsele parish, Lycksele Lappmark, and another list of nine species from other regions of Swedish Lapland; published as a supplement to the author's *Bidrag till kännedom om Cerambycidernas förekomst inom Sorsele socken av Lycksele Lappmark*, 1927, q. v.

**Copy seen:** MH-Z.

**22029. GAUNITZ, C. B.** Cerambycider från Sorsele socken. (Entomologisk tidskrift, 1930. Årg. 51, häft. 1, p. 72-75) **Title tr.:** Cerambycidae from Sorsele parish.

Contains a list of 15 species of Cerambycidae collected in 1920 in Sorsele parish, Swedish Lapland, with localities and occasional critical notes; published as a supplement to the author's paper of the same title, 1928, q. v.

**Copy seen:** DA; MH-Z.

**22030. GAUNITZ, C. B.** Coleoptera från Sorsele socken av Lycksele Lappmark. (Entomologisk tidskrift, 1928. Årg. 49, häft. 2, p. 84-92) **Title tr.:** Coleoptera from Sorsele parish, Lycksele Lappmark.

Contains a general sketch of the beetle fauna of this district in northern Sweden and a systematic list of over 300 species.

**Copy seen:** DA; MH-Z.

**22031. GAUNITZ, C. B.** *Ectobius lapponicus* L. als Vorratsschädling in Lappland, eine sicher unrichtige Vermutung in neuer Beleuchtung. (Konowia, 1936. Bd. 15, heft 3-4, p. 162-66) **Title tr.:** *Ectobius lapponicus* L. as a pest of food stores in Lapland, a wrong opinion in the light of new investigations.

Contains the results of author's investigations of the damage done to food supplies (chiefly dried fish and meat) in Lapland by an orthopteran, *Ectobius lapponicus*. Although references to such activity of this insect are in many zoological papers, it was found completely unjustified by the author. The damage to dried fish in Lapland he found to be done by two other insects: *Thanatophilus lapponicus* and *T. rugosus* ("Hingsch" in Lappish).

**Copy seen:** MH.

**22032. GAUNITZ, C. B.** Elaterider från Sorsele socken. (Entomologisk tidskrift, 1930. Årg. 51, häft. 1, p. 75-78) **Title tr.:** Elateridae from Sorsele parish.

Contains a list of 22 click-beetles

(Elateridae) collected in this section of Lycksele Lappmark, in northern Sweden.

**Copy seen:** DA; MH-Z.

**22033. GAUNITZ, C. B.** Lappfolkets fruktade skadegörare. (Entomologisk tidskrift, 1928. Årg. 49, häft. 4, p. 253-54) **Title tr.:** The much-feared insect of the Lapps.

Contains the author's observations on two species of orthopterans, *Ectobius lapponicus* and *Thanatophilus rugosus*, which destroy the stores of dried fish used as food by the natives of Lapland; with data on their distribution and ecology; further data on these domestic pests is given in the author's Till frågan om *Ectobius lapponicus* L., 1935, q.v.

**Copy seen:** DA; MH-Z.

**22034. GAUNITZ, C. B.** Några anteckningar från Sorsele socken om arterna *Carabus violaceus* L. och *Carabus glabratus* Payk. (Entomologisk tidskrift, 1933. Årg. 54, häft. 3-4, p. 283-88, illus.) **Title tr.:** Some notes on *Carabus violaceus* L. and *C. glabratus* Payk. from Sorsele parish.

Contains data on the geographic distribution (list of localities) and ecology of these two closely related species of beetles, both native to Sorsele parish, Swedish Lapland.

**Copy seen:** DA; MH-Z.

**22035. GAUNITZ, C. B.** Till frågan om *Ectobius lapponicus* L. förmenta skadegörelse i Lappland. (Entomologisk tidskrift, 1935. Årg. 56, häft. 3-4, p. 138-50) **Title tr.:** On the question of the damage caused by *Ectobius lapponicus* within Lapland.

Contains a study of systematics of *Ectobius lapponicus* and of damage done by this domestic pest to the stores of dried fish, chief source of food of the Lapps; identity of this species and of some other pests (*Thanatophilus rugosus* and *T. lapponicus*) studied on the basis of literature data and observations carried out by Daniel Gaunitz, in the summer of 1931, in Sorsele parish, Swedish Lapland. See also the author's paper Lappfolkets fruktade skadegörare, 1928.

**Copy seen:** DA; MH-Z.

**22036. GAUNITZ, DANIEL.** Gadd- och guldsteklar från Sorsele, Lycksele Lappmark. (Entomologisk tidskrift, 1929. Årg. 50, häft. 3-4, p. 196-202) **Title tr.:** Stinging hymenoptera and gold wasps from Sorsele, Lycksele Lappmark.

Contains a list of about 60 species of stinging hymenoptera and gold wasps collected by the author during his trip to Sorsele parish in Swedish Lapland, in the summer of 1928, with data on habitat and local distribution.

**Copy seen:** OU.

**22037. GAUNITZ, DANIEL.** Vattenhemipterer från Sorsele, Ly. Lpm. (Entomologisk tidskrift, 1937. Årg. 58, häft. 3-4, p. 184-85) **Title tr.:** Aquatic hemiptera from Sorsele, Lycksele Lappmark.

Contains a list of 15 water bugs collected by the author in Sorsele parish in Swedish Lapland.

**Copy seen:** MH-Z.

**22038. GAUNITZ, SVEN.** Dolichopodider från Sorsele och Småland. (Entomologisk tidskrift, 1933. Årg. 54, häft. 2, p. 141-43) **Title tr.:** Dolichopodidae from Sorsele and Småland.

Contains a list with localities of 17 species of the dipterous family Dolichopodidae, collected mostly by the brothers Daniel, C. B., and Sven Gaunitz in Sorsele parish in 1929.

**Copy seen:** DA; MH-Z.

**22039. GAUNITZ, SVEN.** Fyndorter för arter av släktet *Chilosia* Meig. samt ett fynd av *Myiolepta ruficornis* Zett. (Diptera) i Sverige. (Entomologisk tidskrift, 1933. Årg. 54, häft. 2, p. 143-44) **Title tr.:** Localities of the species of the genus *Chilosia* Meig. and a find of *Myiolepta ruficornis* Zett. (Diptera) in Sweden.

Contains a list of 20 species of the syrphid fly genus *Chilosia* with localities, including ten native to Swedish Lapland, and of *Myiolepta ruficornis* from Sorsele parish, Lapland; *Chilosia semifasciata* (Saltuokta, Lapland) is new to the insect fauna of Sweden.

**Copy seen:** DA; MH-Z.

**22040. GAUNITZ, SVEN.** Notizen über die Gattung *Zelima* (Dipt. Syrphidae). (Opuscula entomologica, 1947. Bd. 12, häft. 1-3, p. 81-84) **Title tr.:** Notes on the genus *Zelima* (Diptera Syrphidae).

Contains a list of eleven species of syrphus flies with localities and critical notes on *Zelima abiens*, native to Swedish Lapland; includes also six other species of the same genus from Sorsele parish in Swedish Lapland.

**Copy seen:** DA; MH-Z.

**22041. GAUNITZ, SVEN.** Om tre syrphidarter (mit einer deutschen Beschrei-

bung). (Entomologisk tidskrift, 1936. Årg. 57, häft. 1., p. 6-9, illus.) **Title tr.:** On three syrphus flies (with a German description).

*Contains descriptions of *Platychirus latimanus*, *P. melanopsis*, and a German diagnosis of *Temnostoma apiforme carens* n. var., all native to Swedish Lapland.*

**Copy seen:** DA; MH-Z.

**22042. GAUNITZ, SVEN.** Syrphider från Sorsele socken av Lycksele Lappmark. (Entomologisk tidskrift, 1928. Årg. 49, häft. 3, p. 163-67) **Title tr.:** Syrphidae from Sorsele parish in Lycksele Lappmark.

*Contains a list of 76 species in 27 genera of syrphus flies (Syrphidae), with dimensions and occasional notes on habitat.*

**Copy seen:** DA; MH-Z.

**22043. GAUNITZ, SVEN.** Till kännedom om Sveriges odonater. (Entomologisk tidskrift, 1929. Årg. 50, häft. 3-4, p. 203-205) **Title tr.:** A contribution to the knowledge of Swedish Odonata.

*Contains a systematic list of 25 species of dragonflies collected in various parts of Sweden by the author, D. Gaunitz and C. B. Gaunitz, during 1910-28, including 12 species from Sorsele parish in Swedish Lapland.*

**Copy seen:** OU.

**22044. GAUROY, PIERRE.** Le Grand-Nord canadien; 1re traversée du "Passage du Nord-Ouest", d'ouest en est. (La Nature, juin-juil. 1951. p. 183-86, 193-97, illus., map) **Title tr.:** The Canadian far North; first voyage through the Northwest Passage from west to east.

*Contains a sketch (in pt. 1) of the Canadian Arctic and the Royal Canadian Mounted Police administration, and (pt. 2) an account of the voyage of the St. Roch, 1940-42.*

**Copy seen:** DSI-M.

**22045. GAVELIN, AXEL.** Über die Gletscher des Norra Storfjället und des Ammarfjället. Stockholm, 1910. 42 p. 34 illus. (incl. 8 maps), plate (map). (Sweden. Geologiska undersökning. Afhandlingar och uppsatser. Ser. Ca, no. 5, pt. 4) **Title tr.:** The glaciers of the Norra Stor Mts. and the Ammar Mts.

*Descriptions of the eight Norra Storfjäll glaciers and the single Ammarfjäll glacier (between 65°45' N. and 66°10' N.) are given. These are the only glaciers to be found in southern Swedish Lapland. Both massifs have an altitude of over 1600 m.*

**Copy seen:** DLC.

**22046. GAVEMAN, ALEKSANDR VASIL'EVICH, 1903-** . V stranu vulkanov; putevye zametki geografa. Moskva, Izd-vo Moskovskogo ob-va ispytatelei prirody, 1949. 127 p., illus. (Moskovskoe obschestvo ispytatelei prirody. Sredi prirody, vyp. 16) **Title tr.:** Into the land of volcanoes; the itinerary of a geographer.

*Account of a flight from Moscow via Sverdlovsk - Kirensk - Irkutsk - Magadan to Petropavlovsk (p. 9-75) with remarks on terrain; description of Kamchatka, the volcanoes, appearance from the air, vegetation, forests, timber and fishing; return flight to Moscow.*

**Copy seen:** DLC.

**22047. GAVRILOV, S. E.** Snezhnye zanosy i bor'ba s nimi. Moskva, Gos. transp. zhel-dor. izd-vo, 1945. 228 p. illus., tables, diagrs. **Title tr.:** Snow drifts and the fight against them.

*Contains an extensive study of the problem as encountered by the railwayman, with sections on the weather conditions during the winters of 1931-1943 in Russia; extent the main railway lines were affected by snow during this period; preparations for combatting snow, protecting the lines from drifts by portable and stationary means, snow fences, etc., use of trees; temporary protection; methods of removing drifts from stations and lines, mechanization. Appendix presents tabular data on snowstorms, frosts, labor required for snow removal, etc.*

**Copy seen:** DLC.

**22048. GAWN, W. L.** Aspects of the locomotion of whales. (Nature, Jan. 1948. v. 161, no. 4080, p. 44-46, diagrs.)

*Contains data on maximum speed obtained by whales; analysis of body shape, propulsive power and efficiency of locomotion; horsepower developed per unit of body weight; comparison with locomotion of fish and porpoises; significance of such studies for ship design. Bibliography (6 items).*

**Copy seen:** DA.

**GEBEL', G. F.,** see Alferaki, S. N. Gusi Rossi. 1904. No. 20133.

**22049. GEHRIG, LEO JOSEPH, and E. A. SCHWINGE.** "Must we all die of TB?" (Alaska's health, 1947. v. 5, p. 1-3)

*Stressing the local working problems due to the size, climate and transportation difficulties of the Territory, the authors give an outline of the activities*

of a mobile health-truck which carries public health facilities to isolated areas, especially in tuberculosis. Lack of hospital beds, unsanitary conditions, and malnutrition are noted as aiding the advance of this disease. Recommendations follow. **Copy seen:** DSG.

**22050. GEIGER, RUDOLF, 1894-** . The climate near the ground. A translation by Milroy N. Stewart and others of the 2d German editions of "Das Klima der bodennahen Luftschicht" with revisions and enlargements by the author. Cambridge, published for the Blue Hill Meteorological Observatory by Harvard Univ. Press, 1950. xxi, 482 p., illus., maps, tables, diagrs.

An extensive monograph with recent additions by the author, making it equivalent to the third German edition. Following an introductory chapter on microclimate and microclimatic research, part I deals with the microclimate existing near the ground by virtue of proximity to the ground surface, with sections on: heat exchange, temperature relationships and other meteorological elements near the ground; influence of the ground itself on the climate near it. Part II deals with microclimate in its relation to topography, plants, animals and man, with sections on: the influence of topography, and plant cover; relation of animate creatures and man to microclimate. The following chapters deal specifically with cold weather conditions: 16, the air layer near snow (p. 164-74); 18, cold air floods and cold air dams (p. 195-203); 20, cold air winds, down-slope, down-valley and glacier winds (p. 211-14); 39, the conscious modification of the microclimate by man (p. 386-95); 40, destructive frost as microclimatic phenomenon (p. 396-402); 41, the battle against destructive frost (p. 403-412). Bibliography (about 850 items). The first edition of this book appeared in 1927 and was translated into English by John Leighly.

**Copy seen:** DA; DLC.

**22051. GEKKER, R. F.** Īvleniā prīrastniā i prikrepleniā sredi verkhnedevonskoī fauny i flory Glavnogo polfa. Ocherki po etologii i ekologii naseleniā paleozoiskikh morel Russkoī platformy, I. (Akademīā nauk SSSR. Paleontologicheskii institut. Trudy, 1935. T. 4, p. 159-280, illus., plates 1-17). **Title tr.:** The phenomena of adhesion and attachment in Devonian fauna and flora of the Main plateau. Sketches on the

ethology and ecology of the population of Paleozoic seas of the Russian plateau, I.

**Contains** a study of the evolution of the organs of attachment and adherence in the plant and animal worlds, based on the study of fossil remains from Upper Devonian of the Main Russian plateau, with data on algae (Schizophyceae), Stromatoporida, corals, worms, brachiopods and echinoderms; material includes many species native to the Murmansk coast. Summary in German, p. 264-71.

**Copy seen:** DLC; MH-Z.

**22052. GELERT, OTTO, 1862-1899.** Notes on arctic plants, I-III. (Botanisk tidsskrift, 1897-98, pub, 1898. Bd. 21, hefte 3, p. 287-318, illus.)

**Contains** critical notes on *Eutrema arenicola* (I), three species of *Brya* (II) and ten species of herbaceous genus *Draba*. The range of distribution of all these species covers the arctic regions of Europe, Asia, North America and all arctic islands. Summary in Danish, p. 311-15.

**Copy seen:** DLC; MH-A.

**GELERT, OTTO, 1862-1899, see also** Ostenfeld, C. E. H. Flora arctica. 1902. No. 24900.

**22053. GELIN, OLOV E. V.** The distribution in Scandinavia of *Plectania protracta* (Fries) Gelin, comb. nov. and *Plectania coccinea* (Scop) Fückel. (Norske videnskabers selskab, Trondhjem. Forhandlinger, 1937, pub. 1938. Bd. 10, nr. 52, p. 194-97, text map)

**Contains** a study of Scandinavian distribution of two fungi, *Plectania protracta*, comb. nov. native to Torne Lappmark in Sweden and Tromsø in Norway, and *P. coccinea* occurring in Nordland, Norway, with critical notes and a list of localities.

**Copy seen:** DSI-M; MH.

**22054. GELLERT, JOHANNES F.** Die geographischen Namen in der Sowjetarktis und ihre Wiedergabe im Englischen. (Petermanns geographische Mitteilungen, 1951. Jahrg. 95, p. 111-13) **Title tr.:** Geographic names in the Soviet Arctic and their English equivalents.

**Contains** a brief analysis of the points raised by T. Armstrong in *Place-names in the Soviet Arctic*, 1950, q.v., concerning the origin, structural form, transliteration, and various usages connected with Soviet place names. Gellert comments on the current German practice.

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**22055. GELLHORN, E., and J. FELD-MAN.** The influence of cold and heat on the vago-insulin and the sympathetico-adrenal systems. (American journal of physiology, July 1941. v. 133, p. 670-75)

*Contains* a study on normal (A), adreno-demedullated (B), vagotomized (C), and adreno-demedullated-vagotomized (D) rats exposed to cold or heat. On exposure to cold, group A showed hyperglycemia, B showed hypoglycemia and D showed no significant change in blood sugar. The experiments indicated that cold acts on both vago-insulin and sympathetico-adrenal systems. Bibliography (10 items). **Copy seen: DLC.**

**22056. GELTING, PAUL EMILELLIOT, 1905-** . Spørgsmaalet om Grønlands renbestand. (Grønlandsposten, Dec. 1947. Aargang 6, nr. 7, p. 116-18) **Title tr.:** The question of Greenland's reindeer stock.

*Discussion* of the problem of protecting and building the existing stock and importing domesticated reindeer.

**Copy seen: DLC.**

**22057. GENDEL, BENJAMIN R., and J. E. BENJAMIN.** Paroxysmal cold hemoglobinuria. (Connecticut state medical journal, May 1946. v. 10, no. 5, p. 406-408)

*Contains* a report of two cases, males with late syphilis, 25 and 34 years old. Cold hemoglobinuria was present 17 and 8 years respectively, without other deleterious effects. The patients did not respond to standard treatment with mapharsen and bismuth, nor to penicillin. Bibliography (13 items).

**Copy seen: DLC.**

**22058. GENETZ, ARVID, 1848-1915.** Kuollan lapin murteiden sanakirja ynnä kielenäytteitä. Helsingfors, 1891. xlv, 291 p. (Bidrag till kännedom af Finlands natur och folk, Häfte 50) **Title tr.:** A glossary of terms from the dialects spoken by the Kola Lapps and linguistic examples.

*Contains* introduction (in Finnish and German) outlining phonetics, and noting other published results of the author's sojourn in Russian Lapland in July-Dec. 1876; also (in German only, p. xiii-xlv) narrative of his trip with his ethnographic observations. He traveled to Solovetskiy Island and Arkhangel'sk, stopped at Kola and Ponoy, thence through the central and southern parts of the peninsula (Lovozero - Imandra -

Kandalaksha). A description is given of the Tersk Lapps (about 450 in number with 5 to 6 thousand head of reindeer, their material culture, a case of "arctic hysteria", etc.) and of the Semioistrovsk Lapps, particularly their religious practices and beliefs. Then follows trilingual glossary (Kola Lappish-Finnish-German) of 2,077 words, Finnish-German-annotated list of Lappish geographic names; German, also Finnish word indexes; examples (15 tales, 41 riddles, 2 songs) of linguistic usage in four dialects with German translation.

*This work* was reviewed extensively by K. B. Wiklund: *Das Kolalappische Wörterbuch von A. Genetz* (Suomalais-ugrilainen seura. Aikakauskirja, 1892. v. 10, p. 217-46). Wiklund concludes that the vocabulary represents a good collection of material and is useful to science, but that its arrangement is impractical and Genetz's reconstructions of the basic forms of the Lappish words often are unreliable. **Copy seen: DLC.**

**22059. GENETZ, ARVID, 1848-1915.** Ost-permische Sprachstudien. (Suomalais-ugrilainen seura. Aikakauskirja, 1897. v. 15, no. 1, p. 1-57) **Title tr.:** East Permian linguistic studies.

*Contains* material taken down by the author from the Zyryans living in the village Parshakova, district of Cherdyn (60° N. 56° E.) during a week in May 1889: Zyryan-German vocabulary, grammatical sketch and some texts, also two tales and two songs in Zyryan with German translation.

**Copy seen: DLC; InU.**

**GENETZ, ARVID, 1848-1915, see also** Abercromby, J., & A. Genetz. Earliest list Russian Lapp words. 1895. No. 20027.

**22060. GENKEL', A. G.** Predvaritel'nyĭ obzor rabot planktonnoi partii Karskoĭ ėkspeditsii 1925. (Molotov (formerly Perm') Universitet. Biologicheskii nauchno-issledovatel'skii institut, Izvestiia 1925. t. 4, no. 5, p. 197-99) **Title tr.:** Preliminary review of the plankton group of the Kara expedition of 1925. Summary in German.

**Copy seen: DLC.**

**22061. GENTRY, ROBERT C., and L. L. WEISS.** Preliminary report on stagnant highs over Greenland, Iceland and England and over the Bering Sea and Alaska, in July and August. (In: U. S. Weather

Bureau. A collection of reports on extended forecasting research, Jan. 1944. Research paper no. 9, p. 59-62, chart, table).—*Meteorological abstracts and bibliography*, Jan. 1951, v. 2, no. 1, p. 63.

**Copy seen:** DWB.

**22062. GEOGRAPHISCHE RUND-SCHAU.** Im Iglu der Eskimo. (Geographische Rundschau, Mai 1949. Jahrg. 1, p. 194-95, diagr.) **Title tr.:** In an Eskimo house.

Description (in general terms) of the building, use, and accouterments of the snowhouse, and remarks on Eskimo use of skins and hides for clothing.

**Copy seen:** DGS.

**22063. GEOGRAPHISCHE RUND-SCHAU.** Die letzten 10 Jahre der Polarforschung. (Geographische Rundschau, Mai 1949. Jahrg. 1, p. 193)

Casual résumé of arctic and antarctic exploration in the recent period.

**Copy seen:** DGS.

**GEOLOGISKA KOMMISSIONEN I FINLAND**, see Hackman, V. A., & W. W. Wilkman. Geol. översiktskarta över Finland: Kuolajärvi. 1926. No. 22316.

**22064. GEORGESON, CHARLES CHRISTIAN, 1851-1931.** The possibilities of agricultural settlement in Alaska. (In: American Geographical Society of New York. *Pioneer settlement*, New York 1932. p. 50-60, map, diagrs.)

*Contains* an introductory note on the similarity between the climatic and natural conditions of Alaska and those of Finland and Sweden: then follows discussion of Alaska's agricultural areas, climate, crops, agricultural experiment stations, homesteading land and homesteads. Bibliographical footnotes.

**Copy seen:** DLC.

**22065. GEORGESON, CHARLES CHRISTIAN, 1851-1931.** Suggestions to pioneer farmers in Alaska. (Alaska agricultural experiment stations. Bulletin, no. 1, 1902. p. 1-15, 7 plates)

*Contains* (on the basis of studies begun in 1898) recommendations concerned with land clearing, drainage, oxen as work animals; silos; and sterility of new ground.

**Copy seen:** DA.

**22066. GEORGESON, CHARLES CHRISTIAN, 1851-1931.** Vegetable growing in Alaska. (Alaska agricultural experiment stations. Bulletin, no. 2, 1905. p. 1-46, 5 tables)

*Contains* sections on the climate of interior and of coast region, soil conditions, liming, general observations on vegetable growing (shelter belts, exposure, drainage, fertilizers, hotbeds, cold frames, etc.). This is followed by recommendations for raising specific vegetables, altogether over 40 kinds, and some herbs (mint, sage, thyme, etc.)

**Copy seen:** DA.

**22067. GEORGI, JOHANNES, 1890-** Messgerät der direkten Sonnenstrahlung für Expeditionen. (Polarforschung, 1950, pub. 1951. Bd. 2, Jahrg. 20, p. 353-56) **Title tr.:** Apparatus for measuring the direct solar radiation during expeditions.

Notes on pyrheliometers used in the past, and their shortcomings as instruments for use on expeditions; list of the meteorological instruments used during the Second International Polar Year, 1932-33, and Wegener Expedition, 1931-32, with discussion; and description of a new piece of apparatus, tested during the summer of 1950, which should prove durable enough for use on expeditions.

**Copy seen:** DGS.

**22068. GEORGI, JOHANNES, 1890-** Über Sinn und Zweck der Polarforschung. (Polarforschung, 1948, pub. 1950. Bd. 2, Jahrg. 18, p. 1-4, i. e. p. 192-200) **Title tr.:** On the direction and purpose of polar research.

Philosophic remarks on the nature of polar research and the scientific research field in general.

**Copy seen:** DGS.

**22069. GEORGI, JOHANNES, 1890-** William Herbert Hobbs, ein Klassiker der wissenschaftlichen Arktisforschung. (Polarforschung, 1951. Bd. 3, Jahrg. 21, p. 9-12) **Title tr.:** William Herbert Hobbs, a classic figure in the scientific exploration of the Arctic.

Biographical sketch and tribute to the scientific scholarship and public service of this American glaciologist, noted for his work in West Greenland.

**Copy seen:** DGS.

**22070. GEORGIEVSKIĬ, N. P.** Issledovanie snegovogo pokrova na myse Shmidta v zimovku 1934/35 goda. (Problemy Arktiki, 1938. no. 3, p. 71-83, incl. tables, diagrs.) **Title tr.:** Investigation of snow cover on Cape Shmidt during 1934-1935 winter.

"The snow cover in the Cape Shmidt [68°58' N. 179°24' E.] region reaches an

average thickness of 26 cm. in Oct. and a maximum thickness of 84 cm. during mid-March. Precipitation is followed by strong winds which drift snow to 2-m. depths. Experiments with a snow dynamometer showed that the snowdrift resistance to compression varied with depth ranging from 0.8 kg./cm<sup>2</sup> at the surface to 1.4 kg./cm<sup>2</sup> at a depth of 5 cm. The resistances of snow crusts ranged from 13.5 to 21.0 kg./cm<sup>2</sup>. Fall and Spring air temperatures, snow surface, and ground surface temperatures indicated that the temperatures of the inner layers of snow gradually decrease during the winter until a minimum was reached in mid-March. Measurements made in October showed air temperatures of -16° C, snow surface temperatures of -19° C, and snow temperatures of -2.7° C at a depth of 1.5 m. The air and snow surface temperatures were identical in March but the snow temperature at a depth of 1.5 m. was -15.2° C.—SIPRE. Previously listed in *Arctic Bibliography*, No. 5647.

**Copy seen:** DLC.

**22071. GEPTNER, VLADIMIR GEORGIEVICH, 1901—**. Materialy po mlekopitaushchim ostrova Diksona, prilozhashchel chasti severo-zapadnogo Taymyra i Karskogo moria. (Moskva. Universitet. Gosudarstvennyi zoologicheskii muzei. Sbornik trudov, 1936. t. 3, p. 3-23) **Title tr.:** Contribution to the fauna of Dikson Island, the adjacent part of northwestern Taymyr and Kara Sea.

Contains the result of author's observations on various terrestrial and marine mammals during his expedition on the schooner *Prof. Zhil'kov* in 1928, to Dikson Island and northwestern Taymyr; notes on the biology, geographic distribution, economic importance and hunting and trapping of arctic foxes, polar bears, hares, lemmings, whales, seals, belugas, dolphins and some other mammals.

**Copy seen:** MH-Z.

**22072. GERASIMENKO, N. I.** Redkii sluchai otmorozheniia. (Khirurgii, Feb. 1949. t. 19, no. 2, p. 76-77) **Title tr.:** A rare case of frostbite.

Contains a report of a rare case of third-degree freezing of the scrotum and penis. The case occurred in an accident at the cold pole, the condition having been noticed too late to prevent serious

involvement. The further course of the disease and the therapy are outlined.

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**22073. GERASIMOV, ALEKSEI PAVLOVICH, 1869-1942.** K petrografii Novoi Zemli. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1908. Ser. 2, chast' 46, vyp. 2, p. 247-56) **Title tr.:** On the petrography of Novaya Zemlya.

Contains description of petrographic material collected by V. N. Veber in Mashigina Bay on the western coast of the North Island of Novaya Zemlya during the Expedition of Vice-Admiral S. O. Makarov on the ice-breaker *Ermak*, in 1901, and data on a few rocks from Krestovaya Bay and Gochstetter Island.

**Copy seen:** MH-Z.

**22074. GERASIMOV, I. P.** Sovremennye perezhitki pozднеlednikovykh savenil' vblizi samoi kholodnoi oblasti mira. (Akademiia nauk SSSR. Izvestiia, Serii geograficheskai 1952. no. 5, p. 16-22) **Title tr.:** Contemporary vestiges of late-glacial phenomena in the coldest region of the world.

Contains an account of the essentially late-glacial characteristics of central Yakutia, where, at Oymyakon (63°15' N. 143°08' E.) the cold pole is located. Extensive development of frozen formations, formation of carbonate deposits with lentiform ice inclusions, and continental salt accumulation are characteristic of this area; the vegetation resembles forest-steppe; the soil is dark colored, meadow-chernozem, often saline in various degrees; a recession of the forest flora which is replaced by grasses, takes place. Similar phenomena of the last glacial period are described. Bibliography (8 items).

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**22075. GERASIMOV, S. K.** Patrioty Dal'nego Vostoka. Moskva, Pische-promizdat, 1946. 143 p., illus. **Title tr.:** Patriots of the Far East.

A popular account of the nature of the country; fish resources; the fishing industry and its development; whaling, crab fisheries; pioneer settlements and pioneering work in fisheries. Kamchatka is included in the narrative.

**Copy seen:** DLC.

**22076. GERASIMOVSKIĬ, VASILĬI IVANOVICH.** Chinglusuit—novyi mineral. (Akademiia nauk SSSR. Izvestiia. Serii geologicheskai, 1938. no. 1, p. 153-

57, illus.) *Title tr.*: Chinglusuite—a new mineral.

"From pegmatites of the Lovozero intrusive massif on the Kola Peninsula U.S.S.R."—Geological Society of America. *Bibliography and index of geology*, 1938. v. 6, p. 98. Summary in English.

*Copy seen*: MH.

**22077. GERASIMOVSKIĬ, VASILĬĬ IVANOVICH.** Metaloparite, a new mineral from the Lovozero tundras. (Akademiia nauk SSSR. *Comptes rendus* (Doklady), 1941. nouv. ser., v. 33, no. 1, p. 61–63)

"Describes physical, optical, and chemical characteristics and the occurrence and paragenesis of metaloparite from the Lovozero alkaline massif, Kola Peninsula."—Geological Society of America, *Bibliography and index of geology*, 1941–42. v. 9, p. 99.

*Copy seen*: DLC.

**22078. GERASIMOVSKIĬ, VASILĬĬ IVANOVICH.** Nordite, a new mineral of the Lovozero tundras. (Akademiia nauk SSSR. *Comptes rendus* (Doklady), 1941. nouv. ser., v. 32, no. 7, p. 496–98, illus., tables)

"Describes the crystallographic, physical, optical, and chemical characteristics of nordite from the Lovozero alkaline massif [Khibiny region] Kola Peninsula, and discusses its occurrence and paragenesis."—Geological Society of America, *Bibliography and index of geology*, 1941–42. v. 9, p. 99.

*Copy seen*: DLC.

**22079. GERASIMOVSKIĬ, VASILĬĬ IVANOVICH.** O stroenii luŭavritovogo kompleksa porod Lovozerskogo massiva. (Akademiia nauk SSSR. *Doklady*, 1947. T. 56, p. 953–56, illus.) *Title tr.*: On the structure of the luyavrite complex of the Lovozero massif.

"Discussion of the structure of the luyavrite rocks which were formed during the second and third stages of intrusion of the Lovozero massif, Kola Peninsula."—Geological Society of America, *Bibliography and index of geology*.

*Copy seen*: DLC.

**GERBURT-GEĬBOVICH, A. V.,** see Babkov, V. F., & others. Gruntovedenie i mekhanika gruntov. 1950. No. 20383.

**22080. GERLING, E. K., and I. E. STARIK.** Age of pyroxenite intrusions of Afrikanda and Ozernaya Varaca in the Kola Peninsula. (Akademiia nauk

SSSR. *Comptes rendus* (Doklady), 1942. nouv. ser. v. 35, no. 5, p. 153–54)

"Age determinations by the helium method of shorlomite from pegmatite veins in the pyroxenite intrusions at Afrikanda and Ozernaya Varaca ... indicate that both intrusions were formed simultaneously 340 x 10<sup>6</sup> years ago. They are therefore referred to the Silurian."—Geological Society of America, *Bibliography and index of geology*, 1941–42. v. 9, p. 100. The two localities are at stations Afrikanda and Khobozero on the Kirov railroad in Kola Peninsula.

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**22081. GERLING, E. K., and others.** On the age of Lovozero tundras. (Akademiia nauk SSSR. *Comptes rendus* (Doklady), 1941. nouv. ser., v. 31, no. 2, p. 135–36) *Other authors*: L. V. Komlev, K. N. Sokolova, and V. G. Barkan.

"Radioactive determinations of the mineral loparite show that the Lovozero massif, as well as the Khibiny massif, was formed probably in upper Devonian or lower Carboniferous times"—Geological Society of America, *Bibliography and index of geology*, 1941–42. v. 9, p. 100.

*Copy seen*: DLC.

**22082. GERMAIN, LOUIS, 1878–** Croisière du Pourquoi-Pas? sur les côtes de l'Islande et à l'île Jean Mayen (1912) Chétognathes. (Paris. Muséum National d'Histoire Naturelle. Bulletin, 1913. t. 19, p. 105–108, illus., plate) *Title tr.*: Cruise of the Pourquoi-Pas? to the coasts of Iceland and Jan Mayen, 1912. Chætogonaths.

Discussion of the species, *Sagitta bipunctata*, *S. arctica*, and *S. maxima*, the latter showing exceptionally marked gigantism.

*Copy seen*: DSF-M.

**GERMAN AVIATION MEDICINE, WORLD WAR II, 1950,** see Büttner, K., & H. Kuhn. Climates German theaters of operation. 1950. No. 21006.

Büttner, K. Physical heat balance in man. 1950. No. 21007.

Büttner, K. Protective clothing for heat & cold. 1950. No. 21008.

Grosse-Brockhoff, F. Pathologic physiology & therapy hypothermia. 1950. No. 22257.

Schwiegk, H. Pathogenesis & treatment local cold injury. 1950. No. 25989

Siegmund, H. Pathology anatomy & histology local cold injury. 1950. No. 26191.

**22083. GERSON, N. C.** Correlation of auroras with increased cosmic ray intensities, November 19, 1949. (*Nature*, June 1951. v. 167, no. 4257, p. 894-95, table)

Contains information and data on the time, duration, intensity, etc. of the auroras and the increased cosmic ray activity, observed on this day; also data on the sudden ionospheric disturbances reported on the same day from numerous points all over the world. Special mention is given to auroras observed in the Southern Hemisphere and possible explanations for this phenomenon are advanced. The analysed facts suggest that the cosmic-ray particles involved in these phenomena were not neutral but charged. Bibliography (9 items).

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**22084. GERSON, N. C.** Radio observations of the aurora on November 19, 1949. (*Nature*, May 1951. v. 167, no. 4255, p. 804-805, illus.)

Contains report of a study on a phenomenon observed in north-central and northeastern U. S. A. and adjacent areas of Canada, which may be termed auroral interaction". The phenomenon consists in reception of signals from a northern direction, although the transmitting station may be located to the east, west or even south of the receiver. The peculiarities of these returned signals are described and also the auroral conditions under which the phenomenon takes place, the factors causing modulation of the returned signals, etc. An analysis of the methods applied in the present study, suggestions for improvement, implications, etc., are given. Bibliography (3 items).

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**GERTLER, MENARD M.**, see Grant, R., & others. Atrial fibrillation in hypothermic dogs. 1949. No. 22188.

**22085. \*GERTS, OTTO FEDOROVICH, 1852-1905.** Beitrag zur Kenntniss der Lepidopteren-Fauna des russischen Nordens. (Akademifā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1904. t. 9, no. 3, p. 260-62) **Title tr.:** A contribution to the knowledge of Lepidoptera fauna of northern Russia.

Contains a list of nine butterflies and moths (Lepidoptera) collected by S. A. Buturlin and M. N. Mikhailovskii during

their trip to Kolguyev Island and some other small islands in Severnaya Dvina delta in the summer of 1902.

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**22086. GERTS, OTTO FEDOROVICH, 1852-1905.** Beitrag zur Kenntniss der Lepidopterenfauna der Tschuktschen-Halbinsel. (Akademifā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1903. t. 8, no. 1, p. 14-16) **Title tr.:** A contribution to the knowledge of Lepidoptera fauna of the Chukotsk Peninsula.

Critical notes on nine species of butterflies and moths (Lepidoptera) collected in 1900 by Dr. I. N. Akifiev along the Chukotsk coast of, and on Arakamechen and Mechigmen Islands in Bering Strait.

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**22087. GERTS, OTTO FEDOROVICH, 1852-1905.** Verzeichniss der auf der Mammuth-Expedition gesammelten Lepidopteren. (Akademifā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1903. t. 8, no. 1, p. 61-87) **Title tr.:** A list of Lepidoptera collected during the Mammoth Expedition.

Contains an enumeration of 64 species of butterflies and moths collected by the author near Yakutsk and in the valleys of Aldan, Vitim' and Yana Rivers, northeastern Siberia, during his expedition for the excavation of the mammoth in 1901; includes description of *Agrotis* (*Platagrotis*) *vega* and *A. kolymae* n. spp. and two new varieties.

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**22088. GERTSENSHTEIN, SOLOMON MARKOVICH, 1854-1894.** Ueber einige neue und seltene Fische des Zoologischen Museums der Kaiserlichen Akademie der Wissenschaften. (Akademifā nauk, SSSR. Zoologicheskii muzei. Ezhegodnik, 1896. t. 1, nr. 1-2, p. 1-14) **Title tr.:** On some new and rare fishes in the collections of the Zoological Museum of the Imperial Academy of Sciences.

A posthumous work edited by A. M. Nikol'skii containing Latin diagnoses of two new genera and ten new or rare species of fishes in the collection of the Zoological Museum, including *Nemalycodes grigorjevi* n. sp. from Malyye Karmakuly, Novaya Zemlya.

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**22089. GESSAIN, ROBERT.** Où en est la préhistoire des Eskimo? (*L'anthropologie*, 1951. t. 55, no. 1-2, p. 50-86,

\*See also under German form of author's name (Herz) No. 7034-7036; 22601.

8 illus., table) **Title tr.:** Where lies the prehistory of the Eskimos?

*Contains* historical review of Eskimo archeology; characterization of different archeological cultures (Okvik, Old Bering Sea Culture, Punuk, Birnirk, Thule, Dorset, Alaska, South of Yukon, and Ipiutak); a sketch of prehistoric anthropology of Eskimos and some general conclusions (theories of Birket-Smith, De Laguna, and H. B. Collins). Alaska must be considered as the center of Eskimo culture on North American soil; the cradle of the Eskimos may lie somewhere in the region to the north and east of Lake Baykal. Chronology and migrations of various Eskimo cultures are shown in a table on p. 83, implement types and art motifs are figured comparatively. **Copy seen:** CaMAI.

**22090. GETKIN, F. L.** Kozhnaia plastika po povodu defektov amputatsionnykh kul'tel stopy posle otmorozheniia. (Khirurgiia, 1944, god 14, no. 4, p. 23-27, illus.) **Title tr.:** Plastic skin surgery in defects of amputation-stumps after frostbite.

*Contains* sections on: the necessity and requirements of proper amputation of the foot and the difficulty of obtaining such after frostbite, the usual defects of frostbite stumps and how to deal with them; plastic surgery for improving infected and healthy but defective stumps resulting from cold injury. Abstract by I. Aird in *Bulletin of war medicine*, Apr. 1945, v. 5, no. 8, p. 502-503.

**Copy seen:** DLC.

**22091. GETMANOV, I. A.** Sefanye senokosy v zapolnnykh sovkhovakh Komi ASSR. (Karmovaia baza, Oct. 1952. v. 3, no. 10, p. 23-24) **Title tr.:** Sown meadows in the arctic collective farms of the Komi A.S.S.R.

*Contains* information on the soil of northern Komi; conditions favorable for plant and hay growth; methods of clearing forests and turning them into farm and grass land; kinds of grasses sown (oats); possibilities for perennial grasses.

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**22092. GEYER, EBERHARD.** Kurzer Bericht über die anthropologischen Ergebnisse der Lapplandexpedition 1913-1914. (Anthropologischer Anzeiger, 1931. Bd. 8, p. 284-89, 2 diagrs., 2 plates) **Title tr.:** Brief report of the anthropological results of the expedition to Lapland in 1913-1914.

*Contains* a preliminary report on this expedition, sponsored by Austrian Academy of Sciences (Vienna) and directed by Prof. Georg Kyrle. The itinerary is indicated: from Kiruna by sledge to Vittangi, Lannavaara, Kautokeino and Karasjok, then to Bossekop and by ship to Hammerfest. A total of 231 Lapp individuals of both sexes were investigated, anthropometric measurements and photographs taken. **Copy seen:** InU.

**22093. GEZELIUS, GÖRAN, 1902-** Über Rachitis bei Kindern nomadisierender Lappen. (Acta paediatrica, 1939. v. 26, p. 184-93, illus. table) **Title tr.:** On rickets among children of nomadic Lapps.

Investigation concerns Swedish Lapps. Out of 24 children one-half to one year old, 50 per cent had distinct signs of rickets. In 42 per cent of 69 children, 1-3 years old, skeletal changes due to rickets could be proved. Lack of ultraviolet light during the first year of life, and lack of information on prophylaxis among the Lapps are held responsible for this condition. Bibliography (6 items).

**Copy seen:** DSG.

**22094. GHIGLIONE, ANGELO F.** Problems of icing on roads and airfields. Oct. 23, 1951. 10 l.

Author is Commissioner of Roads for Alaska. "Icing is defined as a mass of surface ice formed during the winter by successive freezing of sheets of water. Icing is common in the permafrost region and occurs as ground icing of the effluent seepage type or as river or stream icing. Natural icing is caused by a rainy season prior to freeze-up, prolonged freezing weather with little snow, or by a severe winter. Icing may also occur as a result of construction activities. Methods of controlling icing on roads and landing strips in Alaska involve careful selection of location for the construction, avoiding permafrost, northern exposures and wet side hills or slopes. Through-cuts, grades and curvatures are to be avoided. Bridge locations are chosen in places where the river is narrow. High level bridges are planned to clear floods and the steel bents are designed without bracing to avoid hanging ice. Roads and airfields in Alaska are maintained in winter by fencing the seepage off the road with wire netting on posts. Interception ditches are used to collect and channel surface seepage flow. River icing can

be prevented by heating the water or by the use of blasting charges."—SIPRE.

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**22095. GHIGLIONE, ANGELO F.** Radio units modernize "Operation Snowball". (Pacific builder and engineer, Sept. 1952. v. 58, no. 9, p. 62-63, incl. illus.)

"Low frequency A. M. type mobile radio units are used to augment heavy duty snow removal equipment. The installation is mounted in supervisors' vehicles. Equipment used in Alaska to combat the varying snow conditions includes special-built rotary and V-blade plows, dump trucks equipped with underbody blades, and various graders with snow wings. Special cold-weather lubricants are used on all equipment. Roadside deposits of naturally dry material that can be loaded and spread are used for sanding."—SIPRE.

**Copy seen:** DLC.

**GJÆVER, JOHN SCHELDROP,** 1901- , see *Polarårbooken*. Norsk Polarinstitutt. 1951. No. 25177.

**22096. GIAJA, JEAN, and L. MARKOVIĆ.** L'adaptation au froid et la résistance à la dépression atmosphérique. (Académie des Sciences, Paris. Comptes rendus, juil. 26, 1948. t. 227, p. 296-97) **Title tr.:** Adaptation to cold and resistance to lowering of atmospheric pressure.

Report on different reactions to lowering of pressure by rats adapted to cold and to heat, the former group sustaining a greater drop in pressure.

**Copy seen:** DLC.

**22097. GIAJA, JEAN, and R. ANDJUS.** Le fonctionnement du coeur des mammifères refroidis. (Académie des Sciences, Paris. Comptes rendus, avr. 3, 1950. t. 230, p. 1366-67) **Title tr.:** The heat function of cooled mammals.

Contains a report on experiments with rats exposed to a temperature of 15° C. and hypoxia: their hearts continued to beat for hours after the destruction of the medulla oblongata, if the lungs were supplied with oxygen. Bibliographical footnotes.

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**22098. GIAJA, JEAN.** Influence de la fatigue musculaire sur la puissance thermogénétique et la résistance au froid. (Annales de physiologie et de physicochimie biologique, 1932. v. 8, p. 535-45, tables) **Title tr.:** The influence of fa-

tigue on the thermogenetic effectiveness and on the resistance to cold.

Contains account of experiments with rats exposed to a temperature of 0° C. Rats tired by forced marching, proved less resistant to cold and their thermogenetic capacity was much reduced. Tiring rats at different temperatures, one observes that the marching rats become cold, while resting rats maintain their normal temperature. The heat of exercise cannot in this case compensate for the heat of chemical thermoregulation, which is strongly diminished by muscular fatigue.

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**22099. GIBSON, EDWIN C.** Summer arctic operations. (Military review, Oct. 1952. v. 23, no. 7, p. 50-62, incl. illus., maps)

"The Army Arctic Indoctrination School conducted summer arctic operations in the Big Delta region (Alaska). The polar mountains, highlands, and lowlands within a 50-mi. radius of Big Delta provided terrain over which supplies were moved. Glacier training conducted on the Black Rapids Glacier (150 sq. mi.) consisted of training on the basic principles of military mountaineering and specialized instruction in route selection and movement over glaciers. The experiences gained indicated resemblance of summer arctic operations to jungle operations; the importance of rivers in military transportation; the need for detailed reconnaissance and flexibility of logistics."—SIPRE.

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**GIBSON, WILLIAM,** see Hourde, R. N. Sophisticated Eskimo. 1952. No. 22719.

**22100. GIDDINGS, JAMES LOUIS.** 1909- . Ancient Bering Strait and population spread. (In: Alaskan Science Conference . . . 1950. Selected papers, 1952. p. 85-102)

Contains an analysis of several broad anthropological problems, based on recent findings at Cape Denbigh (64°30' N. 162° W.) on the west Alaskan coast: early man in Alaska, migrations, the Eskimos, spread of population, etc., with conclusions: The Denbigh flint complex was probably laid down by as much as 6000 years ago; the "Eskimo physical type", found in the central and eastern Arctic, shows many differences from most of the western Eskimos; the theory of "the mechanics of population spread" permits the conclusion that Bering

Strait has never been subject to wide-scale migrations of peoples from Asia to America, but has served as a narrow conduit through which diffusion has freely vibrated in both directions at all times. *Copy seen:* DAI; DLC.

**22101. GIDDINGS, JAMES LOUIS, 1909-** . The Arctic Woodland culture of the Kobuk River. Philadelphia, University of Pennsylvania, 1952. x, 144 p. 43 text illus., 46 plates, maps. (University of Pennsylvania, Museum monographs)

*Contains a study of "Eskimo-speaking dwellers in a heavily forested area where an Athapascan material culture has proved more practical than that of the coastal Eskimo . . . [and of] a high degree of culture entity within the region through at least 700 years . . . of neither Eskimo nor Athapascan patterns but of a third, possibly older combination of cultural elements."* The study is based on archaeological excavations and observations of present-day life made by the author and others in 1940/41 and 1947 along the Kobuk River in northwest Alaska just north of the Arctic Circle, 156°-164° W. Five major sites, chronologically extending from 970 A. D. to the present, were explored, namely, Ambler Island, Intermediate Kotzebue, Old Kotzebue, Ekseavik, and Ahteut; nearly eighty house pits were excavated, several thousand artifacts, representing four major phases of culture were found; record was taken (about 200,000 words in shorthand) of ethnographic accounts and stories from the oldest people of the region, and tree-ring research was carried out which enabled precise dating of the Kobuk River sites. The technique of tree-ring dating is described in detail (p. 105-111) showing that a quite precise dating of archaeological sites is possible wherever conifers grow under extreme temperature stress in the North. The inhabitants of the Kobuk River region are Eskimos having no connections with the Indians. Detailed description and analysis is given of following aspects of their life (for each of the five localities separately): villages and houses, fishing, land-hunting, sea-hunting, travel and transportation, tools, and manufactures, skin working and tailoring, food preparation, personal adornment, communal activity, clay working. The five sites are discussed comparatively then considered compositely as representing Arctic Woodland Culture; this culture's complex of traits

is placed into its circumpolar and circum-boreal perspective, with conclusion that a pattern of culture exists within the forest edge that does not conform to wholly Eskimo or Athapascan patterns, that it is a phenomenon of the environment, a predictable combination of sea-river-forest hunting, and further research should disclose it in other areas where the environment is similar.

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**22102. GIDDINGS, JAMES LOUIS, 1909-** . The Denbigh flint complex. (American antiquity, Jan. 1951. v. 16, no. 3, p. 193-203, illus.)

*Contains an account of flint artifacts isolated during the summers 1948 and 1949 at a site called Iyatayet, Cape Denbigh, north Bering Sea coast of Alaska. Following a brief note on the discovery and stratigraphy of the excavated area, a description and appraisal of the flint artifacts is given. The artifacts include: burins, knives, scrapers, various kinds of blades, points, etc. These artifacts have little in common with Eskimo culture; they represent an older culture and show distinctive Old World characteristics, thus supporting concretely the theories of a Bering Strait gateway to America in remote times. Bibliography (20 items).*

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**22103. GIDDINGS, JAMES LOUIS, 1909-** . Driftwood and problems of arctic sea currents. (American Philosophical Society. Proceedings, Apr. 1952. v. 96, no. 2, p. 129-42, illus. diagrs., maps)

*Contains a discussion of driftwood and of tracing it by means of annual tree-ring records, as a contribution towards elucidating some problems of sea currents. Methods of dendochronology and tree-ring indexes are outlined, the origin of arctic driftwood indicated; and some data from dated driftwood tabulated. Samples from the area of Point Barrow appear to originate from the Yukon and Mackenzie Rivers, suggesting currents from their mouths toward this area. Data thus obtained from driftwood studies confirm those obtained earlier on currents by other methods. Suggestions are made on the possibilities of driftwood studies, especially if the methods become more refined. Bibliography (30 items).* *Copy seen:* CaMAJ

**22104. GIDDINGS, JAMES LOUIS, 1909-** . The forest edge at Norton

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Bay, Alaska. (Tree-ring bulletin, July 1951. v. 18, no. 1, p. 2-6)

Contains a report on a tree-ring study made in July 1950 incidentally to the author's archeological reconnaissance as part of the Bering Strait Expedition. The purpose was to obtain a sample of the forest for crossdating and climatic reference to other timberline collections in the arctic area. These forests on the West Alaskan coast ( $64^{\circ}40' \text{ N. } 161^{\circ} 30' \text{ W.}$ ) "represent the westernmost coniferous trees in America, and thus are of interest as an extreme timberline reaching toward arctic cold." An analysis of the increment cores suggests that the forests examined are controlled in their growth by the stress of temperature of the growing season. They offer a good object for the study of climatic change and forest stability over several centuries.

**Copy seen:** DLC.

**22105. GIDDINGS, JAMES LOUIS, 1909-** . Observations on the "Eskimo type" of kinship and social structure. (Alaska. University. Anthropological papers, 1952. v. 1, no. 1, p. 5-10)

Contains account of the kinship systems among the Nunivagamiut (Nunivak Island), Angmagssalik (East Greenland) and other Eskimo groups, based on the works of Lantis, Holm, Murdock and on the author's own observations among West Alaskan Eskimo groups on Norton Bay, especially those speaking Unalik and Malemiut dialects. There is no common pattern among all the Eskimo groups, e. g. for "cousin terminology", and an "Eskimo type" cannot be constructed (the cousin terminology of Nunivagamiut, for instance, is of Iroquois type). The author concludes that cultural unity between Eskimo-speaking groups cannot be assumed; the term "Eskimo" is primarily the name of a linguistic group and a customary division of Eskimos into eastern and western groups is hardly more satisfactory. Bibliography (8 items).

**Copy seen:** DLC.

**22106. GIDDINGS, JAMES LOUIS, 1909-** . Traces of early man on the north Bering Sea coast. (Pennsylvania. University. University Museum. Bulletin, June 1950. v. 14, no. 4, p. 3-13, 5 plates)

Report on two seasons of excavations (1948-49) at Cape Denbigh, sponsored by the Arctic Institute of North America in cooperation with U. S. Office of Naval

Research: review of earlier work in Alaskan archeology, description of the sites (Nukleet and Iyatayet) excavated, remarks on remains found of houses, tools, pottery, animal bones, carvings, etc. At the lowest level, microlithic remnants, apparently the earliest traces of man yet located on the Alaskan coast, were uncovered. The relation of the latter finds at Iyatayet to similar finds in America (Folsom points and Yuma blades in southwestern U. S.) and the Old World (upper Paleolithic burins, etc.) are discussed. **Copy seen:** CaAI.

**22107. GILBERG, AAGE, 1909-** . Médecin des Esquimaux; traduction française de Jean Poumarat. Paris, Éditions de la Paix, 1951. 252 p., map. **Title tr.:** Eskimo doctor.

Translation of the author's *Verdens nordligste læge*, 1943, also published in English with title as above. See *Arctic Bibliography*, No. 5729-30.

**GILBERT, WILLIAM H.,** see U. S. Congress. House. Committee on Lands. Compilation Indians of U. S. & Alaska. 1950. No. 26915.

**22108. GILEVA, Z. M., and B. N. MELENT'EV.** Arsenic in the apatites of the Khibiny tundras. (Akademika nauk SSSR. Comptes rendus (Doklady), 1939. nouv. ser., v. 25, no. 2, p. 118-19, tables)

Arsenic content in the apatites determined. Its amount is insufficient to prevent their use in the technological processes employed in the food industry.

**Copy seen:** DLC.

**22109. GILL, JAMES EDWARD, 1901-** , and R. L'ESPERANCE. Diabase dykes in the Canadian Shield. (Royal Society of Canada. Transactions, June 1952. Ser. 3, v. 46, sect. 4, p. 25-36, illus., sketch map)

Contains a review of published literature on the distribution, composition, age and structural relations, and manner of intrusion of the quartz, olivine and ordinary diabase dikes (and sills) which are mostly the latest group of intrusives in each area and classed as Keweenaw in age. Throughout the Canadian Shield, including northern Quebec, Ontario and Manitoba and the Northwest Territories, the dikes trend northeast, northwest and north, which probably reflects the predominance of these trends in the basic structures. Bibliography (13 items).

**Copy seen:** DGS.

**22110. GILL, JAMES EDWARD, 1901-**

. Early history of the Canadian Precambrian shield. (Geological Association of Canada. Proceedings, 1952. v. 5, p. 57-68, 2 sketch maps)

*Contains* discussion of the geologic history of the Canadian Shield in Precambrian time, with conclusion that "many orogenic belts of different ages occur, not less than nine, and probably twenty or more, accompanied by as many igneous intrusive suites; that, except in the earliest stages in the building of the continent, sediments heretofore classed as Late Precambrian formed within the continental mass while Archaean-type sediments were being deposited in marginal geosynclines; that there was no 'Post-Archaean interval' and finally, that correlation of unconformities in widely-separated parts of the Shield is a misleading practice and generally incorrect." Bibliography (18 items). **Copy seen:** DGS.

**22111. GILL, JAMES EDWARD, 1901-**

. Mountain building in the Canadian Pre-Cambrian Shield. (International Geological Congress, 18th, Great Britain, 1948. Report, 1952. Pt. 13, p. 97-104, maps)

"A brief review of the broader features of the rocks and structures in the Canadian Shield and interpretations relating to mountain building."

**Copy seen:** DGS.

**22112. GILL, JAMES EDWARD, 1901-**

. Original crust in the Canadian Shield area. (Geological Society of America. Bulletin, Dec. 1951. v. 62, p. 1442)

Abstract of paper submitted at the Society's meeting, Detroit, Nov. 8-11, 1951.

**Copy seen:** DGS.

**GILLANDERS, E. B.,** *see* Buffam, B. S. W., & E. B. Gillanders. Explor. & development Canadian uranium. 1951. No. 21009.

**GILLANDERS, E. B.,** *see also* Buffam, B. S. W., & E. B. Gillanders. Explor. & development Canadian uranium (Precambrian). 1951. No. 21010.

**GILLANDERS, E. B.,** *see also* Buffam, B. S. W., & E. B. Gillanders. Uranium deposits Canada. 1951. No. 21011.

**22113. GILLESPIE, A. A.** Yukon anticipates busy year. (Western miner, May 1950. v. 23, no. 5, p. 54)

Notes on activities of various gold mining companies in preparation for 1950 season. **Copy seen:** DGS.

**22114. GILSON, SAUL B.** Studies on adaptation to cold air in the rat. (American journal of physiology, Apr. 1950. v. 161, p. 87-91)

*Contains* a study on adult animals exposed to a temperature of 4° to 6° C. After a few hours or days, edema and erythema of the hairless areas of the feet appeared, which disappeared with protracted exposure. A progressive erythema and gangrene of the tail tip and ear edges developed. Systolic hypertension appeared after several weeks of exposure and increase in time. Bibliography (13 items). **Copy seen:** DLC.

**22115. GILTAY, LOUIS.** New records of Pycnogonida from the Canadian Atlantic Coast. (Canada. Fisheries Research Board. Journal, Mar. 1942. v. 5, p. 459-60)

One of four species here recorded, *Nymphon serratum* G.O. Sars, was taken at 75 meters off gravel bottom in the mouth of James Bay.

**Copy seen:** DLC; DSI-M.

**GINSBURG, CARL,** *see* Andreev, A. I. Russ. discoveries in Pacific & N. America. 1952. No. 20215.

**GINZBURG, I. V.,** *see* Chumakov, A. A. & others. Vezuvian iz zap. Kelv. 1948. No. 21220.

**GINZBURG, S. KH.,** *see* Adamova, A. A. & others. Issled. konservov, khranivshikhsia v Arktike. 1950. No. 20038.

**22116. GIRGOLAV, S. S.** Klinika i lechenie otmorozheniĭ. (Vestnik khirurgii, July-Aug. 1940. t. 60, kn. 1-2, p. 86) **Title tr.:** Clinical aspects and treatment of frostbite.

*Contains* an abstract of a paper delivered at the Leningrad Conference of Workers of Evacuation Hospitals and Specialist Sections of Hospitals and Institutes (May 25-27, 1940). Includes information on the condition of frostbite cases seen in the evacuation hospitals; degrees of frostbite (4); the problem of gangrene and mummification. **Copy seen:** DLC.

**22117. GIRGOLAV, S. S.** Otmorozheniia. (Novyi khirurgicheskiĭ arkhiv, 1939. t. 43, no. 1-2, (kn. 170-71), p. 148-58) **Title tr.:** Frostbite.

*Contains* text of an address delivered

before the 24th All-Soviet assembly of surgeons. Includes information on: causes of frost injuries; some mass occurrences of frostbite in war and peace; pathogenesis and pathology of frostbite; clinical course and degrees of frostbite; comparisons with heat damage and burns; mitigating and complicating factors in frostbite; trench-foot; first-aid in frostbite. **Copy seen:** DLC.

**GIRGOLAV, S. S.,** see also Ar'ev, T. ĪĀ., & others. Otmorozheniia. 1951. No. 20301.

**GIROUD,** see Ransford, G., & Giroud. Vocabulary of frost, snow & ice. 1950-52. No. 25359.

**22118. GISLÉN, TORSTEN RICHARD EMANUEL, 1893-** . Notes on the remarkable discovery of two echinoderms new to the Swedish fauna. (Arkiv för zoologi, 1922-24, pub. 1924. Bd. 15, no. 23, p. 1-30, illus., text map)

Contains a report of the discovery of two marine echinoderms, *Poliometra proliza* and *Hathrometra tenella* var. *sarsii*, in southern Swedish waters, and a revision of these species and *H. tenella* var. *tenella*, with synonymy, critical notes and lists of Scandinavian localities and extra-Scandinavian distribution (East and West Greenland, Baffin Island, and coastal waters of the northern European Asiatic Russia).

**Copy seen:** DSI-M; MH-Z.

**GITZ JOHANSEN, AAGE, 1897-** , see Drastup, E. Grønlandsfaerd. 1944. No. 21541.

**GITZ JOHANSEN, AAGE, 1897-** , see also Salomonsen, F. Grønlands fugle. 1950-51. No. 25799.

**22119. GJAEREVOLL, OLAV.** The snow-bed vegetation in the surroundings of Lake Torneträsk, Swedish Lapland. (Svensk botanisk tidskrift, 1950. Bd. 44, häfte 2, p. 387-440)

Contains the results of the author's study of snow-bed vegetation at Lake Torneträsk, Swedish Lapland, in 1944 and 1947, including a discussion on the concept of snow-bed, habitat factors and snow-bed plant communities (poor and rich in calciphiles) on various soils, with numerous lists of plants and tables; bibliography (15 items).

**Copy seen:** DA; MH-A.

**22120. GJESSING, GUTORM, 1906-** . Korsformete spenner i Nord-Norges fol-

kevandringstid. Tromsø, K. Karlsens tryk., 1938. 28 p., illus. (Tromsø, Norway. Museum. Aarshefter, 1934. Bd. 57, nr. 1) **Title tr.:** Cruciform brooches of the migration period in northern Norway.

A study of the cruciform brooches as the most characteristic remains of the migration period in northern Norway, based mostly on specimens of these ornaments in the archeological collection of the Tromsø Museum and literature data; includes materials from various localities in Nordland (Bø, Gjesfjord, Steigen) and burial grounds in Voldstad, Trondenes, Tromsø.

**Copy seen:** DSI-M; MH-Z.

**22121. GJESSING, GUTORM, 1906-** . Norske ryggknappspenner fra Vendeltiden. (Norske videnskabers selskab, Trondhjem. Skrifter, 1929, nr. 8, p. 1-17) **Title tr.:** Norwegian back clasps from the "Vendel period".

Contains descriptions and illustrations of 32 back clasps found in the burial places in various localities of Norway, including one in Tromsø and one in Nordland; bibliography (46 items).

**Copy seen:** DLC; MH.

**22122. GJESSING, GUTORM, 1906-** . Norwegian contributions to Lapp ethnography. (Royal Anthropological Institute of Great Britain and Ireland. Journal, 1947. v. 77, p. 47-60, map)

Contains a review of the achievements of Norwegian scholars in the field of Lapp studies: sociology; dwellings; hunting; fishing and reindeer-breeding; religion; crafts, industrial arts and dress; regional studies. Includes remarks on future researches, on Norwegian contributions to Lapp linguistics and folklore as extensive, and on Tromsø Museum as predominant in the field of ethnography. Two-thirds of the Fenno-Scandian Lapps (22,300 in 1930) are noted to inhabit Norwegian territory. Bibliography (p. 55-60).

**Copy seen:** DLC; InU.

**22123. GJESSING, GUTORM, 1906-** . Risvik-kniven, en nord-norsk steinskulptur. (Norske videnskabers selskab, Trondhjem. Skrifter, 1934, nr. 2, p. 1-18) **Title tr.:** Knives from Risvik, north Norwegian stone sculpture.

Contains a description of stone knives adorned by carved heads of reindeer, found near Risvik, Meløy parish, Nordland, northern Norway; and comparison with similar specimens of prehistoric art

from western Siberia (Tomsk) and Finland belonging to the archeological collection of Tromsø Museum; bibliography (46 items).

**Copy seen:** DLC; MH.

**22124. GJESSING, GUTORM, 1906-** . To hamrer til samiske runehammer. (Studia Septentrionalia, 1945. v. 2, p. 99-115, 8 illus.) **Title tr.:** Two hammers for Lapp conjuring drums.

Two hammers recently found in Rendal and Nesna are shown to be of artistically Scandinavian origin. **Copy seen:** InU.

**22125. GJESSING, GUTORM, 1906-** . Der Verkehr zwischen den Kjelmöyer Lappen und den Norwegern. (Tromsø, Norway. Museum. Aarshefter, 1927, pub. 1929. Bd. 50, nr. 4, p. 1-18, illus.) **Title tr.:** Interchange between the Kjelmöy Lapps and Norwegians.

Contains a study of prehistoric cultural intercourse between Norwegians and Lapps, based mostly on archeological finds in Kjelmöy in the Sydvaranger region, such as fish angles, spear heads, harpoons, etc., dating from the stone and especially the iron age.

**Copy seen:** DSI-M; MH-Z.

**22126. GJULLIN, CLAUDE MELVIN, 1903-** , and others. Control of black fly larvae in Alaskan streams by aerial applications of DDT. (Journal of economic entomology, Apr. 1949. v. 42, p. 392) **Other authors:** D. A. Sleeper and C. N. Husman.

Brief report on work done in 1948, under funds allotted by the U. S. Dept. of National Defense to the Bureau of Entomology and Plant Quarantine, to determine the distances downstream DDT-oil sprays would eliminate black fly larvae.

**Copy seen:** DLC.

**22127. GJULLIN, CLAUDE MELVIN, 1903-** , and others. The effect of some insecticides on black fly larvae in Alaskan streams. (Journal of economic entomology, Feb. 1949. v. 42, p. 100-105) **Other authors:** O. B. Cope, B. F. Quisenberry and F. R. DuChanois.

Report on work conducted in 1947, under funds from the U. S. Depts. of the Army and Navy, by the Bureau of Entomology and Plant Quarantine. "DDT, chlordan, chlorinated camphene, and gamma benzene hexachloride were tested as emulsions and acetone suspensions in troughs and stream sections in Alaska . . . These chemicals were also

tested against caddis fly larvae . . . and against rainbow trout." Bibliography (5 items). **Copy seen:** DLC.

**22128. GJULLIN, CLAUDE MELVIN, 1903-** , and others. Tests with DDT to control black fly larvae in Alaskan streams. (Journal of economic entomology, Oct. 1950. v. 43, p. 696-97) **Other authors:** H. F. Cross and K. H. Applewhite.

Continuing work begun in 1947-48, "sprays containing 20 per cent DDT and other ingredients were applied by airplane to the Naknek River and tributaries," at a rate of 0.1 pound of DDT per acre. Considerable seasonal difference in the effectiveness of the same treatment indicated that overwintering black fly larvae are less susceptible to DDT than new-generation larvae. "Work was conducted under funds allotted by the Dept. of Defense to the Bureau of Entomology and Plant Quarantine."

**Copy seen:** DLC.

**22129. GLACIOLOGICAL CONFERENCE, 1st. New York, Jan. 18-19, 1949.** Report, New York, 1950. 27 l. mimeographed.

Informal record of conference held under auspices of the Arctic Institute of North America and the American Geographical Society. Project Snow Cornice, the Juneau Ice-field Research Project and other investigations and problems were discussed and the discussion is briefly reported here. This report is summarized in *Polar record*, Jan. 1951. v. 6, no. 41, p. 118-19.

**Copy seen:** CaMAL.

**22130. GLACIOLOGICAL CONFERENCE, 2d. New York, Jan. 1951.** Proceedings. New York, 1951. 46 p.

"A transcript of the papers presented and the discussion recorded at the second Glaciological Conference is given. Topics discussed include: the results of a glaciological study of the icecap in Baffin Island, the relationship between glacial research and permafrost studies, the deformation of Bay and Shelf Ice in the Bay of Whales, Antarctica, a discussion of Ice Islands, the radiocarbon method of reconstructing glacial history, a report on the progress of *Project Snow Cornice*, the program of the Research Committee on Glaciers, the purpose of the Snow, Ice, and Permafrost Research Establishment, and an evaluation of the Arctic from a military viewpoint."—SIPRE.

**Copy seen:** CaMAL.

**GLADKOV, N. A.**, *see* Dement'ev, G. P., & others. *Ptifa Sovetskogo Soiuza*, t. 1. 1951. No. 21415.

**GLADKOV, N. A.**, *see also* Dement'ev, G. P. *Rukovodstvo k opred. ptifs SSSR*. 1948. No. 21416.

**22131. GLASER, E. M.** Acclimatization to heat and cold. (*Journal of physiology*, London, Dec. 31, 1949. v. 110, p. 330-37, fig., 4 tables)

Contains a study on six young, male volunteers who spent alternately 72-hour periods in hot and cold ( $-1^{\circ}$  to  $+4^{\circ}$  C.) rooms. During the three days of exposure to cold, an increase of rectal and skin temperature, and of subjective comfort were observed; this was taken as signs of acclimatization to cold; exercise or severe shivering during cooling may inhibit cold acclimatization but frequent changes of temperature may be beneficial for adaptation to climatic extremes. Superficial blood flow, total blood volume and blood distribution are also discussed. Bibliography (21 items).

*Copy seen:* DLC.

**22132. GLASER, E. M.** Immersion and survival in cold water. (*Nature*, London, Dec. 23, 1950. v. 166, no. 4234, p. 1068)

Contains an article dealing with discrepancies in survival time of persons immersed in cold water. It is concluded that a person swimming hard in water near freezing temperature produces as much heat as he loses, and should not die of cold, as long as he swims; also stiffness of muscles due to cold, can be prevented by brisk swimming. Fit people who fall into cold water are advised to swim or to struggle as long as possible. Bibliography (11 items). Summarized in *Polar record*, July 1952. v. 6, no. 44, p. 535.

*Copy seen:* DLC.

**GLASER, FRANK S.**, *see* Hosley, N. W., & F. S. Glaser. Triplet Alaskan moose calves. 1952. No. 22718.

**GLAZUNOV, I. V.**, *see* Kasparova, S. A., & T. A. Glazunov. Biochemical evaluation of grasses. 1941. No. 23157.

**22133. GLEN, ALEXANDER RICHARD**, 1912-. The Oxford University Arctic Expedition 1935-6. (Oxford University Exploration Club. Annual report, 1936-37, p. 12-35, plates)

Brief report by the leader on the course and work of this nine-man expedition

during its 14-month sojourn on Northeast Land: camp arrangements, glaciological, meteorological, surveying, geological work done. Data on costs, etc. are appended. For full narrative and scientific results of this expedition, *see Arctic Bibliography*, No. 5813, and index.

*Copy seen:* CaMAI.

**22134. GLICKMAN, NATHANIEL**, 1911-, and others. The tolerance of man to cold as affected by dietary modifications: high versus low intake of certain water-soluble vitamins. (*American journal of physiology*, July 1946. v. 146, p. 538-58, tables) Other authors: R. W. Keeton, H. M. Mitchell, and M. K. Fahnestock.

"The results of this experiment indicate clearly that the ability of men to withstand the damaging effects of repeated exposures to cooling environments and to maintain normal neuro-muscular and mental efficiency cannot be appreciably enhanced by giving excessive doses of ascorbic acid, thiamine, riboflavin, and nicotinic acid above the amounts required for adequate nutrition." Author notes that dosage requirements in some cases are less than the recommended allowances of the Food and Nutrition Board of the National Research Council. Bibliography (41 items).

*Copy seen:* DLC.

**GLICKMAN, NATHANIEL**, 1911-, *see also* Keeton, R. W., & others. Tolerance of man to cold: proteins. 1946. No. 23178.

**GLICKMAN, NATHANIEL**, 1911-, *see also* Mitchell, H. H., & others. Tolerance of man to cold: carbohydrate. 1946. No. 24389.

**22135. GLOBA, ANDREĬ PAVLOVICH**, 1888-. *Pesni narodov SSSR*. Moskva, Ogiz, 1947. 814 p. graphic illus., music notes. *Title tr.*: Songs of the peoples of the U.S.S.R.

A popular anthology in Russian, which includes five Yakut songs (p. 687-94).

*Copy seen:* DLC; InU.

**22136. GLOBUS.** Brautwerbung bei den Lappen. (Globus, Hildburghausen, 1863. Bd. 4, p. 375-77) *Title tr.*: Wooing among the Lapps.

Contains description of customs as they were about 1830, based on information from the Swedish priests Peter Laestadius, Fjellström, and Nils Stock-

flesh; taking off the girl's mitten and presenting her with a shawl, etc.

*Copy seen:* DLC.

**22137. GLOBUS.** Das Gebiet der Jakuten in Sibirien. (Globus, Hildburghausen, 1866. Bd. 10, p. 256) *Title tr.:* The region of Yakuts in Siberia.

*Contains* population statistics from census of 1864: 200,149 Yakuts, 10,690 Tungus, 1521 Yukaghirs, etc.; number of houses, cattle and amount of trade is given also.

*Copy seen:* DLC.

**22138. GLOBUS.** In Sibirien bei den Jakuten und Tungusen. (Globus, Hildburghausen, 1862. Bd. 1, p. 161-67, 7 illus.) *Title tr.:* In Siberia among the Yakuts and Tungus.

*Contains* notes on the reindeer or nomadic Tungus, their tents, mode of life, and beliefs (shamans, divination); the climate of the land of the Yakuts, their religion, physical and psychological characteristics, animal husbandry, hunting of the wild sheep called Argali (*Ovis Ammon*).

*Copy seen:* DLC.

**22139. GLOBUS.** Ein Jahr zu Beresof in Westsibirien. (Globus, Hildburghausen, 1863. Bd. 4, p. 214-17) *Title tr.:* A year in Berezhovo in Western Siberia.

*Contains* impressions of a political deportée, a Polish woman, Felinska, in this city on the Ob' River (63°55' N. 65°05' E.), the climate, physical characteristics of Samoyeds, the ornaments of their women; more details are given on the Ostyaks: their filthy huts, heathen religious practices, bear hunting, clothing and ornaments, tattooing, marriage customs, etc.

*Copy seen:* DLC.

**22140. GLOVER, R.** Cumberland House. (Beaver, Dec. 1951. p. 4-7, illus., map)

*Historical* notes on the extension of the Hudson's Bay Co. fur-trading operations into the interior, signalized by the founding in 1774 of its first inland trading post Cumberland House on the Saskatchewan River. Includes ground plan and illustration of the post in 1812, 1875 and 1951.

*Copy seen:* CaMAI.

**GLUSHNEV, M. P.,** *see* Sokolov, S. E., & M. P. Glushnev. Organ. past'by olenf. 1952. No. 26315.

**GLUSHNEV, M. P.,** *see* Sokolov, S. E., & M. P. Glushnev. Vyvodka i ispytanie rabochikh kachestv. 1952. No. 26316.

**22141. GODFREY, W. EARLE.** Birds of Lake Mistassini and Lake Alabanel, Quebec. Ottawa, 1949. 43 p. illus., table, map. (Canada, National Museum, Bulletin no. 114. Biological series, no. 38)

*Contains* sections on the location of the lakes (50°30'-51°20' N., 72°45'-74°25' W.) their drainage, relief and geology, climate, etc.; habitats and general character of the local bird fauna. This is followed by a systematic list (p. 13-41) of birds observed by the author and earlier investigators in the area, with dates of observations, age, sex, nests, etc. Many arctic forms are included. Bibliography (38 items).

*Copy seen:* DSI.

**22142. GODFREY, W. EARLE.** Birds of southern Yukon Territory. (Canada, National Museum. Bulletin 123, its Annual report for 1949-50, pub. 1951, p. 88-119, illus. map)

*Contains* results of two months' fieldwork in summer 1949, in three collecting localities at Klunene Lake, Kathleen River and Carcross. The vegetation pattern of each is described and a systematic list of about 130 birds presented, with details of plumage, habit number of individuals observed with dates and location. Some important unpublished information including a few specimens collected from the area by others, is incorporated in this record.

*Copy seen:* DLC.

**GODFREY, W. EARLE,** *see also* Cameron, A. W., & W. A. Morris. Mammals Lake Mistassini & Alabanel. 1951. No. 21087.

**22143. GODMAN, R. M.** A classification of the climax forests of southeastern Alaska. (Journal of forestry, June 1952. v. 50, p. 435-38)

*Contains* a scheme for classifying the pulp timber areas in the Tongass National Forest, where the climax forests are defective, hemlock is the predominant species, and where the best stands occur at lower elevations on moderate slopes, with a southern exposure. Bibliography (11 items).

*Copy seen:* DGS.

**GODMAN, R. M.,** *see also* Taylor, R. F. & R. M. Godman. Increment & mortality SE. Alaska 2d stands. 1950. No. 26637.

**22144. GODSELL, PHILIP HENRY.** 1889-. Is there time to save the Eskimo? (Natural history, Feb. 1952. v. 61, no. 2, p. 56-62, illus.)

Contains an account of the present economic plight of the Eskimos, in particular those of the Mackenzie delta and Coronation Gulf regions. The apparent increase in crime and loss of initiative among them is noted. The causes of their deterioration are outlined: destruction of animal resources and merciless exploitation by traders and whalers, especially around the turn of the century; the effects of "civilization and disease; decimation of the caribou; shift to trapping arctic foxes. Suggestions for improvement by some reorganization of trade, supervision of caribou hunting, etc., are made. **Copy seen:** DLC.

**22145. GODSELL, PHILIP HENRY, 1889-** . The nearing North. (Forest and outdoors, 1943. v. 39, p. 141-42, illus.) *continued as:* The nearing north. The boom invoked by the Alaska road (*ibid.* p. 163-64, illus.) *and as:* New empire of the North (*ibid.*, p. 215-16, map, illus.)

This series of three articles deals with opportunities which the North will present after World War II. In the first article, author outlines the development which followed World War I; in the second, he indicates the importance of roads in opening new areas to development in general, and briefly sketches the benefits of the Alaska Road (started in Feb. 1942) to the country. In the third article, an outline is given of the road from Peace River to Fort Providence and Fort Norman and the winter highway from Grimshaw in northern Alberta to Hay River. These new highways, as well as the revitalized branch of the Northern Alberta Railways, running from Edmonton to Dawson Creek, will in the author's opinion, open the Mackenzie-Athabaska region and help develop its natural resources.

**Copy seen:** DA.

**22146. GOEBEL, GERMAN FEDOROVICH.** Beiträge zur Kenntnis der Ornitho-archangel'schen Gouvernements. (Journal für Ornithologie, 1873. Bd. 21, no. 124, p. 406-422) **Title tr.:** Contributions to knowledge of the bird fauna of Arkhangel'sk province.

Contains a diary kept by the author during his stay in Arkhangel'sk in 1864-65, with notes on birds observed, their nests and eggs, and a systematic list of 150 species native to that province.

**Copy seen:** MH-Z.

**22147. GOEDECKE, ERICH.** Über jahreszeitliche Schwankungen des hydrographischen Zustandes im südlichen Barentsmeer und im Gebiet Lofoten - Bäreninsel - Spitzbergen. (International Council for the Study of the Sea. Rapports et procès verbaux, 1939. v. 109, pt. 3, p. 93-97) **Title tr.:** Annual variations of hydrographic components in the southern Barents Sea and the region of Lofoten - Bjørnøya - Spitzbergen.

Brief discussion of vertical temperature variations in spring and summer (early fall) seasons. Bibliography (16 items).

**Copy seen:** DI.

**22148. GOGIN, E. E.** Otmorozhenie. (Meditsinskaja sestra, Nov. 1951. no. 11, p. 21-23) **Title tr.:** Frostbite.

Contains elementary information on the causes and pathology of frostbite; degrees of frostbite; recognition of frostbite; first aid and local therapy.

**Copy seen:** DLC.

**22149. GOGOLEV, G. M.** Povyshenie molochnoj produktivnosti korov v Ĭakutii. (Sotsialisticheskoe zhivotnovodstvo Jan. 1952. v. 14, no. 1, p. 81-82) **Title tr.:** Increasing the milk productivity of cows in Yakutia.

Contains a report on recent advances in dairy production and dairy cattle breeding in Yakutia, with sections on climate, rise in milk production (from 400-500 litres per year up to 1500-2000 l., introduced races of cows, increase in milk production by early calving, breeding, feeding and pasture, housing, etc.

**Copy seen:** DLC.

**22150. GOIKOLOV, E. F.** Perenosnyĭ teplak dlia skorostnogo podogreva kirpicha. (Būlleten' stroitel'noi tekhniki, June 1952, v. 9, no. 12, p. 26-27, illus., table) **Title tr.:** Portable heater for rapid warming of bricks.

Contains a description of a portable, sectional steam heater, for warming bricks in cold areas or seasons; the capacity, output, rate of heating, etc., are given.

**Copy seen:** DLC.

**GOLD, L. W.,** see Pearce, D. C., & L. W. Gold. Canadian snow survey 1947-50. 1951. No. 25010.

**GOLD, MICHAEL M. A.,** see Lange, K., & others. Studies mechanism cardiac injury hypothermia. 1949. No. 23647.

**GOLD, MICHAEL M. A.,** see also Weiner, D., & others. Mechanism of

cardiac injury in hypothermia. 1949. No. 27308.

**GOLDEN, HOWARD**, *see* Horvath, S. M., & others. Acclimatization to extreme cold. 1947. No. 22711.

**GOLDEN, HOWARD**, *see also* Horvath, S. M., & H. Golden. Observ. men perform standard work low temp. 1947. No. 22712.

**GOLDEN, HOWARD**, *see also* Horvath, S. M., & others. Some observ. men sitting quietly extreme cold. 1948. No. 22714.

**22151. GOLDSCHMIDT - ROTH-SCHILD, RUDOLF von**. Der Alaska-Elch. (Natur und Volk, Bd. 45. Sonderheft, Okt. 18, 1945. p. 6\*-10\*, illus.) *Title tr.*: The Alaska elk.

*Contains an account of the animal (Alces gigas, Miller): its morphology, color, size and weight; habitat; food; senses; disposition; enemies; economic value; its penetration into Alaska and assumed reasons therefor.*

*Copy seen:* DLC.

**22152. GOL'DSHTEIN, M. N.** Mekhanicheskie svoystva gruntov. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1952. 259 p. illus., diagrs. *Title tr.*: Mechanical properties of soils.

*Contains a study based on three years' work of the author in recent hydroelectrical and canal projects, and on other Soviet sources. It is primarily concerned with changes in the ground under the effect of various factors and with methods of laboratory investigations of soils connected with construction work. In addition to scattered references, the following chapters deal with problems encountered in the Arctic: 5. Freezing of water in the pores of the ground (p. 71-77); 6. Movement of water across the ground (p. 78-101). Bibliography (41 items).*

*Copy seen:* DLC.

**GOLDTHWAIT, D. A.**, *see* Ames, A., & others. Study of methods of rewarming men. 1948. No. 20181.

**22153. GOLDTHWAIT, RICHARD PARKER, 1911-**. Deglaciation of north-central Baffin Island. (Geological Society of America. Bulletin, Dec. 1951. v. 62, p. 1443-44)

*Abstract of paper submitted at the Society's meeting Detroit, Nov. 8-11, 1951.*

*Copy seen:* DGS.

**22154. GOLDTHWAIT, RICHARD PARKER, 1911-**. Development of end moraines in east-central Baffin Island. (Journal of geology, Nov. 1951. v. 59, p. 567-77, illus. incl. sketch map, 3 plates)

*Results of observations made during the Arctic Institute of North America's Baffin Island Expedition, 1950. "Five steps in the accumulation and deposition of end moraines are postulated from observations of profiles and ablation features around the south end of Barnes Icecap. This end of the icecap is generally more expanded than it was throughout the past century, but a retreat, producing end moraines, has begun on the southern and southwestern sides. Dirt is raised to the surface on shear planes along a narrow fringe of black ice around the edge of the icecap. This is till, exposed in small amounts by 5-7 ft. of ablation each summer. This film of debris slips and slides down the 10°-30° marginal slope and gathers over the lower ice slope. Where the ice becomes blanketed by 3 ft. of ablation moraine, and dirt-filmed ice above melts back rapidly, a trough develops parallel to the margin, isolating a steep-sided moraine on an ice core. After many years this material is let down irregularly to solid ground by flow of the till cover, cuts by transecting streams, and lateral undermining of the exposed core ice." (Author's abstract). Bibliography (6 items).*

*Copy seen:* DGS.

**22155. GOLDTHWAIT, RICHARD PARKER, 1911-**. Geomorphology. (In: Baird, P. D., and others. Baffin Island Expedition, 1950. Pub. in Arctic, Dec. 1950. v. 3, p. 139-41, illus.)

*Brief preliminary report on studies of "the activity of the margin of the southern half of the Barnes Icecap as it related to the formation of moraines, and the glacial history of the area between the icecap and the coast" (about 69°20'-71° N. 68°-74° W.)*

*Copy seen:* DAI; DGS.

**22156. GOLENDBERG, A. D., and N. N. MISHCHUK**. Lechenie otmorozhenii tokami d'Arsonvalfa. (Sovetskii vrachebnyi zhurnal, 1940, no. 12, col. 843-44)

*Title tr.*: Frostbite therapy with d'Arsonval currents.

*Contains a discussion of the value of d'Arsonval (high frequency) currents in the therapy of first- and second-degree*

frostbite, dosage, application, comparison with other methods, etc.

**Copy seen:** DLC.

**22157. GOLĬARKIN, F. E., and IŬ. F. FILIPPOV.** Olenevodstvo Sakhalina. (Sotsialisticheskoe zhivotnovodstvo, July 1950. v. 12, no. 7, p. 74-78, illus.) **Title tr.:** Reindeer farming in Sakhalin.

Contains an account of several reindeer kolkhozes of the island: the number of their animals, area and nature of pastures; increase in production; diseases; description of these reindeer, claimed to be largest in the Arctic; training for riding; proportion of males to females; sterility, castration, selection, raising the young; meat production; utilization of hair, intestines, horns, hides and fur; suggestions for further improvements.

**Copy seen:** DLC.

**GOLIKOV, S. G.,** see Andreev, A. I. Russ. discoveries in Pacific & N. America. 1952. No. 20215.

**22158. GOLLERBAKH, MAKSIMILLIAN MAKSIMILLIANOVICH, 1907-** Sistematicheskii spisok kharovykh vodoroslei, obnaruzhennykh v predelakh SSSR po 1935 g. vkluchitel'no. (Akademiia nauk SSSR. Botanicheskii institut. Trudy. Seriia 2, Sporovye rasteniia, 1950, vyp. 5, p. 20-94) **Title tr.:** A systematic list of Characeae recorded in the U.S.S.R. up to, and including 1935.

Contains a critical revision of this algal family, with preliminary notes and a systematic list of 43 species and some varieties and forms encountered in the U.S.S.R. Modern name, synonymy and literature data (literature et synonymia, icones, exsiccata), are given as well as original diagnoses of new species and forms (in Russian and foreign languages), geographic distribution in the U.S.S.R. and other countries, bibliographical data are noted for each species and a general bibliography (204 items) is appended. Many species native to northern regions of European and Asiatic U.S.S.R. are included.

**Copy seen:** MH-A.

**GOLLERBAKH, MAKSIMILLIAN MAKSIMILLIANOVICH, 1907-**, see also Elenkin, A. A., & others. Sinezelenye vodorosli SSSR. I-II. 1938-49. No. 21634.

**22159. GOLOVACHEV, PETR MIKHAYLOVICH, 1861-1913.** Ekonomicheskaia geografiia Sibiri. Moskva, Tip.

t-va, I. D. Sytina, 1914. 183 p., port. **Title tr.:** Economic geography of Siberia.

Following a geographic and population analysis of the area (including northern Siberia), an account is given of the agriculture, fisheries and wildlife; mining and trade; projected railroads and other means of communication; economic centers and prospects. **Copy seen:** DLC.

**22160. GOLOVACHEV, PETR MIKHAYLOVICH, 1861-1913.** Sibir'; priroda, liudi, zhizn'. Ispr. i dop. 2. izd. Moskva, Tip. T-va I.D. Sytina, 1905. 400 p., illus., 2 fold. col. maps. **Title tr.:** Siberia; nature, people, life. 2d edition revised and enlarged.

This work includes all the northern regions of Siberia and its people (Samoyeds, Yakuts, Chukchis, Yukaghirs, Kamchadals, and others). It has sections on: location and limits of the area, surface structure, climate, soil, flora and fauna; the population (classified according to language groups), their racial features, history, etc.; the life of the people; their occupation in agriculture, hunting, mining; trade and communications; health; education. Bibliography (about 350 items).

**Copy seen:** DLC.

**GOLSTEIN, RICHARD J.,** see Minnesota. University. Institute of Technology. Review properties snow & ice. 1951. No. 24376.

**22161. GOL'TSAPFEL', E.** Golovonogiia Domanikovogo gorizonta fuzhnogo Timana. S. Peterburg, Tipogr. M. Stasulevicha, 1899. 56, 56, x p. illus., plates 1-10. (U.S.S.R. geologicheskii komitet. Trudy, 1899. t. 12, no. 3) **Title tr.:** Cephalopods from the Domanik horizon of southern Timan.

Contains a study of fossil cephalopods in the Domanik horizon in the upper region of Arkhangel'sk province, based chiefly on a collection made by F. N. Chernyshev in 1889-90. 30 species are described, with diagnoses and dimensions given for 13 new forms. Text in Russian and German.

**Copy seen:** MH-Z.

**GOLUB, O. J.,** see Ershoff, B. H., & O. J. Golub. Effects prolonged cold on protein-bound iodine of rat. 1951. No. 21700.

**22162. GOLUB, V. A.** Materialy k flore Okhotsko-Kolymnskogo kraia. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1938. No. 29 (2), p. 119-30) **Title tr.:** Material

on the flora of the Okhotsk-Kolyma territory.

Contains a brief physical and geographic sketch of the Okhotsk-Kolyma region, data on the principal plant formations and a list of 13 rare or interesting plants with notes on habitat and ecology. Summary in English.

**Copy seen:** DLC; MH-A.

**22163. GOLUBKOVA, V. F.** K sistematike roda *Dontostemon* Andr. (Akademika nauk SSSR. Botanicheskii institut. Trudy, Seriya 1, Flora i sistematika vysshikh rastenii, 1950. vyp. 9, p. 71-106, illus., text maps) **Title tr.:** On systematics of the genus *Dontostemon* Andr.

Contains an historical review of the study of herbaceous genus *Dontostemon*, its systematic position, anatomical study of the fruit and pollen, data on geographic distribution and a critical survey of nine species, with a key, synonymy, descriptions, data on distribution and a bibliography (52 items); includes *D. pectinatus* native to Lena River region.

**Copy seen:** MH-A.

**22164. GONCHAROV, IVAN ALEK-SANDROVICH, 1812-1891.** *Fregat Pallada*; ocherki putestestviia. Izd. 3, s peremienami. S.- Peterburg, I. I. Glazunov, 1879. 2 v. (2 p. l., ii, 448 p.; p.l., iv, 662 p.) **Title tr.:** The frigate *Pallada*, travel sketches. 3d edition with changes.

Narrative by noted Russian writer of an extensive sea voyage aboard this sailing ship, (1852-54) from Kronstadt across the Atlantic, by Cape of Good Hope Singapore, Shanghai to the Okhotsk Sea; notes on cruising on the Okhotsk Sea; whaling, Ayan harbor, etc.; and account of his travels thence, overland to the Lena River, Yakutsk, and Irkutsk. The section dealing with the northern region (pt. 2, p. 435-551) contains, in addition to a description of the country, accounts of the native population (Tungus, Gilyaks, Yakuts, etc.) and their life; Russian administrators, missionaries and others. This is a slightly changed, third edition, of a work originally published under the same title and reprinted without change in 1862. Another, shorter edition, with an introduction and illustrative matter was published in 1939 (709 p., illus., front., plates and maps (incl. fold.))

**Copy seen:** DLC (1879, 1862, 1939 editions).

**GONCHAROVA, Z. B.,** see Morozov, A. V., & others. O rasovom i vozrastnom sostave sel'di. 1934. No. 24481.

**GONDATTI, N. L.,** see Levin, M. G. Kraniologicheskie tipy chukchei i eskimov. 1949. No. 23806.

**GOODELL, HELEN,** see Hardy, J. D., & H. Goodell. Thermoregulatory phenomena associated . . . warm & cold environments. 1947. No. 22422.

**GOODFELLOW, A.,** see Rhodes, A. J., & others. Outbreak poliomyelitis Canadian Eskimos. 1949. No. 25514.

**22165. GOODING, S. J.** HBC trade guns. (Beaver, Dec. 1951, p. 30-31, illus.)

Notes on fire-arms made expressly for the Indians and the Hudson's Bay Company's Indian trade.

**Copy seen:** CaMAL.

**22166. GOODMAN, J. E.** Building Liard River bridge piers under unusual difficulties. (Roads and bridges, Feb. 1945. v. 83, no. 2, p. 53-56, 113-15, illus.)

Detailed account of equipment, camp, lumber production, river-ice conditions and actual construction of piers, for a bridge on the Alaska Highway, 125 miles south of the Yukon border.

**Copy seen:** DLC.

**GOODSIR, ROBERT ANSTRUTHER,** see M'Andrew, R. List species Mollusca by Goodsir. 1855. No. 24064.

**22167. GORBAT'SKIĬ, G. V.** Priroda zarubezhnoi Arktiki. Moskva, Gos. izd-vo geogr. lit-ry, 1951. 204 p. illus. **Title tr.:** The nature of the non-Russian Arctic.

Contains an introductory section (p. 3-16) dealing with the area, the population and impact of the white man on it, resources, military bases, etc., of the region as a whole. A general section (p. 17-63), outlines the limits of the area, its seas, climate, geologic, geomorphologic and soil characteristics, flora and fauna. A specialized section (p. 64-193) deals with Alaska, arctic Canada, Greenland, Jan Mayen and Svalbard (Spitsbergen). Appended (p. 196-205) is a list of the Latin names of plants and animals mentioned in the text and an alphabetic index of geographic names. Bibliography (21 Russian publications).

**Copy seen:** DLC.

**22168. GORBUNOV, GRIGORIĬ PETROVICH, 1894-1942.** Hidrobiologiche-

skie issledovaniâ v severnykh morâkh SSSR za 20 let. (Akademiâ nauk SSSR. Izvestiâ. Otdelenie matematicheskikh i estestvennykh nauk. Seriâ biologicheskâ, 1937, no. 5, p. 1527-35) **Title tr.:** Hydrobiological investigations in the northern seas of the U.S.S.R. during 20 years.

*Contains* a general review of investigations in the White, Barents, Kara, East Siberian, Laptev and Chukchi Seas, with data on various expeditions and their achievements, names of the ships, collections and published papers. Summary in English.

**Copy seen:** MH.

**22169. GORBUNOVA, M.** Zabytyĭ narod. (Sovetskââ Aziâ, 1927. god 3, no. 2, p. 107-108) **Title tr.:** A forgotten folk.

*Contains* brief notes on the life of the Soyots, a southerly Samoyedic people about 500 in number, living in the mountains near Lake Te'gir; they are three groups: reindeer-breeders, cattle-herders and farmers; details are given on their domesticated reindeer and yaks, cattle, food and clothing, blacksmithing, religion and shamanism; almost all are infected by syphilis, child mortality reaches 52 per cent. The farmer group is dying out, the other two may survive.

**Copy seen:** DLC.

**22170. GORDON, ANDREW ROBERTSON, and W. C. WOODWORTH.** Some inter-relationships of snow and ice conditions and weather in the Arctic. (American Meteorological Society. Bulletin. Oct. 1950. v. 31, no. 8, p. 271-78, illus.)

"A review of studies made in various sectors of the Arctic, notably by the Norwegians (Sverdrup, Malmgren, Mosby and others) and the Russians. Effect of ice and snow on the radiative balance at the surface and in the lower atmosphere, effect of cloud cover and wind on snow and ice conditions and effect of snow cover on ice discussed. Status of forecasting sea ice reviewed, need for concerted program stressed."—*Meteorological abstracts and bibliography*, Mar. 1951. v. 2, no. 3, p. 197.

**Copy seen:** DLC; MH-BH.

**GORDON, R. A.,** see Bigelow, W. G., & others. Oxygen transport & utilization in dogs at low body temperature. 1950. No. 20680.

**22171. GORETSKIĬ, G. I.** Novyĭ chlen v râdu geomorfologicheskikh obrazovanĭ

Kol'skogo poluostrova. (Priroda 1939. god 28, no. 12, p. 68-69) **Title tr.:** A new link in the chain of the geomorphological formation of the Kola Peninsula.

*Contains* notes on earlier work on the geomorphology of Kola; description of "washouts" found along the Kola watershed and on the highest part of the Kola River basin; their size, depth, bottom deposits, orientation, etc., supposed way of formation; differences from gullies.

**Copy seen:** DLC.

**22172. GORIĀINOV, M. I.** Na kraĭnem severovostoke. Anadyrsko-Chukotskiĭ kraĭ i ego naselenie. (Zemlevedenie, 1917. t. 24, kn. 3-4, p. 73-75) **Title tr.:** In the far Northeast. The Anadyr'-Chukotsk region and its population.

Synopsis of a paper presented at a meeting of the geographical section of a naturalists' society (Obshchestvo lûbitelei estestvennykh nauk, antropologii i étnografii) Apr. 26, 1916, by the author, who served as judge for some years and made two long trips (about 1915) in this territory; gives notes on population, climate, resources, hunting, and fishing.

**Copy seen:** NNA.

**22173. GORIĀNSKIĬ, IŬ. V., and P. G. AVOTIN.** Teoriâ i ustroĭstvo morskikh transportnykh sudov. Utverzhdeno Glavnym upravleniem uchebnykh zavedenĭ Ministerstva morskogo flota SSSR v kachestve uchebnika dlâ vysshikh morekhodnykh uchebnykh. Moskva - Leningrad. Izd-vo Morskoi transport, 1948. 407 p., diagrs. (4 fold.) **Title tr.:** Theory and structure of sea transport ships. Authorized by the Central Administration of the Board of Education of the Admiralty of the U.S.S.R. as a textbook for higher naval schools.

A specialized, engineering textbook, with chapters on the theory of the ship; architecture of marine transport vessels; construction of the body of sea-going vessels; ship structures (steering mechanism, anchoring structures, etc.) ship systems (ventilation, heating and other systems). In addition to isolated references to arctic conditions, authors deal briefly (p. 149-51) with structure of vessels for navigation in that region.

**Copy seen:** DLC.

**22174. GORODKOV, BORIS NIKOLAEVICH, 1890-** . Geobotanicheskie i pochvennye issledovaniâ na Chukotskom poluostrove. (Akademiâ nauk SSSR.

Dal'nevostochnyi filial, Vladivostok. Vestnik, 1936. no. 19, p. 176-78) **Title tr.:** Geobotanical and soil investigations on Chukotsk Peninsula.

*Contains* results of the author's field work in the summer of 1934, with special attention to the study of pastures for reindeer and dairy industry.

**Copied seen:** DLC; MH-A.

**22175. GORODKOV, BORIS NIKOLAEVICH, 1890-** . Moroznaya treshchinovatost' gruntov na severe. (Vsesoyuznoe geograficheskoe obshchestvo. Izvestiya, 1950. t. 82, no. 5, p. 487-500) **Title tr.:** Cracking of the ground in the North, due to frost.

"Polygonal structures in arctic and sub-arctic soils are caused by alternate freezing and thawing. The surface configurations consist of cracks in clay, rings of angular stones around clay and gravel, stone rings in heterogeneous material, and closely packed, even-sized hollows in gravel. Permafrost does not greatly influence the formation of structural soils, but such soils were found in temperate and tropical climates along high mountain slopes. A genetic classification of polygonal nets in the Arctic is presented."—SIPRE. Bibliography (51 items). **Copied seen:** DLC.

**22176. GORODKOV, BORIS NIKOLAEVICH, 1890-** . Polarnyi Ural v verkhnem techenii rek Sobi i Volkara. (Akademiya nauk SSSR. Izvestiya, 1926. seriya VI, t. 20, no. 9, p. 745-66) **Title tr.:** The Polar Ural in the upper courses of Sob' and Voykar Rivers.

*Contains* a summary account of Northern Ural Expedition of the Academy of Sciences U.S.S.R. and the Planning Commission of the Ural Region in 1924-25, with data on geomorphology, botany and soils of the Northern Urals (north from 62° N.) and notes on plant associations and various types of mountain tundra. Summary in French.

A full account of this work was published by the author under a similar title in 1926, see *Arctic Bibliography*, No. 5990.

**Copied seen:** MH.

**22177. GORODKOV, BORIS NIKOLAEVICH, 1890-** . Raboty Gydanskoi ekspeditsii AN po puti k istokam r. Gydy. (Akademiya nauk SSSR. Doklady, 1928. seriya A, no. 7, p. 113-17, map) **Title tr.:** The work of the Academy of Sciences' Gydan Expedition to the sources of the Gyda River.

A brief outline of the itinerary (1927), climate and terrain. Some notes on the flora, fauna and inhabitants of the area of this small river (Gyda-Yaga) flowing into Gydan Bay (about 71°05' N. 78°30' E.) **Copied seen:** DLC.

**22178. GOROKHOV, V. A.** Priat' let raboty Arkhangel'skogo Lesotekhnicheskogo instituta. (Arkhangel'sk. Lesotekhnicheskii institut. Sbornik nauchno-issledovatel'skikh rabot, 1934. t. 1, p. 3-12, illus.) **Title tr.:** Five years' work of the Arkhangel'sk Technical Institute of Forestry.

*Contains* a detailed report on the institution, its buildings, laboratories, museums, library and workshops, as well as its teaching program, staff, etc., during the period of the first five-year plan.

**Copied seen:** DLC.

**22179. GOROSHCHENKO, K. I.** Soloty. (Antropologicheskii zhurnal, 1901, no. 2, p. 62-73, illus.) **Title tr.:** Soyots.

*Contains* anthropological description, based on measurements of 92 persons, made by the author in 1896 in the Urianhalsk region (51° N. 95' E.), with the suggestion that anthropologically the Soyots, usually considered Samoyedic, rather belong anthropologically to the Turcic group and have many affinities with the Kalmuks of Kul'dzhisk.

**Copied seen:** DSL.

**GOROSHCHENKO, K. I.,** see also Ivanovskii, A. Eniseiskie inorodiy. 1907. No. 22894.

**22180. GORSHKOVA, T. I.** Khimiko-mineralogicheskoe issledovaniye osadkov Barentsova i Belogo morei. (Moskva. Universitet. Fiziko-mekhanicheskii matematicheskii fakul'tet. Assotsiatsiya nauchno - issledovatel'skikh institutov. Izvestiya, 1930. t. 3, no. 1-2 B, p. 49-53) **Title tr.:** Chemico-mineralogical study of the sediments of the Barents and White Seas.

*Contains* an analysis of sediments collected during the *Persel* expeditions of the Marine Scientific Institute 1923-28. Both coastal and open-sea areas were investigated, the analysis including color of sediments (both when fresh and when dry), physical and mechanical properties, mineralogical components, and chemical analysis. The problem of occurrence of iron and manganese in the sediments is given particular reference.

**Copied seen:** DLC.

**22181. GORTIKOVA, NINA NIKOLAEVNA, 1898-1940.** Aktivnost' fermentov i sodержanie pigmentov plastid u rastenii Zapoliar'ia. (Akademiia nauk SSSR. Botanicheskii institut. Trudy. seriia 4, Eksperimental'naiia botanika, 1950. vyp. 7, p. 5-17) *Title tr.*: Ferment activity and pigment content of plastids in the plants of the polar region.

*Contains* an ecological and physiological study of flowering plants in the Kola Peninsula, carried out by the author as a member of the Plant Ecology Section of the Kola Expedition of the Academy of Sciences of U.S.S.R., with data on activity of ferments and pigments of plastids of 20 plants in various habitats.

*Copy seen:* MH-A.

**GORTIKOVA, NINA NIKOLAEVNA, 1898-1940, see also** Danilov, A. N. Reaktsiia rastenii na zatmenenie. 1950. No. 21357.

**22182. GOSSELIN, R. E.** Acute hypothermia in guinea pigs. (American journal of physiology, Apr. 1949. v. 157, p. 103-115, 6 fig.)

*Contains* account of experiments with unanesthetized, jacketed animals, immersed in ice water; measurements included: colonic temperatures, electrocardiograms, ventilation rate, oxygen consumption and CO<sub>2</sub> production. An attempt is made to correlate these physiologic indices with the observed behavior of each animal and with the success or failure to survive the severe reduction of body temperature. Bibliography (16 items).

*Copy seen:* DLC.

**GOSUDARSTVENNYY GIDROLOGICHESKIY INSTITUT, see** Akademiia nauk SSSR. Zoologicheskii institut. Issled. dal'nevostochnykh morei SSSR II. 1950. No. 20102.

**22183. GOURLIE, NORAH.** A winter with Finnish Lapps. London and Glasgow, Blackie and Son, 1939. xii, 243 p. plates, maps (incl. fold).

*Contains* description of the author's trip via Helsinki to Rovaniemi, Ivalo to Inari; her life in the Lapp household, the pulka and reki sleigh types, her attempts at reindeer-driving; role of the reindeer in Lappish life, a round-up (with illus. of ear-markings); her trips to Karasjok, Utsjoki, a visit to the Petsamo nickel mine. Legendary tales and songs are included, also a brief history of the Skolt Lapps, life in their winter village, and a

chapter on the Swedish Lapps of Kare-suando. Throughout are a traveler's impressions of local differences in the Lapps' customs and physique, dress, dwellings, etc., and their modification by Finnish and other influences.

*Copy seen:* DLC.

**22184. GOVORKOV, I. V.** Promysel belukh v Taue v sezon 1930 goda. (Rybnoe khozaistvo Dal'nego Vostoka, 1931, no. 1-2, p. 59-63, tables) *Title tr.*: The white whale (beluga) industry in Tauya during 1930.

*Report* on the number of belugas caught on the Okhotsk coast and processed at the factory in Tauya. Number of animals, their size, sex, thickness of blubber, etc., are given; also kind and amount of natural and industrial products obtained, and chemical analyses of the latter, especially the fats.

*Copy seen:* DLC.

**22185. GRABOWSKY, F.** Ueber eine Sammlung ethnographischer Gegenstände von der Giljaken der Insel Sachalin. (Internationales Archiv für Ethnographie, 1897. Bd. 10, p. 93-103, plate) *Title tr.*: On a collection of ethnographical objects of the Gilyaks on Sakhalin Island.

*Contains* description of 30 objects (house models, clothing, implements and utensils, boat and sledge models, equipment for hunting and fishing, musical instruments, talismen, etc.), collected by a merchant, Ad. Dattan, of Vladivostok, and sent to a museum in Braunschweig, Germany, where the author was assistant.

*Copy seen:* DLC.

**22186. GRAINGER, GEORGE.** The attack; [and] Hurry up and wait. The first [and] second of two chapters of "Ice-bound." (Alaska sportsman, Jan.-Feb. 1951. v. 17, no. 1, p. 12-15, 33-37; no. 2, p. 16-19, 30-36, illus.)

*Story* of an Alaska National Guard company stationed on the Pribilof Islands during World War II; describes the Japanese attack on Dutch Harbor, June 3, 1942; army life on the seal islands, and the weather conditions.

*Copy seen:* DI.

**22187. GRANÖ, JOHANNES GABRIEL, 1882- .** Gehöfte und Siedlungen in Finnland; eine geographische Übersicht. Helsinki, 1937. 66 p., 4 plates, 16 illus., maps. (Fennia, 63:6) *Title tr.*: Farms

and settlements in Finland; a geographical survey.

*Contains*, on the basis of a survey extending to the arctic coast, data on the dwellings, location of the farms; population density and its significance for the geography of settlement; rural settlements; centers of settlement; geographic settlement-areas. Literature (27 items).

**Copy seen:** DLC.

**22188. GRANT, RONALD, and others.** Atrial fibrillation induced by epinephrine in hypothermic dogs. (American heart journal, June 1949. v. 37, p. 1081-1089, fig.) *Other authors:* M. M. Gertler and K. G. Terroux.

*Contains* a study with variously anesthetized dogs made hypothermic with ice-packing. Atrial fibrillation was produced in these animals by (a) vagus stimulation, (b) intravenous epinephrine injection, and (c) vagus stimulation following epinephrine injections. Hypothermia alone did not cause fibrillation. Bibliography (52 items).

**Copy seen:** DLC.

**22189. GRANT, RONALD.** Emotional hypothermia in rabbits. (American journal of physiology, Feb. 1950. v. 160, p. 285-90)

*Contains* a report on experiments which demonstrated that light restraint (in normal posture and without compression) may cause profound hypothermia by activation of heat loss mechanisms. The effect is usually reversed after several hours; it is largely inhibited by exposure to cold and completely inhibited by injection of pyrogens. The phenomenon known for 140 years or more is attributed to emotional factors. Bibliography (7 items).

**Copy seen:** DLC.

**22190. GRANT, RONALD.** Physiological effects of heat and cold. (Annual review of physiology, 1951. v. 13, p. 75-98)

*Contains* a review of the last year's contributions which in the opinion of the reviewer "are significant, controversial, provocative of further investigation;" includes the following sections: thermoregulation; fever; hypothermia. Bibliography (118 items).

**Copy seen:** DSG; NNN.

**22191. GRANTHAM, E. N.** Education goes north. (Canadian geographical journal, Jan. 1951. v. 42, p. 44-49, incl. plate, illus.)

Popular, informative article on Indian and Eskimo schools in the Canadian Arctic and sub-Arctic, listing their localities and mentioning their maintenance by the Dominion Government, Church of England, Roman Catholic Church or Northern Canada Evangelical Mission. Author discusses the problem of the Eskimos' seasonal migration, their syllabic writing, the role of the "welfare teacher", and the standard of education in the North relative to that in Canada generally. **Copy seen:** DGS; DLC.

**GRATSIANOV, V. I.,** see Berg, L. S. Nĕskol'ko zamĕchanĭi po povodu Gratsianova. 1909. No. 20599.

**GRAY, DWIGHT E.,** see U. S. Library of Congress. Technical Information Division. Annotated bibliography snow, ice & permafrost. 1951-52. No. 26960.

**22192. GRAY, GEORGE J., Jr.** Ice fog and aircraft operations. (Weatherwise, Dec. 1951. v. 4, no. 6, p. 128-30, 2 fig.)

"While pure ice fog does not usually form above the temperature range of  $-40^{\circ}$  to  $-60^{\circ}$  F., in the presence of smoke in the air during a strong temperature inversion and light winds, ice fog may form at temperatures  $-40^{\circ}$  to  $20^{\circ}$  F. The physical conditions underlying the formation of ice fog, the characteristics of ice fog and its effect upon visibility, the effect of topography upon ice fog formation and specific conditions leading to its formation in Alaska and Greenland are discussed."—*Meteorological abstracts and bibliography*, Aug. 1952. v. 3, no. 8, p. 562.

**Copy seen:** DWB.

**GRAY, LOUIS H.,** see Radin, P., & L. H. Gray. Eskimos. 1912. No. 25328.

**22193. GREAT BRITAIN. HYDROGRAPHIC DEPT.** Notes on conveying in ice. London, 1946. 26 p., diagrs. (Hydrographic publication. H. D. 394)

Prepared for use in conjunction with the article on ice and ice navigation published in *Arctic pilot* vol. 1, and the *White Sea pilot* (see *Arctic Bibliography*, No. 6094, No. 6103). Notes on regulations for ships conducted, signals used, ice scale, White Sea ice terms, glossary, conventional signs used on Russian ice charts, types of ships used in arctic ice; the assembly, distance apart, speed, and course of convoy; piloting through ice,

through exceptionally heavy ice, towing in ice and breaking out of ships.

*Copy seen:* DN-HO.

**22194. GREEN, CHARLOTTE HILTON.** Alaska's university—farthest North. (Nature magazine, May 1951. v. 44, p. 258-61, 272, illus.)

General remarks on Alaska's strategic and geographic importance, attractions and unique characteristics of the Territory, and the development and present position of the University of Alaska.

*Copy seen:* DGS.

**GREEN, G. J.,** *see* Pady, S. M., & others. Arctic aerobiology III. Presence of spores. 1950. No. 24931.

**GREEN, J. E.,** *see* Brown, M., & others. Parasitic infections Eskimos Igloodik. 1950. No. 20955.

**22195. GREEN, JACK C.** Field test of Canadian snowmobile. Project No. 21-01-024, Arctic Aeromedical Laboratory, Ladd Air Force Base, Alaska. Aug. 1949. 6 p. incl. illus.

"A modified Canadian Snowmobile (Mk II, Penguin) operated satisfactorily as a cross-country (subarctic) crash rescue vehicle. The right forward window was removed, framed, and hinged to open to the interior. The panel below the window was replaced by a door which opened to the exterior. Two litters could be suspended by a series of straps from a monorail running the length of 1 side of the vehicle. A litter clamp midway up the radio bracket locked the upper litter in place; 2 clamps attached on the side-wall of the floor level secured the lower litter. It appears feasible to modify this model to accommodate 4 litter patients."—SIPRE.

*Copy seen:* DLC. (Tech. Info. Div. U58366).

**22196. GREEN, R. S.** What can be done about rats? (Alaska's health, Feb. 1945. v. 3, no. 2, p. [4-5])

Note on a survey of port towns, made by the Plague Suppressive Measures Laboratories, U. S. Public Health Service, with findings of rat infestation for ten places surveyed. *Copy seen:* DLC.

**22197. GREENAWAY, KEITH ROGERS, 1916-** Arctic air navigation. [Ottawa] Defense Research Board [1951] 138 p., illus. *For official use.*

A monograph "intended to act as a guide and reference manual for navi-

gators and pilots . . . and to supplement, not replace basic navigation textbooks." *Contents:* introduction; maps and map projections; direction; the magnetic compass in the Arctic; asco-gyro system; dead reckoning; fixing aids; twilight; flight planning; cruise control.

*Copy seen:* CaMAI.

**22198. GREENAWAY, KEITH ROGERS, 1916-** Experiences with arctic flying weather. [Toronto] 1950. 2 p. l. 12 numb. l. (Royal Meteorological Society, Canadian Branch. Papers. v. 1, no. 9) mimeographed.

The author (in Arctic research section of the Defence Research Board of Canada) presents practical navigational information, in the course of discussing general characteristics of arctic weather throughout the year, wind velocities, fog, clouds, blowing snow, temperature, turbulence, visibility, forecasting for flights relative to the type of aircraft and operation. Finally he comments on available navigational aids, and difficulties experienced in forecasting flying weather.

*Copy seen:* CaMAI; DWB.

**22199. GREENAWAY, KEITH ROGERS, 1916-** The R. C. A. F. high latitude twilight computer. (Arctic circular, Jan. 1952. v. 5, no. 1, p. 2-5)

Following an outline of the problem of twilight in general and at high latitudes in particular and difficulties of air navigation in polar regions due in part to twilight, the author describes the computer developed in 1948, used to flight plan the first Royal Canadian Air Force flight to the North Pole in May 1949, and on high latitude flights subsequently. Instruction is offered in its use. The apparatus is claimed to compound "the speed and flight direction of the aircraft with the earth's rotation. The aircraft's track in space is presented in graphical form and is shown in relation to the twilight belt."

*Copy seen:* DLC.

**GREENAWAY, KEITH ROGERS, 1916-**, *see also* Koenig, L. S., & others. Arctic ice islands. 1952. No. 23348.

**22200. GREENE, RAYMOND.** Cold in the treatment of damage due to cold. (Lancet, Dec. 12, 1942. v. 243, p. 695-97, illus.)

*Contains* descriptions and pathology of (1) true frostbite, (2) chilling, (3) "state of physiological reaction" to cold. Principles of treatment are discussed and the

recommended cooling unit described. The author claims that in true frostbite "most of the affected tissue is doomed and no treatment can save it," whilst in chilling, "ancient tradition and modern experiment combine to suggest that while the patient himself is kept warm, the affected tissue should be cooled." Abstract by F. H. K. Green in *Bulletin of war medicine*, Oct. 1943. v. 4, no. 2, p. 74.

**Copy seen:** DLC.

**22201. GREENE, RAYMOND.** Frostbite and kindred ills. (*Lancet*, Dec. 6, 1941. v. 241, p. 689-93)

*Contains the text of a lecture delivered at the British Postgraduate Medical School, London, Feb. 6, 1941, discussing frostbite in military campaigns; true frostbite, trench-foot, shelter-foot, and immersion foot, their symptoms and pathology. Causes of cold injuries are individually considered: cold, warmth after cold, damp, wind, circulatory stagnation, anoxia, nutritional deficiency and trauma; their prevention and therapy are outlined. Bibliography (about 30 items). Abstract by C. Wilcocks in *Bulletin of war medicine*, Mar. 1942. v. 2, no. 4, p. 309. **Copy seen:** DLC.*

**22202. GREENE, RAYMOND.** Frostbite and trench foot. (*Lancet*, Feb. 17, 1940. v. 238, pt. 1, p. 303-305)

*Contains an account of the common characteristics of frostbite and trench foot; their etiology, pathology, prophylaxis and treatment. Bibliography (19 items). **Copy seen:** DLC.*

**22203. GREENFIELD, A. D. M., and others.** Circulatory response to cold in fingers infiltrated with anesthetic solution. (*Journal of applied physiology*, 1952. v. 4, no. 10, p. 785-88) *Other authors:* J. T. Shepherd, and R. F. Whelan.

*Contains a report of experiments made on three normal men; cold vasoconstriction, cold dilatation and the Lewis effect could be observed in the infiltrated region. The reaction of the infiltrated finger was more affected than the control by the temperature to which it was exposed before cooling, a condition similar to that of a chronically denervated finger. Bibliography (6 items).*

**Copy seen:** DLC.

**22204. GREENFIELD, A. D. M., and others.** Heat loss from toes and forefeet during immersion in cold water.

(*Journal of applied physiology*, July 1951. v. 4, p. 37-45, diags.) *Other authors:* G. A. Kernohan, R. J. Marshall, J. T. Shepherd and R. F. Whelan.

*When toes of a warm subject are placed in water at 0°-6° C. there is almost complete arrest of circulation followed by a vasodilatation and by alternating periods of vasoconstriction and vasodilatation. At height of cold vasodilatation, heat loss of toes is less than of fingertips. If subject is heated, the heat loss is about doubled, and, if cooled, it is reduced. The blood flow during cold vasodilatation in a heated subject is probably as great as in uncooled toes, in a comfortable subject, however, the blood flow is only about one half as great as in the heated subject.—From authors' summary. Bibliography (9 items).*

**Copy seen:** DLC.

**22205. GREENLAND. LAWS, REGULATIONS, etc.** Appointment of a Place-name Committee for Greenland, 1949. (*Polar record*, July 1950. v. 5, no. 40, p. 625-26)

*Contains an English translation of the appointment, made by the Prime Minister on Apr. 11, 1949, superseding that of Feb. 11, 1934. Following list of members, the composition of the Committee and its authority and duties, etc., are stated.*

**Copy seen:** DLC.

**22206. GREENLAND. LAWS, REGULATIONS, etc.** New regulations concerning scientific work in Greenland, 1949. (*Polar record*, July 1950. v. 5, no. 40, p. 625)

*Contains decisions made on Mar. 28, 1949 by the "Kommissionen for videnskabelige undersøgelser i Grønland" (Commission for Scientific Investigations in Greenland); these concern the handling of applications for permission to carry out research work in Greenland, the qualifications of the applicant, the question of duplication in research, preference for Danish scientists, etc.*

**Copy seen:** DLC.

**22207. GREENLAND. LAWS, REGULATIONS, etc.** New regulations concerning travel to and in Greenland. (*Polar record*, July 1950. v. 5, no. 40, p. 623-24)

*Contains an English translation of regulations which appeared in *Kundgørelser vedrørende Grønlands Styrelse*, 1948, nr. 5, p. 65-67, and which replace similar regulations published in the*

same source in 1939, nr. 2, p. 22-23. The regulations concern: travel applications and permits for foreigners and Danish citizens; information to accompany applications; financial means; health; requirements from expeditions; infringements and fines, etc.

**Copy seen:** DLC.

**22208. GREENLAND. LAWS, REGULATIONS, etc.** Regulations concerning wildlife protection in East Greenland north of Scoresbysund, 1950. (Polar record, July 1952. v. 6, no 44, p. 547-48)

*Contains translation from Kundtørelser vedrørende Grønland*, nr. 12, 1950, p. 357-60, of proclamation of Dec. 1, 1950. Regulations on hunting of musk oxen and other animals, trapping methods, Sandø reserve are given; also exemptions and penalties.

**Copy seen:** CaMAI; DLC.

**22209. GREENLEES, STEPHEN.** The caribou hunters. (Forest and outdoors, Nov. 1952. v. 48, no. 11, p. 12-13, 20, illus.)

*Contains an account dealing with the Cree Indian's dependence on Barren Land caribou herds; their decimation by the white man; a caribou hunt; uses of the caribou, etc.* **Copy seen:** DA.

**GREENWOOD, W. F.,** *see* Bigelow, W. G., & others. Hypothermia role in cardiac surgery. 1950. No. 20679.

**GREENWOOD, W. F.,** *see also* Bigelow, W. G., & others. Oxygen transport & utilization in dogs at low body temperature. 1950. No. 20680.

**22210. "GREMLIN",** *pseud.* Arctic hitchhike. (Royal Engineers journal, Mar. 1951. v. 65, p. 31-50, 4 plates, 2 maps (1 fold.))

Account of a three-week vacation trip in the summer of 1949 in Norwegian and Finnish Lapland, telling of the towns, roads, airmail service, the friendly inhabitants, ease of crossing national borders, weather, and mosquitoes, etc.

**Copy seen:** DGS.

**GRENEVETSKII,** *see* Īakovlev, A. I. Diagnoses Tenthredinidarum novarum. 1892. No. 22774.

**22211. GRENFELL, Sir WILFRED THOMASON, 1865-1940.** Medicine in the sub-Arctic. The Mary Scott Newbold lecture. Lecture 12. (College of

Physicians of Philadelphia. Transactions, 1930. v. 52, p. 73-95)

Following an outline of the author's work and experience among the fishermen of the North Sea, Newfoundland and Labrador, an outline is given of their hygienic, social and economic conditions, a general summary of the diseases encountered. *Leprosy*: not a single case has been seen in 40 years. *Tuberculosis*: of all the tissues, is "still very common", and takes "far the largest toll of our people". Insufficient diet, lack of light and air in the cabins and holds of the fishing vessels, and in the huts ashore, are contributing factors. *Syphilis* and *gonorrhea*: rare among the Newfoundland fishermen, the residents of the Labrador coast and the Eskimos, they developed into a devastating epidemic when a shipload of Eskimos returned from the World's Fair at Chicago (1892). American fishermen were another source of infection. *Malaria*: not a single case of it, or yellow fever, was observed. *Dysentery*: rare despite "utter lack of sanitation". *Tapeworm*: various intestinal parasites prevail, oxyurids and ascarids being very common. *Typhoid*: several outbreaks were recorded. *Smallpox*: has always been of a very mild type and has never been a cause of death. *Diphtheria*: has once or twice been very fatal. An account of these fatal outbreaks is given. *Influenza*: the epidemic that struck nearly the whole world soon after World War I proved the most fatal in Labrador. In one community of 365 Eskimos, 300 died, including all males. Neuroses, psychoses, tumors, etc., are touched briefly.

**Copy seen:** DSG.

**22212. GREZE, NIKOLAI SAMUILOVICH.** Die Spinnen der Halbinsel Jamal. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik. 1909. t. 14, no. 3-4, p. 325-31, plate 7) **Title tr.:** Spiders of Yamal Peninsula.

*Contains an enumeration of 23 spiders collected by B. M. Zhitkov in 1908 on Yamal Peninsula, western Siberia, with descriptions of Notioscopus jamalensis, Xysticus albidus and Pardosa rufa n. spp.*

**Copy seen:** DLC; MH-Z.

**22213. GRICHUK, V. P.** Geograficheskie landschafty russkoi ravniny lednikovogo perioda. (Priroda, Feb. 1952. v. 41, no. 2, p. 115-20, maps) **Title tr.:** Geographical landscapes of the Russian Plain of the glacial period.

*Contains* a popular presentation of the geographical configuration; rivers, lakes and seas; climate, flora and fauna of the Russian Plain, and areas north of it during the following epochs: end of the Pliocene; Likhvim-Dneper interglacial; epoch of maximal glaciation; Dnepro-Valdai interglacial; the epoch of the Valdai glaciation. Northern European Russia, as well as Fennoscandia are included in the account.

*Copy seen:* DLC.

**22214. GRIDNEV, I. D., and A. D. POBEDIMSKIĬ.** Propusk shugi cherez turbiny s pomoshch'ŭ vikhrevykh voronok. (Gidrotekhnicheskoe stroitel'stvo, June 1952, v. 21, no. 6, p. 25-27, illus., diagrs.) *Title tr.:* Passing sludge-ice through turbines with the aid of vortex screens.

*Contains* information on the seasons of occurrence of sludge ice at two stations studied; its percentage; various methods used to cope with sludge ice in hydroelectric stations; description of the vortex method; results with models and preliminary results in the plants; analysis of the advantages of this method over others.

*Copy seen:* DLC.

**22215. GRIEG, JAMES ALEXANDER-SØN, 1861-1936.** Bidrag till kjendskaben om de nordiske alcyonaria. (Bergen, Norway. Museum. Aarbok, 1893, pub. 1894, no. 2, p. 1-21, 2 plates) *Title tr.:* A contribution to the knowledge of northern Alcyonaria.

*Contains* a critical study of five northern species of polyps of the order Alcyonaria, based on the investigation of specimens collected in Greenland Sea, Lofoten Island, East Greenland waters and Davis Strait; one species (from Trondheim Fiord) is described as new.

*Copy seen:* MH-Z.

**22216. GRIEG, JAMES ALEXANDER-SØN, 1861-1936.** The Cephalopod fauna of Svalbard. Tromsø, K. Karlsens tryk., 1933. 19 p. (Tromsø, Norway. Museum. Aarshefter, 1930. Bd. 53, nr. 1, Naturhistorisk avd. Nr. 6)

*Contains:* Critical notes on six species of Cephalopodan molluscs found in Svalbard waters, with measurements, citations of specimens and stations, and a bibliography (26 items).

*Copy seen:* DLC; MH-Z.

**22217. GRIEG, JAMES ALEXANDER-SØN, 1861-1936.** Cephalopods from the west coast of Norway. (Bergen,

Norway. Museum. Aarbok; naturvidenskabelig rekke, 1933. no. 4, p. 1-25, illus., plates 1-4)

*Contains* critical notes on 14 marine molluscs of the class Cephalopoda from the western coast of Norway, with dimensions, illustrations and list of stations; includes at least four species distributed along the whole Norwegian coast or in northern part of Norwegian waters.

*Copy seen:* MH-Z.

**22218. GRIEG, JAMES ALEXANDER-SØN, 1861-1936.** Decapoda Crustacea from the west coast of Norway and North Atlantic. (Bergen, Norway. Museum, Aarbok; naturvidenskabelig rekke, 1926, pub. 1927, nr. 7, p. 1-53, illus.)

*Contains* description of 84 species of rare decapod crustaceans taken in recent years on the west coast of Norway. The many decapods collected by the Michael Sars from 1900 to 1914 along the Norwegian coast and in the North Atlantic are included (but not the larvae), "no proper list of all the decapods" having been published before. Stations are listed chronologically for every species. At least 25 of the species are native to northern waters. Bibliography (58 items).

*Copy seen:* DLC; MH-Z.

**22219. GRIEG, JAMES ALEXANDER-SØN, 1861-1936.** Echinodermer fra den norske kyst. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1930, pub. 1931, nr. 10, p. 1-13) *Title tr.:* Echinoderms from Norwegian coast.

*Contains* a list of eight species of echinoderms, collected in 1922-29, by the Dept. of Fishery survey ship Johan Hjort, with a list of echinoderms arranged by stations up to Varanger Fiord (70° N. 33°17' E.) and descriptive notes, dimensions and data on habitat and distribution of collected species.

*Copy seen:* MH-Z.

**22220. GRIEG, JAMES ALEXANDER-SØN, 1861-1936.** Grönlands ophiurider. (Bergen, Norway. Museum, Aarbok, 1892, pub. 1893, no. 3, p. 1-12, plate) *Title tr.:* Ophiuroidea of Greenland.

*Contains* a critical revision of Ophiuroidea of Greenland based on the study of collections in the University Museum at Dundee, Scotland; ten species, collected in various stations in Baffin Bay and Davis Strait are studied with special attention given to *Ophioglypha nodosa*.

*Copy seen:* MH-Z.

**22221. GRIEG, JAMES ALEXANDER-SØN, 1861-1936.** *Lagopus urogallus-albus*, ein neuer Moorschneehuhn-Bastard. (Bergen, Norway. Museum. Aarbok, 1889, no. 5, p. 1-13, illus., plate 5) **Title tr.:** *Lagopus urogallus-albus*, a new bastard ptarmigan.

Contains a description of a cross (new to the fauna of Norway) between a ptarmigan *Lagopus albus* and the common capercaillie *Tetrao urogallus*, found in Nordland, also a comparison with other known hybrids.

**Copy seen:** MH-Z.

**22222. GRIEG, JAMES ALEXANDER-SØN, 1861-1936.** Malacological notes. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1933, no. 3, p. 1-8)

Contains a list of three marine molluscs of the suborder Pteropoda, *Clione limacina*, *Limacina helicina* and *L. retroversa*, with a list of stations where they were collected in Svalbard waters; the third species is very rare in arctic seas and belongs to more southerly boreal regions.

**Copy seen:** MH-Z.

**22223. GRIEG, JAMES ALEXANDER-SØN, 1861-1936.** Nogen asteriders alder og aarklasser. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1916-1917, pub. 1917, nr. 1, p. 1-21, [1-2]) **Title tr.:** Age and age classification of some asteroids.

Contains a study of the age of asteroids, based on the material from Greenland, Barents and Kara Seas, with five tables of tabulated data on various species and a list of stations (2 p. at end).

**Copy seen:** MH-Z.

**22224. GRIEG, JAMES ALEXANDER-SØN, 1861-1936.** Nogle bemaerkninger om *Pentagonaster granularis* Retz. (Norske videnskabers selskab. Trondhjem. Skrifter, 1905, no. 6, p. 1-14) **Title tr.:** Some notes on *Pentagonaster granularis*, Retz.

Contains critical notes on this echinoderm found along the western coast of Norway from Kristianiafiord to Varangerfiord, and in Greenland and Murman coastal waters; bibliography (28 items).

**Copy seen:** DLC; MH.

**22225. GRIEG, JAMES ALEXANDER-SØN, 1861-1936.** Nogle cetologiske notiser. (Bergen, Norway. Museum. Aarbok, 1897, pub. 1898, no. 6, p. 1-11) **Title tr.:** Some cetological notes.

Contains descriptions of three species of cetaceans of Norwegian waters, including *Globiocephalus melas* with dimensions of a specimen of this black fish caught in 1890 in Østnaesfjord, Vaagø, Lofoten Islands.

**Copy seen:** MH-Z.

**22226. GRIEG, JAMES ALEXANDER-SØN, 1861-1936.** Nudibranchiate molusker indsamlede av den Norske fiskeridamper "Michael Sars". (Norske videnskabers selskab, Trondhjem. Skrifter, 1912, pub. 1913, no. 13, p. 1-13) **Title tr.:** Nudibranchiate molluscs collected by the Norwegian fishing steamer *Michael Sars*.

Contains an enumeration of 28 marine nudibranchiate molluscs collected by the *Michael Sars* during 1900-1908, with list of stations and data on habitat for each species; includes some species native to Greenland Sea, where the ship cruised in 1900 and 1901.

**Copy seen:** DLC; MH.

**22227. GRIEG, JAMES ALEXANDER-SØN, 1861-1936.** Oversigt over det nordlige Norges echinoderm. (Bergen, Norway. Museum. Aarbok, 1902, no. 1, p. 1-38, illus. plate) **Title tr.:** A revision of echinoderms of northern Norway.

Contains some historical and statistical data, a systematic list of 66 species of echinoderms collected in the sea along the coast of northern Norway, with dimensions, data on habitat and distribution, and a table of distribution in Norwegian waters, Greenland, Spitsbergen and in the seas of the U.S.S.R.

**Copy seen:** MH-Z.

**22228. GRIEG, JAMES ALEXANDER-SØN, 1861-1936.** Oversigt over Norske pennatulider. (Bergen, Norway. Museum. Aarbok, 1891, pub. 1892, no. 1, p. 1-24, plate) **Title tr.:** A survey of Norwegian Pennatulidae.

Contains historical notes on the study of Norwegian sea-pens (fam. Pennatulidae), a bibliography (31 items) and a systematic list of 29 species and some varieties, with synonymy, data on geographic distribution and occasional critical notes; includes at least ten species native to northern Norwegian waters (Lofoten Islands, Finnmark).

**Copy seen:** MH-Z.

**22229. GRIEG, JAMES ALEXANDER-SØN, 1861-1936.** Remarks on Verrill's North American *Alvania* (*Cingula*) *jan-*

*mayeni* (Friele). (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1919-20, pub. 1921, nr. 8, p. 1-9, illus.)

Contains a comparative study of two northern forms of a gastropod known as *Alvania* (*Cingula*) *jan-mayeni*, one from Jan Mayen waters and occurring also in Greenland, Barents, Kara and White Seas, and another from North American waters (Gulf of St. Lawrence and New England waters); the latter form is recognized by the author as a different species and the name *Alvania americana* proposed.

**Copy seen:** MH-Z.

**22230. GRIEG, JAMES ALEXANDER-SØN, 1861-1936.** To nye Cornularier fra den norske kyst. (Bergen, Norway. Museum. Aarbok, 1887, pub. 1888, nr. 2, p. 1-18, plates 1-2) **Title tr.:** Two new Cornularia from the Norway coast.

Contains Norwegian and English descriptions of two new polyps brought home by the Norwegian North Atlantic Expedition, including *Rhizoxenia alba*, n. sp. collected at the station 251 (68°06' N. 9°44' E.). Summary in English.

**Copy seen:** MH-Z.

**22231. GRIEG, JAMES ALEXANDER-SØN, 1861-1936.** Tre nordiske aleyonarier. (Bergen, Norway, Museum. Aarbok, 1890, no. 2, p. 1-13, plate 1) **Title tr.:** Three Scandinavian Aleyonaria species.

Contains a critical study of three northern species of polyps of Aleyonaria, including *Isidella hippuris* found in Lofoten Island waters and in Vestfjord (68°12' N.) during Norske Nordhavsekspedition, *Anthothela grandiflora* from the same region and *Clavularia arctica* taken by G. O. Sars near Vardø, northern Norway.

**Copy seen:** MH-Z.

**22232. GRIFFIN, DONALD REDFIELD, 1915-** . Alaskan bird migrations. (Research reviews, July 1951. p. 11-20, illus., incl. 2 maps)

Discussion of contemporary trend in the study of bird migration, based on new methods used in Northern Alaska (and elsewhere) to study how accurate a course birds take, how much contact flying, guidance by geographic clues and atmospheric conditions help them, and the reasons why many birds migrate to the Arctic to nest. One possible reason offered is the longer day and consequent briefer nesting period. Bibliography (12 items).

**Copy seen:** DSI-M.

**GRIFFITH, FRED R., Jr.** see Schwabe, E. L., & others. Effect prolonged exposure low temperature on b. m. rat. 1938. No. 25986.

**GRIFFITH, R. S.,** see Ames, A., & others. Study of methods of rewarming men. 1948. No. 20181.

**GRIFFITH, RICHARD EDWIN, 1910-** , see Williams, C. S., & others. Waterfowl breeding conditions 1947. 1948. No. 27401.

**GRIFFITH, WILLIAM P.,** see also Barbour, H. G., & others. Approach to use drugs in hypothermia. 1944. No. 20461.

**GRIFFITH, WILLIAM P.,** see also Barbour, H. G., & others. Water shifts in deep hypothermia. 1943. No. 20463.

**22233. GRIGOR'EV, ANDREĬ ALEK-SANDROVICH, 1883-** . Main physico-geographical features of land in the arctic belt. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1938, nouv. ser., v. 19, no. 8, p. 607-610)

Study concerned mainly with the heat régime of the "higher" and "outer arctic zones."

**Copy seen:** DLC.

**22234. GRIGOR'EV, ANDREĬ ALEK-SANDROVICH, 1883-** . Uspekhi Sovetskoi fizicheskoi geografii za 30 let. (Akademiia nauk SSSR. Izvestiia. Seriiu geograficheskaiia i geofizicheskaiia, 1947. t. 11, no. 5, p. 373-94) **Title tr.:** Achievements of Soviet physical geography during 30 years.

Contains an historical survey (compiled with the aid of ten specialists) of progress in physical geography in the U.S.S.R. during the period 1917-1947, including data on arctic regions in the following sections: regional studies, p. 374-75; permafrost, p. 383-84; glaciology, p. 386; phytogeography, p. 388-389; zoogeography, 390-91; and history of geography, p. 391-92.

**Copy seen:** MH.

**GRIGOR'EV, ANDREĬ ALEKSANDRO-VICH, 1883-** , see also Akademiia nauk SSSR. Institut geografii. Russkie geografii i putesthestvenniki. 1948. No. 20098.

**22235. GRIGOR'EV, B.** Russkie na Shpitsbergene. (Nauka i zhizn', 1952. t. 19, no. 3, p. 42-44) **Title tr.:** Russians on Spitsbergen.

Contains historical notes on numerous trips of Russian fishermen ("pomors") to Grumant (West Spitsbergen) long before it was "discovered" by Willem Barendsz in 1596, and on the Russian camps on that island in the 17th and 18th centuries. Russian scientific expeditions thither are recounted, those of Prof. Korotnev in 1898, Admiral S. O. Makarov on *Ermak* in 1901, Rusanov in 1912, the Grumant Co. in 1913-15. Soviet expeditions on the *Persei* in 1925, the *Krasin* in 1928, and the discovery of coal and minerals on West Spitsbergen are noted. The special rights of the U.S.S.R. on Svalbard and Bjørnøya are pointed out.

**Copy seen:** MH.

**22236. GRIGORE'V, S. N.** Mekhanizatsiia posola na Kamchatke i Okhotskom poberezh'e. (Rybnoe khozai'stvo, Mar. 1952. v. 28, no. 3, p. 8-11, illus.) **Title tr.:** Mechanization of the salting process in Kamchatka and on the Okhotsk coast.

Contains an introductory section on the mechanization of the initial steps of handling fish catches (herring and salmon), followed by a detailed account of automatic machinery (already introduced at some processing plants of this area) used for sorting, dividing, and salting the fish; information on operation, output, costs, etc., are included.

**Copy seen:** DLC.

**22237. GRIGORE'V, S. V.** Reka Tuloma, istochnik énergosnabzheniia Kol'skogo poluostrova. (Karelo-Murmanskii kraï, 1934, no. 3-4, p. 37-41) **Title tr.:** The Tuloma River as source of energy supply for the Kola Peninsula.

Contains a technical account of the Tuloma as the largest single source of hydro-electric power in the Murman, with data on the power potential of this and of smaller rivers of Kola Peninsula; areas of reservoirs; catchment areas; precipitations, fluctuations of water level, etc.

**Copy seen:** DLC.

**22238. GRIGOROVA, O. P.** Kartina krovi v sviazi s usloviiami zhizni i avitaminozom u russkogo i nenetskogo naseleniia Novoi Zemli. (Antropologicheskii zhurnal, 1933. no. 1-2, p. 163-77, 4 illus., diag.) **Title tr.:** The blood picture as related to living conditions and to avitaminosis of the Russian and Samoyed population of Novaya Zemlya.

Contains a report of a study made in 1928 on 118 individuals (67.5 percent of

the population). An account is given of the people, their food, vital statistics, social and occupational conditions and previous studies of the problem. Environmental conditions were found to exert a stimulating effect on the hematopoietic organs augmenting their regenerative processes. Reduction of the percentage of hemoglobin, increase in number of erythrocytes and decrease of their diameter, hypochromia and polychromatophilia of the red blood cells, lymphocytosis and eosinophilia, were found in the permanent residents. The blood pictures in scurvy in age, sex and racial groups are also discussed. Bibliography (7 items).

**Copy seen:** DSI.

**22239. GRIMM, OSKAR ANDREEVICH, 1845-** Fishing and hunting on Russian waters. St. Petersburg, R. Golice print., 1883. 55 p. (International fisheries exhibition, London, 1883)

Contains a survey of the water basins of European Russia and their characteristics, a list of 288 fishes of European Russia, with their geographical distribution, p. 5-18. At least 40 species native to the Arctic seas, White Sea and rivers of the northern regions are included. Commercial fishes are noted with fishery statistics, data on prices, preservation and export of fishing products. Hunting and trapping in Russian waters is summarized with notes on mammals, rodents, cetaceans and invertebrates.

**Copy seen:** MH-Z.

**22240. GRIN, M. F., and A. G. KAUFMAN.** Ékonomicheskaiia geografiia SSSR po oblastiam, kraiam i respublikam, vypusk pervyi. Dopushcheno kak ucheb. posobie dlia vuzov. Moskva, Gos. sotsial'no-ekon. izd-vo, 1933. 350 p., illus., maps. **Title tr.:** Economic geography of the U.S.S.R. by regions, districts and republics, part 1. Authorized as a textbook for universities.

The book includes (p. 94-163) the following northern administrative units: Leningrad, Karelia, Severnyy Kray and Komi (i. e. U.S.S.R. west of the Urals). Location, boundaries and area of each unit are given, followed by an account of the population, climate, soil, natural resources, agriculture, forests, fisheries and hunting, industries, trade, transportation and communication. **Copy seen:** DLC.

**22241. GRIPP, KARL, 1891-** , and W. G. SIMON. Nochmals zum Problem des

Brödelbodens. (Centralblatt für Mineralogie, Geologie und Paläontologie, 1934. Abt. B, p. 283-86) **Title tr.:** More on the problem of brodel soils.

Critical analysis of H. Poser's *Bemerkungen zum Strukturboden problem 1934* (Arctic Bibliography No. 13872), and of H. Mortensen's remarks concerning the same problem, immediately following Poser's paper. **Copy seen:** DGS.

**22242. GROCOTT, D. F. H.** With *Aries* to Alaska. (Weather, London, Jan. 1952. v. 7, no. 1, p. 6-10, 5 photos.)

Account of winds and weather on a flight in July 1951 from Iceland across the geographic pole to Fairbanks, Alaska and back near the magnetic pole and Iceland to England.

**Copy seen:** DWB.

**22243. GRÖNBLAD, ROLF LEO, 1895-** . A contribution to the knowledge of sub-aërial desmids. Helsingfors, 1934. 10 p., incl. 2 plates (diags.). (Finska vetenskaps-societeten. Commentationes biologicae, 3:4)

From material collected by squeezing moist moss collected in southeast Finland in 1931-32, author determines a number of desmids also other algae, including five arctic-alpine species of desmids, whose transport thither he attributes to wind.

**Copy seen:** DLC.

**22244. GRÖNBLAD, ROLF LEO, 1895-** . Desmids from West Greenland collected by Tyge W. Böcher. København, C. A. Reitzel, 1952. 25 p. 2 plates, sketch map. (Meddelelser om Grønland. Bd. 147, nr. 8)

**Contains** lists and some remarks on the taxonomy of the desmids collected mainly from localities at the head of Sønder Strømfjord (67° N. 50°-51° W.), during the Danish Botanical Expedition to West Greenland, 1946. Bibliography (30 items).

**Copy seen:** DGS.

**22245. GRÖNBLAD, ROLF LEO, 1895-** . Einige Desmidiaceen aus Sibirien. Helsingfors, 1924. 9 p. (Finska vetenskaps-societeten. Commentationes Biologicae, 1:8) **Title tr.:** Some Desmidiaceae from Siberia.

On the basis of material collected in 1915 by Y. Wuorentaus in the Yenisey region, and elsewhere, 93 species of these microscopic algae are listed and a few described; arctic forms are included in the account.

**Copy seen:** DLC.

**22246. GRÖNBLOM, THORWALD.** Eine neue *Selandria*-Art aus Lappland. (Hym. Tenth.). (Notulae entomologicae, 1938, v. 18, no. 4, p. 135) **Title tr.:** A new *Selandria* species from Lapland.

**Contains** a diagnosis of *Selandria flavistigma* n. sp. found by the author near Vålåustari, Petsamo, Finnish Lapland, on July 15, 1935.

**Copy seen:** DLC; MH-Z.

**22247. GRÖNBLOM, THORWALD, and T. H. CLAYHILLS.** Einige Berichtigungen und Nachträge zu den in W. Petersen's "Lepidopteren Fauna von Estland" vorkommenden Angaben über finnische Macrolepidopteren. (Notulae entomologicae, 1924. v. 4, no. 4, p. 99-103) **Title tr.:** Some corrections and additions to the data on Macrolepidoptera of Finland in W. Petersen's *Lepidopteren Fauna von Estland*.

**Contains** a criticism of the data on Finnish distribution of large lepidoptera in Petersen's paper pt. 1 (pub. 1924, not listed in *Arctic Bibliography*). The present authors give a list of species attributed to Finland by Petersen which they exclude; and present another list of Finnish species with distributional data for Finland, Russian Lapland and Karelia, which includes at least nine species from Finnish and Russian Lapland. A tabulation of statistical data on Macrolepidoptera in Finland and Estland is appended.

**Copy seen:** MH-Z.

**22248. GRÖNDAHL, LAURI.** Lumilavit. (Terra, 1911. v. 23, p. 1-13, illus.) **Title tr.:** Snow avalanches.

Discussion of avalanches (mostly in Switzerland), but relevant to those occurring in conditions of heavy snowfall on steel slopes in the Fennoscandian mountain regions. The avalanches are typed as: wind-avalanche, bottom-avalanche, and ice-avalanche. The bottom-avalanche, usually occurring on treeless slopes, grass-covered embankments, gorges and stony ledges, at elevations of 1800-2500 m. in the Alps, is stressed by the author. The use of trees to prevent avalanche damage is described.

**Copy seen:** DLC.

**GRÖNLANDS SELSKAB, see** Birket-Smith, K., & others. Grønlands bogen. 1950. No. 20697.

**22249. GRÖNLIE, OLE TOBIAS, 1871-** . On the traces of the ice ages in Nordland, Troms, and the south-

western part of Finnmark in northern Norway. (Norsk geologisk tidsskrift, 1940. Bd. 20, p. 1-70, illus., 5 plates)

Presentation of material worked out over many years' study: discussion of Norway's great ice age correlated with the Riss in the Alps and the Saale glaciation in Germany; the stages of the ice border during the melting period of the last ice age, maximal thickness of the last inland ice, evidences of fossils and living plants of a last ice age, details of the late glacial shore lines; mathematical equations of the lines shown on the shore line diagram (plate 2), eustatic stand of the sea level, and discussion of the depth of a depression and the thickness of the depressing ice sheet. Bibliography (22 items). Summary in Norwegian at end.

**Copy seen:** DGS.

**22250. GRØNLIE, OLE TOBIAS, 1871-** . Postglaciale skjellbanker på Langnes ved Tromsø. (Norsk geologisk tidsskrift, 1945. Bd. 25, p. 159-67, diag. fold. table, sketch map) **Title tr.:** Postglacial shell banks at Langnes near Tromsø.

Description of the banks, their faunal composition, location, relations and bearing on the history of shore lines in northern Norway.

**Copy seen:** DGS.

**22251. GRØNTVED, JOHANNES, 1882-** . Additions to the flora of South West Greenland. (Botanisk tidsskrift, 1938, pub. 1937. Bd. 44, hefte 2, p. 252-54)

Contains a list of 19 species of flowering plants collected by the author during his trip to southwest Greenland in the summer of 1937, including five species new to the flora of Greenland and some other rare or otherwise interesting plants.

**Copy seen:** DLC; MH-A.

**22252. GRØNTVED, JULIUS, 1899-** . Phytoplankton studies, 1. *Nitzschia frigida* Grun., an arctic - inner-Baltic diatom found in Danish waters. København, E. Munksgaard, 1950. 19 p., illus., plate, 4 sketch maps. (Danske videnskabernes selskab. Biologiske meddelelser. Bd. 18, nr. 12)

Description of the morphology and geographic distribution of a species which occurs from Baffin Bay eastward to the New Siberian Islands, and discussion of its appearance in Baltic waters. Bibliography (35 items).

**Copy seen:** DGS; DSI-M.

**22253. GROISSMAYR, FRITZ BÉLA, 1894-1948.** Die gewaltigen Temperaturstörungen auf der Nordhemisphäre 1920-1942. (Zeitschrift für angewandte Meteorologie, 1944. Jahrg. 61, p. 15-24, 49-56, diagrs.) **Title tr.:** Great temperature disturbances in the Northern Hemisphere 1920-1942.

Study of data from Europe for the full period; from the United States to 1940; and from Asia 1930-42. Descriptions of the unusual climatic conditions of each year as they occurred throughout the polar or temperature zones, for a period which had been preceded (1900-1919) by a maritime epoch virtually free of sharp anomalies. Bibliography (30 items).

**Copy seen:** DA.

**22253A. GROMOV, VALERIAN INNO-KENT'EVICH, 1896-** . Ostatki mlekopitaŭshehikh iz chetvertichnykh otlozheniŭ v nizov'jakh Obi i Irtysha. (Moskovskoe obshchestvo ispytatelei prirody. Bŭlleten', 1937. Novaja seriia, t. 45. Otdel. geol. t. 15, typ. 2, p. 154-56) **Title tr.:** Mammalian remains of the Quaternary deposits in the lower part of the Ob' and Irtysh Rivers.

Contains the results of the author's investigation of the mammal remains found in the lower Ob' valley, belonging to *Rhinoceros antiquitatis* and *Bison priscus* from the Quaternary deposits of the ice age.

**Copy seen:** DLC; MH-Z.

**22254. GROMOVA, VERA I.** Los' na Kol'skom poluostrove v dolednikovoe vremia. (Akademiia nauk SSSR. Doklady, 1947. T. 56, p. 409-410) **Title tr.:** Elk on Kola Peninsula in preglacial times.

"Vertebrate remains from Pleistocene deposits encountered in a shaft of the Eno-Kovdor mine in the western part of Kola Peninsula, are considered remains of a small elk, *Alces machlis*, and preglacial in age."—Geological Society of America, *Bibliography and index of geology*.

**Copy seen:** DLC.

**22255. GROMOVA, VERA I.** Opre-delitel' mlekopitaŭshehikh SSSR po kostiam skeleta; tekst i al'bom risunkov. Vyp. I. Opre-delitel' po krupnym trubchatym kostiam: A, tekst; B. Al'bom risunkov. Moskva, Izd-vo Akademii nauk SSSR, 1950. A: 239 p.; B: plates 1-105. (Akademiia nauk SSSR. Komissia po izucheniiu chetvertichnogo perioda. Vyp. 9) **Title tr.:** Tables for the de-

termination of mammals of the U.S.S.R. by the skeletal bones. Text and album of illustrations. Part I. A manual for identification by the large, tubular bones: A, text; B, album.

*Contains in the text, a systematic list of 121 species of living and fossil (post-Pleistocene) mammals of the U.S.S.R., description of the most typical bones and tables for the determination of species. Includes many animals representative of arctic regions (polar bear, polar fox, ermine, Kamchatka beaver, etc.) and some extinct ones like Steller's sea-cow.*

*Copy seen:* DLC; MH-Z.

**22256. GROMOVA, VERA I.** Pervobytnyi zubr (*Bison priscus* Bojanus) v SSSR. (Akademiia nauk SSSR. Zoologicheskii institut. Trudy, 1935. t. 2, vyp. 2-3, p. 77-204, plates 1-12, tables 1-8) *Title tr.:* Primordial bison (*Bison priscus* Bojanus) in the U.S.S.R.

*Contains an extensive study of the skulls of primordial bison, based on the collection of the Zoological Institute of the Academy of Sciences. The material, which includes some skulls from arctic regions of northeastern Siberia is surveyed. Detailed descriptions of skulls of ten species are given, including *Bison priscus priscus* from the Lena River region, *B. priscus tsherskii* n. var. from the Yana River region in Yakutia, *B. priscus deminutus* n. var. from the Anadyr' and Kolyma region. A critical survey is added of fossil bisons of Eurasia, comparison with present-day forms, geographic distribution of fossil bisons (see map), tables of dimensions, plates and a bibliography (70 items). Summary in German, p. 193-200.*

*Copy seen:* DLC; MH-Z.

**22257. GROSSE-BROCKHOFF, FRANZ.** Pathologic physiology and therapy of hypothermia. (In: German aviation medicine, World War II, 1950. v. 2, p. 828-42, diagrs)

*Contains outline of problems of local frostbite and general hypothermia in the campaign in Norway, German air force combat missions over the English Channel, and the campaign in Russia 1941-42, followed by an account of the physiology, pathology and therapy of general hypothermia, with sections on: acute hypothermia (in animal experiments); prolonged hypothermia, its symptoms and sequelae; causes of death in acute and prolonged hypothermia; therapy of acute*

*and chronic hypothermia; cold hypersensitivity, etc. Bibliography (43 items).*

*Copy seen:* DLC.

**22258. GROTEFELT, KUSTAVI.** Kaksi Pohjois-Suomen ja Kuolanneimen karttaa 1500-luvun lopulta. Helsingfors, 1892. 12 p. 2 fold. maps. (Fennia, v. 5, no. 9) *Title tr.:* Two 16th century maps of northern Finland and the Kola Peninsula area.

*Contains an historical sketch of early cartographic knowledge of Lapland, Kola and the arctic coast of Fennoscandia, with reproduction and analysis of two maps of 1595 and ca. 1600. Summary in German.*

*Copy seen:* DLC.

**22259. GROVE, A. J.** Ice worms. (Polar record, Jan. 1952. v. 6, no. 43, p. 389-91)

*Contains a note on the "ice worms" from the Seward Glacier found by N. E. Odell (see Arctic Bibliography, No. 12698) and records of other oligochaetes surviving below-freezing temperatures, their possible sources of food, etc.*

*Copy seen:* DLC.

**22260. GRUBINA, S. A.** O lechenii ot-morozhenii karotinom. (Vestnik khirurgii, Aug. 1940. t. 60, kn. 1-2, p. 87) *Title tr.:* On treating frostbite with carotene.

*Contains an abstract of a report presented before the Leningrad Conference of Workers of Evacuation Hospitals and Specialist Sections of Hospitals and Institutes (May 25-27, 1940). Author had good results with third- and especially second-degree frostbite when carotene (dissolved in oil) was applied to the injured areas; it appears to stimulate epithelisation and in some cases has analgesic effect; it can be applied on any stage of evacuation.*

*Copy seen:* DLC.

**22261. GRÜNER, S. A.** Echinokokki u severnykh olenoi. (Omsk. Omskii veterinarnyi institut. Trudy, 1927, vyp. 8, p. 55-58) *Title tr.:* Echinococci among reindeer.

*Investigations conducted by the author in northern Tobolsk in Yakutia, Kamchatka, Chukotka and Alaska, showed that the vesicular form of echinococcus is very common among reindeer, both adult and calves. Preventive as well as curative measures are given.*

*Copy seen:* DSG.

**22262. GRUENING, ERNEST HENRY.** 1887-. The political ecology of

Alaska. (Scientific monthly, Dec. 1951. v. 73, p. 376-86)

Contains an address delivered by the Governor of Alaska to the Second Alaskan Science Conference, Mount McKinley National Park, Sept. 1951, dealing with the history and some of the problems of economic, political, and social life in the Territory.

**Copy seen:** DGS; DLC.

**22263. GRUM-GRZHIMAĬLO, GRIGORIĬ EFIMOVICH, 1860-1936.** *Lepidoptera nova vel parum cognita regionis palaearecticae, I.* (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1899, pub. 1900. t. 4, no. 4, p. 455-72) **Title tr.:** New or little known palaearectic Lepidoptera, I.

Contains Latin diagnoses of new or little known butterflies and moths from various regions, including seven new species and varieties from Yakutia (Lena, Yana, Olenek river basins), and critical notes in Russian. Pt. II (1902) does not include arctic material.

**Copy seen:** DLC; MH-Z.

**22264. GRUNOW, ALBERT, 1826-1914.** *The Diatomeen von Franz Josefs-land.* (Akademie der Wissenschaften, Wien. Mathematisch - naturwissenschaftliche Classe. Denkschriften, 1884. Bd. 48, p. 53-112, 5 plates) **Title tr.:** Diatoms from Franz Josef Land.

Based on a study of bottom sediment samples collected at 100-500 meters depth by the Austro-Hungarian Arctic Expedition, 1872-74, near Franz Josef Land. This collection includes (1) marine species known from many parts of the arctic seas, some parasitic on other algae and some occurring by chance, (2) marine species previously known only from Simbirsk shales and Jutland Pleistocene deposits (altogether 70 species and many varieties), and (3) 30 fresh-water species carried to sea by glacial ice. The author studied also another collection of 39 especially interesting species taken from the underside of an ice-floe west of Matochkin Shar (in Barents Sea) in Aug. 1872, which included many forms already described from Kara Sea and waters eastward (reported by the *Vega* Expedition). **Copy seen:** DGS.

**22265. GRUZDEVA, N.** Developmental cycle of *Izodes persulcatus*, transmitter of the tick encephalitis in the Maritime Province, Far East of the USSR. (Akademiia nauk SSSR. Comptes rendus

(Doklady), 1943. nouv. ser., v. 38, no. 1, p. 51-54, table)

**Copy seen:** DLC.

**22266. GRYC, GEORGE, and others.** Alaska. (In: Possible future petroleum provinces of North America; a symposium. Pub in: American Association of Petroleum Geologists. Bulletin, Feb. 1951. v. 35, p. 151-68, 4 (incl. 1 double maps) Other authors: D. J. Miller and T. G. Payne.

The criteria advanced "for analyzing the possibilities of a possible future province" are "volume of sediments, evidence of oil and gas, presence and extent of unconformities, presence and extent of wedge belts of porosity" and "presence, nature and extent of folding and faulting."—Foreword, p. 143. The section on Alaska reviews investigations and production for the whole Territory and discusses the individual regions of northern Alaska, Brooks Range, arctic foothills, arctic coastal plain, Gulf of Alaska Tertiary province, Alaska Peninsula - Cook Inlet Mesozoic province, interior Alaska and the Continental Shelf. Bibliographies throughout.

**Copy seen:** DGS.

**22267. GRYC, GEORGE.** Developments in Alaska in 1951. (American Association of Petroleum Geologists. Bulletin, June 1952. v. 36, p. 1242-51, 2 maps)

Contains a brief summary of geological and geophysical explorations for gas and oil in 1951, carried out in the U. S. Naval Petroleum Reserve no. 4, northern Alaska, the Iniskin Peninsula-Tuxedni Bay region of the Mesozoic province, and the Yakataga and Katalla regions of the Gulf of Alaska Tertiary province.

**Copy seen:** DGS.

**22268. GRYC, GEORGE, and others.** Present Cretaceous stratigraphic nomenclature of northern Alaska. (Washington Academy of Sciences. Journal, May 1951. v. 41, p. 159-67, sketch map, diagrs.) Other authors: W. W. Patton, Jr., and T. G. Payne.

Presentation and discussion of a new classification of Cretaceous rocks of most of northern Alaska north of the Brooks Range, based on U. S. Geological Survey studies, 1944-51. Described are two new formations, the Okpikruak and Torok, and redefined, the Nanushuk group and Colville group; with notes on Sagavanirktok, a new formation of Tertiary rocks

and the Gubik formation of Pleistocene age. Bibliographic footnotes (4 items).

**Copy seen:** DGS; DSI-M.

**22269. GRYGIER, TADENSZ.** Psychiatric observations in the Arctic. (British journal of psychology, 1949. v. 39, p. 84-96)

This article was written from memory by a doctor who worked in the psychiatric department of the Central Hospital of Komi A.S.S.R., but later lost his notes. It contains sections on: circumstances of the observations (personal circumstances, life at Komi, etc.); types of mental disorders observed; psychological examination of the patients; general atmosphere in the department; conclusions. Bibliography (27 items).

**Copy seen:** DSG.

**GSOVSKI, VLADIMIR, 1891-**, see U. S. Library of Congress. Law Library. Foreign Law Section. Russian administration Alaska. 1950. No. 26958.

**22270. GURVICH, I. S.** Po povodu opredeleniia étnicheskoi prinadlezhnosti naseleniia basseinov rek Oleneka i Anabara. (Sovetskaiia étnografiia, 1952, no. 2, p. 73-85) **Title tr.:** On the question of the determination of the ethnic identity of the inhabitants of the Olenek and Anabar River basins.

Contains discussion of the 1926 census in the Far North, failure to present a clear picture of the ethnic groups in these regions: e. g. in the district of Vilyuysk, many families were listed as Tungus by "nationality," yet their native language is recorded as Yakut. **Copy seen:** DLC.

**GUDKOVA, V. V. SENKEVICH-,** see **SENKEVICH-GUDKOVA, V. V.**

**22271. GUDMUNDSSON, FINNUR.** Das Oberflächennetzplankton der islandischen Küstengewässer nach den Ergebnissen einer Rundfahrt. (Deutsche wissenschaftliche Kommission für Meeresforschung. Berichte, 1937. Neue Folge, Bd. 8, p. 220-68, 9 plates on 6 leaves, 6 diagrs.) **Title tr.:** Surface net plankton of Icelandic coastal waters, based on results of a circumnavigation of the island.

Purpose of the ten-day trip was to establish the quantitative seasonal distribution of net plankton, to study this distribution as influenced by outside factors, and to distinguish between the plankton of harbors and outside waters, if possible determining their source.

**Copy seen:** DLC.

**GUENTHER, WILLIAM B.,** see Wilson, W. S., & others. Surface ozone College, Alaska, 1950. 1952. No. 27436.

**GUERINDON, A.,** see David, R., & A. Guerindon. Influence stimulante froid sur graines de pin. 1951. No. 21360.

**22272. GUERNE, JULES de, and J. RICHARD.** Note sur les entomostracés d'eau douce recueillis par M. Charles Rabot dans la province de Nordland, Norvège septentrionale. (Société zoologique de France. Bulletin, 1889, t. 14, p. 27-31) **Title tr.:** Note on freshwater Entomostraca collected by Charles Rabot in Nordland province, northern Norway.

Contains physical and geographic data on lakes Røsvand, Størvand, Vefsandal and Hatfjædal explored during Rabot's trip to Lapland in 1885, a list of 22 species of crustaceans collected, and a diagnosis of *Bosmina obtusirostris*, a cladoceran never fully described.

**Copy seen:** MH-Z.

**GUERNE, JULES de,** see also Simon, E. Liste des arachnides recueillis en Laponie. 1887. No. 26211.

**22273. GUKOVSKIĬ, E. A.** Geologicheskoe proshloe Prieniseiskogo kraia. Krasnoïarsk, Izd. Būro kraevedeniia pri Sredne-Sibirskom otdelē Russkogo geograficheskogo ob-va, 1928. 23 p. (Biblioteka Prieniseiskogo kraeveda, No. 2) **Title tr.:** The geological past of the Yenisey area.

A brief outline of the geological history of the region including its arctic sector.

**Copy seen:** DLC.

**22274. GULLERS, KARL WERNER, 1915-**, and S. HOEL. Norway; where yesterday meets tomorrow. Oslo, Tiden norsk forlag, 1951. 105 p. illus. Translation of *Norge; glimt fra et stort lite land*, by Ivan A. Jacobsen; poems translated by G. M. Gathorne-Hardy.

Contains text and art photographs of the country and its remarkable features, towns and places; its people, their mode of life, trades, institutions, pastimes, etc. Includes sections on northern Norway: the Lofoten fisheries (p. 24-32); northernmost Norway (p. 33-36) and Trøndelag (p. 36-40).

**Copy seen:** DLC.

**22275. GUNDA, BÉLA.** Die Armbrustfallen in Nordasien und ihre ethnologische Bedeutung. (Ethnos, Stockholm, 1940.

v. 5, no. 1-2, p. 35-53, 7 illus., map)  
**Title tr.:** The cross-bow trap in northern Asia and its ethnological significance.

The paper deals chiefly with Finno-Ugric peoples in Asia and Europe, occasionally giving references also to some other peoples.

**Copy seen:** DSI-M; InU.

**GUNNERUS, JOHAN ERNEST, Bishop, 1718-1773, see Broch, H. Coelenterates. 1918. No. 20915.**

**GUNNERUS, JOHAN ERNEST, Bishop, 1718-1773, see Lynge, B. Lichens in herbarium Gunnerus. 1921. No. 24054.**

**GUNNERUS, JOHAN ERNEST, Bishop, 1718-1773, see Nordgaard, O. Bryozoa in papers of Gunnerus. 1918. No. 24689.**

**22276. GUR'EVA, T. P. Kachestvennaya i kolichestvennaya kharakteristika littoral'nogo naseleniya kamenistof fashii v gube Dal'ne-Zelenetskoy (Vostochniy Murman). (Akademiya nauk SSSR. Murmanskaya biologicheskaya stantsiya. Dal'niye Zelentsy. Trudy, 1948. t. 1, p. 102-122, illus., tables) Title tr.:** Qualitative and quantitative characteristics of the littoral population of the rocky grounds in Dal'ne-Zelentsy Bay (eastern Murman).

Author analyses the distribution and amount of typical plants and animals in three different shore areas. He concludes that the distribution, quality and quantity of the plants and animals is directly dependent on the wave action.

**Copy seen:** DLC.

**22277. GUR'ANOVA, EVPRAKSIYA F. Amphipoda Tikhogo okeana. II. Stenothoidae Dal'nevostochnykh morei. (In: Pavlovskiy, E. N. Pamiaty akad. S. A. Zernova, 1948, p. 287-325, illus.) Title tr.:** Amphipoda of the Pacific Ocean, II. Stenothoidae of the Far Eastern seas.

Contains a list of 37 species of small crustacean amphipods of the family Stenothoidae, native to the northern Pacific, with data on their distribution in Chukchi, Bering, and Japan Seas and in North American waters. Descriptions are given for 18 new species, including 13 inhabiting the Bering Sea and one from Bering and Chukchi Seas. In a supplement, p. 322-25, is a systematic list of 137 species of Stenothoidea with data on their total distribution.

**Copy seen:** MH-Z.

**22278. GUR'ANOVA, EVPRAKSIYA F. Bokoplavy morei SSSR i sopredel'nykh stran (Amphipoda-Gammaridea). Moskva - Leningrad, Izd-vo Akademii nauk SSSR, 1951. 1029 p. illus. (705 fig.) (In: Akademiya nauk SSSR. Opredeliteli po faune SSSR). Title tr.:** Gammaridea of the seas of the U.S.S.R. and adjacent waters.

Contains (in the general part p. 5-145) a systematic index of the families and genera of marine amphipodous crustaceans of the suborder Gammaridea, followed by data on the systematic position, a morphological sketch, remarks on phylogeny and evolution, details of geographic distribution, notes on the biology and economic importance, and bibliography (125 items). In the systematic part (p. 147-1010) are tables for the determination of families, genera and species and brief diagnoses of all known species with literature citations and data on habitat and geographic distribution. An index of Latin names is appended (p. 1011-1029). Distributional data for the northern waters of the U.S.S.R. are given (p. 69-106), lists of arctic and Far Eastern (Bering and Okhotsk Seas) species (p. 123-33), and diagnoses of several arctic forms. **Copy seen:** DLC.

**22279. GUR'ANOVA, EVPRAKSIYA F. Fauna rakoobraznykh Karskogo moria i puti proniknoveniya morskoy atlanticheskoy fauny v Arktiku. (Akademiya nauk SSSR. Comptes rendus (Doklady), 1934. nouv. ser., v. 1, no. 2, p. 91-96, map) Title tr.:** The crustacean fauna of the Kara Sea and the routes of penetration of the Atlantic marine fauna into the Arctic.

Contains an analysis of the crustacean fauna of the Kara Sea, which the author divides into seven large groups according to origin and geographic distribution; the foreign elements in the Kara Sea fauna are discussed and analyzed and their routes of immigration from the Atlantic traced. **Copy seen:** DLC.

**22280. GUR'ANOVA, EVPRAKSIYA F. Individual'naya i vozrastnaya izmenchivost' morskogo tarakana: ee znachenie v evolyutsii roda Mesidothea Rich. (Akademiya nauk SSSR. Zoologicheskii institut. Trudy, 1946. t. 8, vyp. 1, p. 105-44) Title tr.:** Individual and age variability of the marine asellid and its significance in the evolution of the genus *Mesidothea* Rich.

Contains the results of a study of *Mesidothea entomon*, a marine species of crustaceans (sometimes called "hog-lice") from various northern (including White, Bering, Okhotsk and Chukchi) seas, Siberian river estuaries and glacial lakes. The author deals with the influence of environmental factors (chiefly salinity) on its variability (arctic material on p. 116-17, 119-20, 124, 128-29). Summary in English.

**Copy seen:** MH-Z.

**22281. GUR'ĬANOVA, EVPRAKSHĬA F., and P. V. USHAKOV.** K ėkologii i geograficheskomu rasprostraneniĭu *Balanoglossus* v russkikh severnykh morakh. (Gidrobiologicheskii zhurnal SSSR, 1926. t. 5, no. 1-2, p. 11-17, illus.) **Title tr.:** On the ecology and geographic distribution of *Balanoglossus* in Russian northern seas.

Contains data on systematics and ecology of the marine burrowing worm of the genus *Balanoglossus*, including *B. mereschowskii* native to the White Sea, Murman coast and Novaya Zemlya waters; and another unnamed species of *B.* found in the central section of the White Sea. Summary in German.

**Copy seen:** MH-F.

**22282. GUR'ĬANOVA, EVPRAKSHĬA F.** K faune ravnonogikh rakov (Isopoda) Tikhogo okeana. V. Izopody po sboram Kamchatskoi morskoi stantsii gosudarstvennogo gidrologicheskogo instituta. (In: Akademiia nauk SSSR. Zoologicheskii institut, Issledovaniia dal'nevostochnykh morei SSSR. Vyp. 2, 1950. p. 280-92, illus.) **Title tr.:** To the fauna of isopod shrimps (Isopoda) of the Pacific Ocean. V. The isopods from the collections of the oceanographic station of the State Hydrological Institute.

Contains a description of 18 species of these crustaceans (4 of them new), collected during 1932-35 on the shores of southeastern Kamchatka. The new species described here are: *Janiropsis setifera*, Gurjanova sp. n.; *Nannomiscella vinogradovi* Gurjanova sp. n. *Idothea spasskii*, Gurjanova sp. n. and a fourth species described earlier. In addition to the description (morphology), data are offered on occurrence, geographic distribution, ecology, etc.

**Copy seen:** DLC.

**22283. GUR'ĬANOVA, EVPRAKSHĬA F.** K zoogeografii Dal'nevostochnykh morei. (Akademiia nauk SSSR. Izvestiia, serifa

7, Otdelenie matematicheskikh i estestvennykh nauk, 1935, no. 8-9, p. 1229-35)

**Title tr.:** Contribution to the zoogeography of Far Eastern seas.

Contains the results of a zoogeographic analysis of isopod fauna (124 species) of the Bering, Okhotsk and Japan Seas, with data on the seven groups into which this fauna is subdivided by the author; their geographic distribution and relationship with the faunas of the Arctic and Pacific Oceans are dealt with. Summary in English.

**Copy seen:** MH.

**22284. GUR'ĬANOVA, EVPRAKSHĬA F.** K zoogeografii Karskogo moria. (Akademiia nauk SSSR. Izvestiia. Otdelenie matematicheskikh i estestvennykh nauk. Seriya biologicheskaya, 1936. no. 2-3, p. 565-94, text maps 1-6) **Title tr.:** The zoogeography of Kara Sea.

Contains a study of zoogeography of the northern part of the Kara Sea based on the collections of marine amphipods and isopods brought home by the ice-breaker *Sedov* in 1929-30 (collector: G. Gorbunov), ship *Lomonosov* in 1931 (collectors: V. Vagin and L. Retovskii), and ice-breaker *Rusanov* in 1932 (collectors: V. Vagin and N. Kondakov). The material is divided into five zoogeographic groups: circumpolar forms, North Atlantic forms of warmer waters, fauna of polar basin, forms of the eastern Arctic and subarctic forms. Lists of typical forms are given for each zone and a list of all crustaceans arranged by the stations and expeditions; the penetration of various elements into Kara Sea is discussed (see map no. 2). Bibliography (27 items). Summary in English.

**Copy seen:** MH.

**22285. GUR'ĬANOVA, EVPRAKSHĬA F.** On the question of the composition and origin of the fauna of the polar basin Bassalia. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1938. nouv. ser., v. 20, no. 4, p. 333-36)

An analysis of deep-sea Crustacea of the Arctic Basin indicating that the abyssal fauna of this basin is "original, autochthonous and of relative recent age." Based on collections of the *Sadko* high latitude expedition of 1935.

**Copy seen:** DLC.

**22286. GUR'ĬANOVA, EVPRAKSHĬA F., and G. U. LINDBERG.** Uspekhi Sovetskikh gidrobiologicheskikh issledovanii v

Dal'nevostochnykh mor'akh. (Akademii nauk SSSR. Izvestiia. Otdelenie matematicheskikh i estestvennykh nauk. Seria biologicheskai, 1937, no. 5, p. 1537-45) **Title tr.:** Achievements in hydrobiological research in the Far Eastern seas.

*Contains* data on investigations during 1917-1937, including Okhotsk and Bering Seas, with notes on various expeditions, collections and publications. Summary in English. **Copy seen:** MH.

**22287. GUR'IANOVA, EYPRAKSHIA F.** Zur Zoogeographie der Crustacea Malacostraca des arktischen Gebietes. (Zoogeographica, März 1935. Bd. 2, p. 555-71, diagr.) **Title tr.:** On the zoogeography of the malacostracan Crustacea of the arctic region.

*Contains* detailed discussion of the distribution and various groupings of amphipods and isopods designated as truly arctic, found in the Soviet seas east of Novaya Zemlya; based on the rich collections made during 1928-33 by the Arctic Institute U.S.S.R. List of sixty-one species new to Kara Sea, noting location and depth is given.

**Copy seen:** DSI-M.

**22288. GURINA, N. N.** Kamennye labirinty Belomor'ia. (Sovetskaiia arkhologiya, 1948. t. 10, p. 125-42, 9 illus.) **Title tr.:** The stone labyrinths of the White Sea.

*Contains* description of stone rings in the form of labyrinths (round or oval) at Kandalaksha, on the Solovetskiye Islands, in Finland, and other localities near the White and Barents Seas. These rings (illustrated here with photograph and sketched plans) are several thousand years old and had evidently some magic purpose: to assure good luck in fishing.

**Copy seen:** DLC.

**22289. GURINA, N. N.** Nekotorye dannye o zaselenii ūzhnogo poberezh'ia Kol'skogo poluostrova. (Sovetskaiia arkhologiya, 1950. t. 2, p. 105-127, illus., sketch map) **Title tr.:** Some data on the peopling of the southern shores of the Kola Peninsula.

*Contains* description of work of the archeological expedition, directed by the author in 1946 when excavations were made at several sites (indicated on sketch map) near Kandalaksha, and along the Umba and Varzuga Rivers. Several former settlements and two stone rings (labyrinths) were discovered, and

numerous archeological objects excavated: scrapers of quartz, fragments of ceramic, stone axes and hammers are described and illustrated. **Copy seen:** DLC.

**22290. GURINA, N. N.** Neoliticheskie poseleniia severnogo poberezh'ia Kol'skogo poluostrova. (Akademii nauk SSSR. Institut istorii material'noi kul'tury. Materialy i issledovaniia po arkheologii SSSR, 1951. no. 20, p. 143-67, illus., sketch map) **Title tr.:** The neolithic population of the northern coast of Kola Peninsula.

*Contains* analysis of the archeological objects and other data brought to light since 1925, particularly results from the archeological expeditions sent to the Rybachiy Peninsula and other localities on the northern coast in 1935 and 1937, to search for monuments of the "arctic paleolithic." Some 29 settlements, sites and labyrinths were then unearthed and 35 objects of stone, bone and ceramics (tables on p. 150-51) collected. These objects are characterized according to material and function. Old Lappish earth-dwellings were also discovered. The author discusses the problem of the "arctic paleolithic" and neolithic, also refers to his own discoveries made in 1946 at Kandalaksha and Umba, as reported in his *Nekotorye dannye o zaselenii ūzhnogo poberezh'ia Kol'skogo poluostrova*, 1950, q. v.

**Copy seen:** DLC.

**22291. GURVICH, I. S.** Ėtnograficheskaiia ėkspeditsiia v nizhne-kolymskii i sredne-kolymskii raiony űakutskoi ASSR v 1951 godu. (Sovetskaiia ėtnografiia, 1952, no. 3, p. 200-209, 4 illus., map) **Title tr.:** The ethnographical expedition to the lower and middle Kolyma regions of the Yakut ASSR in 1951.

*Contains* preliminary report on a project organized by the Yakut branch of the Soviet Academy of Sciences, to study the present ethnic composition, life and culture of the inhabitants native to those regions. The author with interpreter-assistant visited during Apr.-Oct. 1951, all but one of the inhabited places traveling 3,970 km. by dog- or reindeer-sledge, horses and boats. Material was collected for an ethnographic map covering the Kolyma, Chukoch'ya and Alazeya River basins. An important group of Chukchis was studied, living (since 1850-52) on the lower Kolyma preserving their own language and indigenous culture. These reindeer-breeding Chuk-

this are now collectivized, and the working people organized into brigades of herds-men, hunters, fishers, woodsmen, etc. Their native clothing has been preserved, but some customs, e. g., the voluntary death and service for a wife have disappeared after collectivization; polygamy has been abolished and the exchange of wives begins to be regarded as a violation of the general norm; the last great slaughter of reindeer for a feast took place in 1930. Another native group, Yukaghirs (those living in the tundra self-named Odul), has adopted the Tungus' mode of living, clothing, etc., though preserving their own language, which has even been adopted by some Tungus. The Tungus (called Khangaev, Khodod'in, Lamut, Eveni) were formerly wild-reindeer hunters. Since collectivization in 1933-34, they and the Yukaghirs are organized for reindeer husbandry like the Chukchis. Tungus women's clothing has been adopted by Chukchis and Yukaghirs, and the Tungus men wear clothes of the Chukchi type. Similar mixture and borrowing is apparent also of sledge and harness types. Some old Russian settlers (storozhily) were found and some russification of the natives. The kolkhoz "Turvaugin" for example is comprised of 123 Chukchis, 75 Yakuts, 36 Russians, 32 Tungus, and 28 Yukaghirs, almost everyone speaking two languages at least. The inhabitants on the Middle-Kolyma are Yakuts (with many Russian words adopted) and Tungus (with language and clothing preserved). They are reindeer- and dog-breeders, fishers and hunters, and are organized into collective farms (kol-khozes). Continuation of this study under the same auspices is planned for the summer of 1952 in the Indigirka basin.

*Copy seen:* DLC.

**22292. GURVICH, I. S.** K voprosu ob étnicheskoí prinadlezhnosti naseleniia severo-zapada Ákutskoi ASSR. (Sovetskaiá étnografiá, 1950. no. 4, p. 150-68, tables, maps) *Title tr.:* Contribution to the question of the ethnic position of the population of the northwestern Yakut A.S.S.R.

Author presents 17th century references to the people living in the basins of Olenek and Anabar Rivers; data on tribute paid by this population to the Russians, including the number of Tungus of the Anabar area who paid tribute during 1653-1681; other sources (and

causes) of population fluctuations and changes; migrations and colonization; historical sources as to the ethnic composition of the population, etc. Bibliographical footnotes. *Copy seen:* DLC.

**22293. GURVICH, I. S.** Olenekskie i anabarskie íakuty; istoriko-étnograficheskií ocherk. (Akademiia nauk SSSR. Institut étnografi. Kratkie soobshcheniia, 1950. t. 11, p. 100-106) *Title tr.:* The Olenek and Anabar Yakuts; an historico-ethnographical sketch.

*Contains* description of a region in the basins of the rivers Olenek and Anabar, based on official documents of the 17th and 18th centuries, and on material collected by the author in 1942-46; account of reindeer-breeding, hunting and fishing, food, dwellings, clothing, ornaments, social organization, folklore, etc. The Yakuts of this region are considerably influenced by the Tungus and Russians. The process of acculturation after the Revolution is noted: schools, changed status of women, etc.

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**22294. GURVICH, I. S.** Soísalisticheskoe pereustroístvo khoziáistva i byta íakutov basseínov Oleneka i Anabara. (Sovetskaiá étnografiá 1950, no. 1, p. 107-123) *Title tr.:* Socialistic reconstruction of the economy and life of the Yakuts in the Olenek and Anabar River basins.

*Contains* an outline of changes wrought under the Soviet régime, in these tundra and forest-tundra areas difficult of access and inhabited by reindeer-breeding Yakuts. Following a sketch of the history of these people and their life prior to the Revolution, the author describes exploratory work in their area; establishment of a reindeer-breeding base in 1934-35; a culture-base, bakery, schools, clubs, hospitals, research stations, etc., during 1936-39; the first landing of an airplane in the area; economic organization and progress; experiments in introducing cattle, pigs, horses; advances in elementary and general education; education of adults and illiterates, sanitation work, etc. Bibliographical footnotes.

*Copy seen:* DLC.

**22295. GURVICH, I. S.** Sovremennoe tvorchestvo íakutskikh kosterezov. (Sovetskaiá étnografiá, 1951, no. 3, p. 158-61, 4 plates) *Title tr.:* Recent art of the Yakut bone carvers.

*Contains* description of carvings from

mammoth bone made by native Yakut artists and preserved in the Yakutsk museum of Pictorial Art and in the Pushkin museum, Moscow. The 8 carvings illustrated include dog- and reindeer-drawn sledges.

**Copy seen:** DLC.

**GURVICH, I. S.,** see also No. 22270.

**22296. GUSHANSKAÏA, L. KH.** K izuchenii spirurat vodoplavaušchikh i bolotnykh ptits SSSR. (Akademiia nauk SSSR. Gel'mintologicheskaiia laboratoriiia. Trudy, 1950. t. 4, p. 55-63, illus.) **Title tr.:** A contribution to the study of the Spirurata of aquatic and marsh birds of the U.S.S.R.

**Contains** a systematic list of 23 nematode worms infecting aquatic and marsh birds, with data on hosts, localities and parts affected. Includes *Echinuria* sp. found in the intestine of some aquatic birds in Malozemel'skaya Tundra, Arkhangel'sk province.

**Copy seen:** MH-Z.

**GUSHANSKAÏA,** see also No. 22300.

**GUSSAKOVSKIÏ, V. V.,** see Semenov-Tiān-Shanskiĭ, A. P., & V. V. Gussakovskiĭ. Note sur . . . la tribu des Abiini. 1937. No. 26029.

**22297. GUSSAKOVSKIÏ, V. V.** Obzor palearkticheskikh vidov rodov *Didineis* Wesm., *Pison* Latr. i *Psen* Latr. (Hymenoptera Sphecoidea). (Akademiia nauk SSSR. Zoologicheskii institut. Trudy, 1937. t. 4, vyp. 3-4, p. 599-698, illus., plate 1) **Title tr.:** Study of palearctic forms of *Didineis* Wesm., *Pison* Latr. and *Psen* Latr. (Hymenoptera Sphecoidea).

**Contains** a critical revision of hymenopterous genera *Didineis* (15 species, 9 new) *Pison* (14 species, 5 new), and *Psen* (40 species, 13 new), with keys to the species, Latin diagnoses, critical notes and data on total distribution; includes *Psen* (*Mimesa*) *dahlbomi* (Kamchatka), *P. unicolor* (Yakutia, *P. shuckardi* (Yakutia), and *P. Aporina*) *dispar* n. sp. (Kamchatka).

**Copy seen:** DLC; MH-Z.

**22298. GUSTAFSON, F. G.** A flying visit to northern Alaska. (Asa Gray bulletin, Jan. 1952. n. s., v. 1, p. 96-98)

**Contains** brief account on the author's short visit to Point Barrow late in 1951, his impressions en route of the forest and tree limits, the University of Alaska, and

vegetable and flower growing at Fairbanks, description of Camp Barrow and its surroundings; typical plants observed. The author was collecting plants for vitamin studies, under the auspices of the Arctic Institute of North America.

**Copy seen:** DSI-M.

**22299. GUSTAFSSON, ALFRED A.** Taloudellisten mittausten liittäminen maan kolmioverkkoon. (Maanmittaus, 1928. v. 3, no. 1, p. 15-26, plate (map)) **Title tr.:** On including measurements made for economic reasons into the triangulation network.

**Contains** data on the early and recent triangulation measurements in Finland including the northern part, with map indicating work done by the Russians, Swedes and Norwegians as well as the, Finnish Depts. of Geodesy and Land Surveying.

**Copy seen:** DLC.

**22300. GUSHANSKAÏA, L. KH.** Nematomy ptits Komi ASSR. (Akademiia nauk SSSR. Gel'mintologicheskaiia laboratoriiia. Trudy, 1951. t. 5, p. 67-89, illus., tables) **Title tr.:** Nematodes from birds of the Komi A.S.S.R.

**Contains** a study of these worms in 45 species of birds collected in 1947, by the 265th Soviet Helminthological Expedition to Komi. This is the first study of its kind for the area, as no helminthological work on birds had been done before. 37 species of worms are described including two new genera and three new species; also, two new hosts. Bibliography (23 items). **Copy seen:** DLC.

**22301. GUTENBERG, BENO, 1889- . and C. F. RICHTER.** Seismicity of the earth and associated phenomena. Princeton, Princeton University press, 1949. vii p., 1 l., 273 p., illus., tables, maps.

**Includes** data on the Aleutian arc and Alaska, p. 30-32; "active oceanic belts in the" Arctic, p. 74; and the Canadian Shield under "seismicity marginal to stable masses," p. 81, and as a stable mass, p. 91. **Copy seen:** DGS.

**22302. GUTKOVA, N. N.** Kratkiĭ otchet o mineralogicheskikh rabotakh v Lovozerskikh tundrakh letom 1926 goda. (Akademiia nauk SSSR. Doklady, seriia A, 1927, no. 10, p. 147-49) **Title tr.:** Brief report on the mineralogical work in the Lovozero tundras during the summer of 1926. **Copy seen:** DLC.

**22303. GUTKOVA, N. N.** Kratkii otechet o rabotakh v Khibinskikh i Lovozerskikh tundrakh letom 1924 goda. (Akademiia nauk SSSR. Doklady, 1924. seriia A, Oct.-Dec., p. 176-77) **Title tr.:** Brief report on the work in the Khibiny and Lovozero tundras during the summer of 1924. **Copy seen:** DLC.

**22304. GUTKOVA, N. N.** Novyi titanosilikat—muranit iz Lovozerskikh tundr. (Akademiia nauk SSSR. Doklady, 1930. Seria A. no. 27, p. 731-36, illus.) **Title tr.:** A new titan-silicate, murmanite, from the Lovozero tundra.

Physical, crystallographic and optical properties as well as a chemical analysis of the mineral are given. Occurrence and topography is outlined.

**Copy seen:** DLC.

**GUTKOVA, N. N.,** see also Akademiia nauk SSSR. Khibinskaii gornaii stantsiia. Khibinskaii gornaii stantsiia. 1934. No. 20100.

**GUTSELL, B. V.,** see Canada. Dept. of Mines & Technical Surveys. Geographical Branch. Introduction to geography of Canadian Arctic. 1951. No. 21096.

**22305. GUTSEVICH, A. V.** O komarakh iz Khibinskikh gor. (Akademiia nauk SSSR. Zoologicheskii institut. Parazitologicheskii sbornik, 1934. t. 4, p. 5-17, illus.) **Title tr.:** On mosquitoes of the Khibiny Mts.

**Contains** the result of the study of the collection of mosquitoes (Culicidae) gathered by V. I. Fridolin in 1930-32 from small puddles among the turf of the peat bogs in the vicinity of Khibinogorsk, Kola Peninsula; with a list of 14 species distributed above the Arctic Circle in the U.S.S.R.; another list of six species found in explored region with data on distribution, quantity (by months), and notes on ecological factors. Summary in German. **Copy seen:** DA; MH-Z.

**22306. GUTTZEIT, ERNST.** Jubiläums-tagung des Archivs für Polarforschung. (Petermanns geographische Mitteilungen, 1951. Jahrg. 95, p. 260) **Title tr.:** Anniversary celebration for the Archiv für Polarforschung.

Brief review of program and papers of the meeting held in Kiel, June 18-20, 1951, which dealt with German research on the Arctic during World War II, and recent work by other nations in the Arctic and Antarctic.

**Copy seen:** DGS.

**22307. HAANSHUS, KARL, 1861-1936.** Fortegnelse over Norges Lepidoptera. (Norsk entomologisk tidsskrift, 1933. Bd. 3, hefte 3, p. 165-216, map) **Title tr.:** A list of Norwegian Lepidoptera.

**Contains** a systematic list of 1,567 species of lepidoptera, with tabulated data on their distribution in 18 geographic regions of Norway, including three northern provinces; bibliography (61 items). For corrections and additions, see E. Barca, *Rettelser og tilføjelser til Fortegnelse over Norges Lepidoptera*, 1933.

**Copy seen:** DA; MH-Z.

**22308. HAAPALA, JORMA.** Jäämeren-tähtimö (*Stellaria humifusa* Rottb.) Hailuodossa. (Luonnon tutkija, 1950. v. 54, no. 2, p. 53-54, illus., map) **Title tr.:** *Stellaria humifusa* at Hailuoto.

**Contains** data on the characteristics and Fennoscandian occurrence (map) of *Stellaria humifusa*, a flowering plant found on Hailuoto Island in the Gulf of Bothnia. This find places it in the *Primula siberica* group of plants primarily arctic but occurring also in more southerly localities. (Bibliography 10 items).

**Copy seen:** DLC.

**22309. HAATAJA, JUHO.** Metsätilli Kemijärven kunnan isojaossa. (Maanmittaus, 1946. v. 21, no. 1-2, p. 26-37) **Title tr.:** Forest plots in the division of the Kemijärvi area.

**Contains** discussion mainly of forest law in relation to the forests in the Kemijärvi region (66°30' N. 27°30' E.) formerly held in fief, which were divided in 1899.

**Copy seen:** DLC.

**22310. HAATAJA, KYÖSTI, 1881-** Valtakunnan rajankäynnissä Pohjanlahdesta Jäämereen esiintyneitä oikeudellisia kysymyksiä. (Maanmittaus, 1927. v. 2, no. 1, p. 1-41, 9 maps on plates) **Title tr.:** Questions arising from the surveying of the border from the Gulf of Bothnia to the Arctic Ocean.

**Contains** discussion of boundary problems: the frontier in Lapland and (mainly) the status of river islands in the Tornio and Muonio on the Swedish-Finnish border and in the Teno and Inari on the Norwegian-Finnish frontier. Summary in German.

**Copy seen:** DLC.

**22311. HAAVIO, MARTTI, 1899-** Das Renttierlied des Miikkali Shemeikka. (Suomalais-ugrilainen seura. Aikakauskirja, 1947. v. 53, no. 3, p. 1-50) **Title tr.:** The reindeer song of Michael Shemeikka.

Contains folkloristic investigation of a hunter's magic song, first recorded in 1893, which has been used throughout several generations by famous hunters and singers of the Shemeikka family, settled on Lake Rudavus in Finland. The song is a charm to draw the wild reindeer from their homeland, "Fiery Lapland", whither the Finns went to learn magic from the Lapps. Includes description of a divination from fire performed by a Lapp. **Copy seen:** InU.

**22312. HAAVIO, MARTTI, 1899-** . Ueber die finnisch-karelischen Klageliedern. (Suomalais-ugrilainen seura. Aikakauskirja, 1934. v. 47, no. 3, p. 1-39. **Title tr.:** On the Finnish-Karelian lamentations.

Contains folkloristic investigation of the laments used at the funeral of a deceased relative and also those of a bride at her wedding. The material is taken from the printed sources and deals chiefly with texts and customs found among the orthodox Karelians in the government of Arkhangel'sk. The custom of wailing on such occasions is very old among the Finns; the texts of laments, however, show considerable Russian influence.

**Copy seen:** DLC; InU.

**22313. HAAVIO, MARTTI, 1899-** . Volkstümliche Auffassungen vom Nordlicht. (Suomalainen tideakatemia, Helsingfors. Sitzungsberichte, 1943, p. 200-226, maps). **Title tr.:** Popular concepts of the northern lights.

A study on the folklore of aurora from various regions of Finland based, in part, on the way this phenomenon is designated in different places.

**Copy seen:** DLC.

**HACKEL, DONALD B.,** see Streicher, E., & others. Effects extreme cold on fasting pigeons. 1950. No. 26502.

**HACKETT, WILLIAM H.,** see U. S. Congress. House. Committee on Interior & Insular Affairs. Alaska's vanishing frontier. 1951. No. 26906.

**HACKMAN, OSKAR, 1868-1922,** see Karjalainen, K. F. Religion Jugra-Völker. 1921-27. No. 23136.

**HACKMAN, ROBERT J.,** see Solecki, R. S., & R. J. Hackman. Additional data on the Denbigh Flint Complex N. Alaska. 1951. No. 26335.

**22314. HACKMAN, VICTOR AXEL, 1866-** . Die chemische Beschaffenheit

von Eruptivgesteinen Finlands und der Halbinsel Kola im Lichte des neuen amerikanischen Systemes. Helsingfors, 1905. 146 p., incl. 2 plates (tables), tables. (Finland. Geologiska kommission. Bulletin, 3:15) **Title tr.:** The chemical composition of igneous rocks of Finland and Kola Peninsula, in the light of the new American system.

The author applies in this study the American system of classification which is based on the chemical properties of the rocks and permits a quantitative approach. 97 samples from various localities are analyzed chemically and mineralogically and classified accordingly.

**Copy seen:** DLC.

**22315. HACKMAN, VICTOR AXEL, 1866-** . Der gemischte Gang von Tuutijärvi im nördlichen Finnland. Helsingfors, 1914. 41 p., illus., tables. (Finland. Geologiska kommission. Bulletin, v. 8, no. 39) **Title tr.:** The mixed lode of Tuutijärvi in northern Finland.

The topography and general description of this mixed vein (about 66°30' N. 29°57'-30°07' E.), is given, followed by a mineralogical and chemical analysis of its components. A classification according to Osan's system is made. Bibliography (82 items).

**Copy seen:** DLC.

**22316. HACKMAN, VICTOR AXEL, 1866-** , and W. W. WILKMAN. Geologisk översiktskarta över Finland. Sektionen D6, Kuolajärvi. Helsinki, Geologiska kommission, 1926. 154 p. 34 illus., tables, 3 maps incl. 1 fold. **Title tr.:** Geological survey map of Finland. Section D6, Kuolajärvi.

Contains a descriptive text and map (1:400,000) of pre-Quaternary rocks of the Kuolajärvi area (ca. 67° N. 29° E.). Includes information on oldest gneiss and metabasites, ancient and recent gneiss and gneissic granites, schists, quartzites, etc., tectonics; industrial rocks and minerals. Summary in French.

**Copy seen:** DLC.

**22317. HACKMAN, VICTOR AXEL, 1866-** . Jakob Johannes Sederholm. biographic notes and bibliography. Helsinki, 1935. 29 p., front. (Geologiska kommission. Bulletin, 113)

Obituary of J. J. Sederholm, 1863-1934, director of the Geological Commission of Finland, 1893-1933. Sketch of his life, scientific interests, exploration of the Archaean and pre-Cambrian.

Contribution of the Commission towards exploitation of Finnish mineral resources under Sederholm, particularly iron ore fields in Lapland and nickel ores in the Petsamo-Tunturi region; list of his publications. **Copy seen:** DLC.

**22318. HACKMAN, VICTOR AXEL, 1866-** . Neue Mitteilungen über das Ijolithmassiv in Kuusamo. Helsingfors, 1899. 45 p., fold. plate, maps, diagrs., tables. (Finland. Geologiska kommission. Bulletin, v. 2, no. 11) **Title tr.:** New reports on the ijolite massif in Kuusamo.

Report on the location and form of the massif; detailed mineralogical and chemical analyses of its main component, ijolite; similar analyses of secondary components of the massif.

**Copy seen:** DLC.

**22319. HACKMAN, VICTOR AXEL, 1866-** . Über einen Quarzsyenitporphyr von Saariselkä im finnischen Lappland. Helsingfors, 1923. 10 p., illus., diagr. (Finland. Geologiska kommission. Bulletin, v. 11, no. 63) **Title tr.:** On a quartz syenite porphyry from Finnish Lapland.

**Contains** a description of the locality of the finds, their macro- and microscopical appearance and their mineralogical and chemical composition.

**Copy seen:** DLC.

**22320. HACKMAN, WALTER.** Die Coleophoriden Finnlands. (Notulae entomologicae, 1945. v. 25, no. 1-2, p. 1-63, plates 1-17, text maps 1-6) **Title tr.:** Coleophoridae of Finland.

**Contains** a critical revision of Finnish species of the moth family Coleophoridae, with data on systematics, morphology, biology and geographic distribution of this family (see text maps and table p. 12-14); caterpillars and their host plants arranged by families (p. 18-20); the system of Coleophoridae with subdivision into 12 groups; an enumeration of 81 species of *Coleophora*, including many native to northern regions; and a bibliography (63 items).

**Copy seen:** DLC; MH-Z.

**22321. HACKMAN, WALTER.** Contributions to the knowledge of Finnish spiders. (Societas pro fauna et flora fennica. Memoranda 1950-51, pub. 1952 no. 27, p. 69-79, illus.)

**Contains** a systematic list of about 50 species of spiders collected by the author

in southern and central Finland, together with a description of *Harcotes holmi* n. sp., (p. 69-71) which he found in 1949 in the Utsjoki region of Finnish Lapland.

**Copy seen:** MH-Z.

**22322. HACKMAN, WALTER.** Die in Finnland vorkommenden *Coleophora*-Arten der *caespitiella*-Gruppe. (Notulae entomologicae, 1941, v. 21, no. 1, p. 23-28, illus.) **Title tr.:** *Coleophora* species of the *caespitiella* group occurring in Finland.

**Contains** data on characteristics of *caespitiella* group of small moths of the genus *Coleophora* and descriptions of five species occurring in Finland, including *C. glaucicolella* from Kuusamo region and Sodankylä, Kemi Lappmark.

**Copy seen:** DLC; MH-Z.

**22323. HACKMAN, WALTER.** Lepidopterologiska iakttagelser i Utsjoki socken 1949. (Notulae entomologicae, 1950, v. 30, no. 1-2, p. 18-22, illus.) **Title tr.:** Observations on Lepidoptera in Utsjoki parish in 1949.

**Contains** a list of 46 lepidopters, observed by the author in the Utsjoki parish, northern Finnish Lapland in June-July 1949, and comparison with a list from the same region published by A. F. Nordman, in his *Bidrag om Utsjoki sockens lepidoptera* 1941-42, q. v.; another list of 31 species new to the fauna of that region and notes on some rare or otherwise interesting species.

**Copy seen:** DLC; MH-Z.

**22324. HACKMAN, WALTER.** The male of *Argenna prominula* Tullgren. (Entomologisk tidskrift 1950. Årg. 71, häft. 3-4, p. 165-67, illus.)

**Contains** a diagnosis of a male specimen of a spider, *Argenna prominula*, found by the author in northernmost part of Finnish Lapland at Tana River in the Utsjoki region. The type was described from a single female specimen from Karesuando, Swedish Lapland, collected by N. Bruce in 1935.

**Copy seen:** DA; MH-Z.

**22325. HACKMAN, WALTER.** Neue *Phthorimaea*-Arten (Lepid. Gelechiidae) aus Ostfennoskandien. (Notulae entomologicae, 1946. v. 26, no. 1-2, p. 59-64, illus.) **Title tr.:** New *Phthorimaea* species (Lepid. Gelechiidae) from eastern Fennoscandia.

**Contains** diagnoses of four new species of lepidopterous genus *Phthorimaea* of eastern Fennoscandia, including *P. brun-*

*neomaculella* from Kuusamo, *P. tengstromi* from Kuusamo and *Enontekis Lappmark* and *P. subvicinella* found in Inari Lappmark.  
**Copy seen:** DLC; MH-Z.

**22326. HACKMAN, WALTER.** Spindlar insamlade av W. Hellén och N. E. Saris i Kilpisjärvi. (Societas pro fauna et flora fennica. Memoranda, 1950-51, pub. 1952. no. 27, p. 65-67) **Title tr.:** Spiders collected in Kilpisjärvi by W. Hellén and N. E. Saris.

Contains a simple list of 44 species collected in 1949 and 1950, with data on habitat and local distribution in this section of Finnish Lapland.

**Copy seen:** MH-Z.

**22327. HACKMAN, WALTER.** Spindlar samlade under sommaren 1949 i Utsjoki socken. (Societas pro fauna et flora fennica. Memoranda, 1949-50, pub. 1951, v. 26, p. 86-93, text map) **Title tr.:** Spiders collected in Utsjoki parish in the summer of 1949.

Contains a systematic list of 99 species of spiders (in 15 families) collected near Tana River in Utsjoki parish, Finnish Lapland, by a group of students under direction of Dr. R. Frey and Dr. C. Cederkreutz, with data on habitat and distribution in Finland and other countries.

**Copy seen:** DLC; MH-Z.

**22328. HADAČ, EMIL.** Notulae ad floram Svalbardiae spectantes. Pragae, 1942. 5 p. (Studia botanica cehica, 1942. v. 5, fasc. 1-2) **Title tr.:** Notes on the flora of Svalbard.

Contains an annotated list of 14 flowering plants collected by the author in the summer of 1939 during his trip on West Spitsbergen, including diagnoses of *Ranunculus spitsbergenses* n. sp. (West Spitsbergen), *Pedicularis dasyantha* n. sp. (West Spitsbergen, Novaya Zemlya and probably polar Ural and northern Siberia), *Koenigia islandica arctica* n. var. and *Saxifraga caespitosa aurea* n. var. (West Spitsbergen and Moskovar 69° N. in northern Norway).

**Copy seen:** CaMAI.

**22329. HADMAN, BALLARD.** As the sailor loves the sea. New York, Harper & Brothers, 1951. 232 p. plates, maps on endpapers.

Contains an autobiographical account of an artist's life and adventures in Alaska since the late 1930's. It is illustrated by her drawings.

**Copy seen:** DLC.

**22330. HÄGG, RICHARD, 1877-** Kvärtära fossil från Spetsbergen insamlade av svenska expeditioner, II. (Geologiska foreningen, Stockholm. Förhandlingar, Mars-Apr. 1951. Bd. 73, p. 231-48) **Title tr.:** Quaternary fossils from Spitsbergen collected by Swedish expeditions, 2.

Represents the collections of Uppsala University Paleontological Institution and the Geological Institute of Stockholm High School. Of the 73 (mostly molluscan) species listed (according to localities on West Spitsbergen) nine species are boreal and now extinct in Svalbard waters because of lower temperature. Bibliography (11 items)

**Copy seen:** DGS; DLC.

**22331. HÄLLSTRÖM, G. G.** De apparitionibus aurorae borealis in septentrionalibus Europae partibus. (Finska vetenskaps-societeten, Helsingfors. Acta Societatis scientiarum fennicae, 1847. v. 2, p. 363-76, tables) **Title tr.:** On the appearances of the aurora borealis in the northern parts of Europe.

Contains a review of observations on the appearance of auroras made during varying periods between 1723-1843 at Oslo, Helsinki, Uppsala and some other European cities (St. Petersburg, London, Paris, Berlin). The more extensive observations contain monthly averages, maxima and minima, and other data on the phenomenon.

**Copy seen:** DLC.

**22332. HÄMÄLÄINEN, ALBERT, 1881-1949.** Beiträge zur Bildermagie. I. Bestattungsbräuche und Totenbilder bei den Ostyaken. (Verein für finnische Volkskunde. Mitteilungen, 1945. Bd. 3, no. 1-2, p. 15-16) **Title tr.:** Contributions to the magic of image, 1. Mortuary customs and images of the dead among the Ostyaks.

Contains as a supplement to author's *Menschen- und tierförmige Abbilder in Magie*, 1944, q. v.: quotation and comments on a description made by Grigorij Novitskij (q. v.) in 1715.

**Copy seen:** InU.

**22333. HÄMÄLÄINEN, ALBERT, 1881-1949.** Der hl. Stephan, der Apostel der Syrjänen. (Suomalais-ugrilainen seura. Toimituksia, 1950. v. 98, p. 53-72) **Title tr.:** St. Stephan, the apostle of the Zyrjans.

Contains sketch of the life of St. Stephan (mainly according to Epiphanes), and discussion of the more important

problems connected with his activity (especially his invention of the Zyryan script).

**Copy seen:** DLC; InU.

**22334. HÄMÄLÄINEN, ALBERT, 1881-1949.** Menschen- und tierförmige Abbilder in Magie und Kult der finnisch-ugrischen Völker. (Verein für finnische Volkskunde. Mitteilungen, 1944. Bd. 2, no. 3-4, p. 33-52, 8 illus.) **Title tr.:** Images in the shapes of men and animals used for purposes of magic and cult among the Finno-Ugric peoples.

*Contains* account of the Ostyak and Vogul custom, according to Karjalainen, of making images of the dead; these idols were kept at home for years, provided with food and beverage, and finally laid in the grave. A man's death was observed by his widow for a year at least. Other information is given also about the idols of Ob'-Ugrians.

**Copy seen:** InU.

**22335. HÄMÄLÄINEN, ALBERT, 1881-1949.** Ueber die Väterriten der finnisch-ugrischen Völker. (Verein für finnische Volkskunde. Mitteilungen, 1944. Bd. 2, no. 1-2, p. 1-16) **Title tr.:** On father-rites among the Finno-Ugric peoples.

*Contains* discussion of customs connected with couvade (father-rites at childbirth), with reference to the Finns, Lapps, Ob'-Ugrians, Yurak Samoyeds, and Yukaghirs.

**Copy seen:** InU.

**22336. HÄMÄLÄINEN, ALBERT, 1881-1949.** Ein uraltes finnisch-ugrisches Fischereigerät. (Finnisch-ugrische Forschungen, 1937. Bd. 24, p. 80-86, 3 illus.) **Title tr.:** A very old Finno-Ugric fishing implement.

*Contains* note on primitive fishing implement, an iron hook fastened to a stick, found among the Finns, Hungarians, Voguls, and Ostyaks.

**Copy seen:** DLC; InU.

**HÄMÄLÄINEN, ALBERT, 1881-1949,** see also Wallenius, K. M., & A. Hämäläinen. Lapin sota 1939-1940. 1940. No. 27256.

**22337. HAENICKE, ALEXANDRINE, compiler.** Rings um den Nordpol nach vorzüglichen Reisebeschreibungen. Stuttgart, J. F. Steinkopf, 1925. 303 p. plates, port. (Fahrten und Forschungen, Bd. 6) **Title tr.:** Around the North Pole, selected and edited from excellent travel accounts.

*Contains* an introductory chapter (p. 5-25) giving an historical outline of arctic exploration and problems, noting

the achievements of the principal explorers in various arctic regions. Then follow chapters (based on German editions of Nansen, Stefansson, Peary, Wegener, and a few others) on: the European arctic seas and their islands; Banks and Meighen Islands; Greenland; life of the Eskimo; conquest of the North Pole; difficulties of arctic explorers; arctic ice; auroras, arctic night, mirage etc.; animal life; the area of greatest inaccessibility of the Arctic.

**Copy seen:** DLC.

**22338. HÄNNINEN, KAARLO.** Drumlinmaismien järvistä ja reiteistä Oulankajoen alueella Kuusamossa. Helsinki, 1915. 153, 11 p. 10 plates (incl. 2 double and 5 fold.), illus. diags., tables. (Geografiska foreningen i Finland. Meddelanden, v. 11, no. 2) **Title tr.:** The lakes and chains of lakes in the drumlin landscapes of the Oulanka River area, in the Kuusamo district.

*Contains* account of the limnological investigation conducted on these lakes in northeast Finland (in the area 66°-66°30' N. 28°-29° E. approx.) during the summers of 1910-1914. Includes data on methods, topography of the 53 lakes studied; classification of the lakes originating in the glacial epoch; the lake-chains; depths, silting, shores; the effect of land-rises and tilts upon the lakes, etc. Bibliography (about 125 items). Summary in German (11 p. at end).

**Copy seen:** DLC.

**22339. HÄNNINEN, KAARLO.** Havaintoja Paanajärvestä. Helsingfors, 1912. 33, 4 p. illus., diags., fold. map. (Geografiska foreningen i Finland. Meddelanden, 1910-1912. v. 9, no. 4)

**Title tr.:** Observations on Lake Paana.

*Contains* a topographical account of this lake (66°17' N. approx. 30° E.) and its environs in the Finnish-Russian border region; its dimensions, area (23 sq. km.), depth, shores, water-level, geology (especially glacial formations), climate, flora of the lake, fishes and birds; inhabitants of the region. Bibliographical footnotes. Summary in German.

**Copy seen:** DLC.

**22340. HÄRME, MAUNU.** On the stratigraphical and structural geology of the Kemi area, northern Finland, Helsinki, Government press, 1949. 60 p. illus. tables, maps (incl. fold.) Academic dissertation to the University of Helsinki.

*Contains* results of field and laboratory

studies made during 1946-49 below 66° N. lat. on both sides of the Kemi River (about 30 km. on the east and west to the Torne River). Following an outline of earlier geological work in the area, author describes with chemical analyses, the supracrustal rocks, and the infracrustal rocks; gives account of the structural geology and stratigraphy, and a bibliography (53 items).

**Copy seen:** DLC.

**22341. HÄYRÉN, A. E.** Granbestånden i Finland. Helsingfors, 1899. 34 p. fold. map. (Geografiska föreningen i Finland. Meddelanden, v. 4, no. 7)

**Title tr.:** The spruce stands in Finland.

Contains a brief review of earlier studies, and two main sections dealing with spruce forests and spruce swamps. The genesis, growth and character of the ground vegetation of these forests are analyzed. On the basis of this vegetation, the author divides the forests into those of Finland and Lapland. The characteristic ground plants and epiphytes are listed. In the second section the genesis, growth and characteristics of spruce swamps are similarly discussed. On the basis of criteria used with the trees, the swamps too are classified as those of Finland and Lapland. Summary in German.

**Copy seen:** DLC.

**22342. HÄYRÉN, ERNST FREDRIK, 1878- .** Carragen-alger i Petsamo och Nordnorge. Helsingfors, 1939. 16 [2] p., 5 illus. (Bidrag till kännedom af Finlands natur och folk. Häfte 87, no. 2) **Title tr.:** Carragen algae in Petsamo and northern Norway.

Two species of these algae, their distribution and favored localities are described. Bibliography (11 items). Summary in German.

**Copy seen:** DLC.

**22343. HÄYRÉN, ERNST FREDRIK, 1878- .** Några *Ramalina*-arter i Finland. (Societas pro fauna et flora fennica. Menoranda 1950-51, pub. 1952. no. 27, p. 83-89, text map) **Title tr.:** Some *Ramalina* species in Finland.

Contains a phytogeographic study of three lichens of the genus *Ramalina*, including *R. polymorpha* and *R. subfarinacea* native to Finnish and Russian Lapland, with lists of localities for each species.

**Copy seen:** MH-Z.

**22344. HÄYRÉN, ERNST FREDRIK, 1878- .** Pummanginniemi i Petsamo

såsom naturskyddsområde. Helsinki, 1927. 23 p., 8 illus., on 2 plates. (Silva fennica:3) **Title tr.:** Pummanginniemi in Petsamo as a nature reservation.

The author suggests that this area, located at approx. 69° N. 32° E. on the Rybachiy Peninsula, be set aside as a natural park. He presents an account of its geology, topography, climate, common plants and animals, both inland and on seashore.

**Copy seen:** DLC.

**22345. HÄYRÉN, ERNST FREDRIK, 1878- .** Ragnar Hult, minnesord. (Terra, 1938. v. 50, no. 1-2, p. 65-82, port.) **Title tr.:** Ragnar Hult, memorial lecture.

Account of the life and work of the botanist Ragnar Hult, 1857-1899, his field studies in northern Sweden, Lapland, etc., contributions to knowledge of plant distribution and its significance for other scientific work; his geographic work, division of Finland into 24 landscape zones; his achievements as a teacher of geography in Finland. Summary in German.

**Copy seen:** DLC.

**22346. HAGEN, ASBJØRN.** Die norwegische Expedition nach Ost-Grönland 1933. Kurze Übersicht über die botanische Arbeit. (Polarforschung, 1951. Bd. 3, Jahrg. 21, p. 51-54) **Title tr.:** Norwegian East Greenland Expedition 1933. Brief summary of the botanical work.

The author, mycologist on the Norges Svalbard- og Ishavs-undersøkelser Expedition under A. Hoel in 1933, lists and discusses briefly the fungi and flowering plants encountered on Cape Linné, West Spitsbergen in early July, and (in more detail) the fungi resulting from his collections made on Eirik Raudes Land, East Greenland (71°30'-75°40'N.) during July-Aug.

**Copy seen:** DGS.

**22347. HAGEN, ASBJØRN.** Notes on arctic Fungi. I. Fungi from Jan Mayen. II. Fungi collected by Dr. P. F. Scholander on the Swedish-Norwegian Arctic Expedition 1931. Oslo, J. Dybwad, 1950. 25 p., sketch map. (Norsk polarinstitutt. Skrifter. Nr. 93)

Enumeration with notes, of (1) twenty species of parasitic micromycetes, of which 13 are new to the flora of Jan Mayen; with notes on wandering of species (transported by floating ice, wind, etc.); (2) 13 species from West Spitsbergen, with mention of two unidentifiable, badly preserved specimens. Bib-

liography (p. 11, 23 items; p. 24-25, 32 items). **Copy seen:** DGS.

**22348. HAGEN, ASBJØRN.** Uredinae from East Greenland. (Uredineana, 1946. t. 2, p. 62-68)

List, with references, host plants and localities, of 20 species of rusts from the author's collections made in Eirik Raudes Land, 1933 (71°30'-75°40' N.) and from southeastern Greenland collections of the Oslo University Botanical Museum. Bibliography (12 items). **Copy seen:** DA.

**22349. HAGEN, ASBJØRN.** Ustilagineae from East Greenland. (Sydowia; annales mycologici, 1947. Ser. 2, v. 1, p. 283-88)

List, with localities and host plants of 13 species of smuts from collections made by the author in Eirik Raudes Land (71°30' N.-75°40' N.) 1933, or from southeastern Greenland collections of the University of Oslo Botanical Museum. Bibliography (7 items).

**Copy seen:** DA.

**22350. HAGEN, HERMANN AUGUST, 1817-1893.** Beitrag zur Odonaten-Fauna des Russischen Reiches. (Stettiner entomologische Zeitung, 1858. Bd. 19, no. 1-3, p. 96-101) **Title tr.:** A contribution to Odonata fauna of the Russian Empire.

Contains a list of nine dragonflies collected by R. Maak in the valley of Vilyuy River ("Flusse Wilni") northeastern Siberia, and another list of 21 species from various regions of Russia, supplementary to the author's *Odonaten-Fauna d. Russischen Reichs*, 1856, q. v.

**Copy seen:** MH-Z.

**22351. HAGEN, HERMANN AUGUST, 1817-1893.** Hemerobidarum synopsis synonymica. (Stettiner entomologische Zeitung, 1866. Bd. 27, nr. 10-12, p. 369-462) **Title tr.:** Synopsis of Hemerobidae with synonymy.

Contains a synopsis of 56 genera of lace-winged flies of the fam. Hemerobiidae (p. 371-78) and a synopsis of the then known (751) species (p. 378-462) from various regions of the world, with literature citations, synonyms and place of origin. Includes several species from northern regions of Europe, Asia and North America. **Copy seen:** MH-Z.

**22352. HAGEN, HERMANN AUGUST, 1817-1893.** Die Odonaten-Fauna des Russischen Reiches. (Stettiner entomolo-

gische Zeitung, 1856. Bd. 17, no. 11-12, p. 363-81) **Title tr.:** Odonata fauna of the Russian Empire.

Contains historical notes on the study of dragonflies of Russia, description of material, including one species from Arkhangel'sk province, eight from Kamchatka Peninsula and some species from Ayan on the coast of the Okhotsk Sea and from "Russian America" (Alaska and Sitka, i. e. Baranof Island), with discussion of the elements and subdivisions of the fauna. A summary of this paper was published as *Odonates de la Russie*, 1856, q. v. and a supplementary paper as *Beitrag z. Odonaten-Fauna*, 1858, q. v. **Copy seen:** MH-Z.

**22353. HAGEN, HERMANN AUGUST, 1817-1893.** Odonates de la Russie. (Études entomologiques, 1856. t. 5, p. 52-59) **Title tr.:** Odonata of Russia.

Contains historical notes on the study of dragonflies and their distribution in Russia, a general sketch of Odonata fauna based partly on collections of V. Mochulskii and Ménétris, including eight species native to Kamchatka Peninsula and three from Alaska. **Copy seen:** MH-Z.

**22354. HAGEN, HERMANN AUGUST, 1817-1893.** Russlands Neuropteren. (Stettiner entomologische Zeitung, 1858. Bd. 19, no. 1-3, p. 110-22) **Title tr.:** Neuroptera of Russia.

Contains historical notes on the study of neuropterans in Russia and a systematic list of 89 species (30 are new to the science, but mostly undescribed and even not named). A few species are from northern Russia and Siberia; additional data on distribution in Europe, especially in Scandinavia, are supplied by the author. **Copy seen:** MH-Z.

**22355. HAGEN, INGEBRIGT SEVERIN, 1852-1917.** Forarbejder til en norsk løvmossflora. I. Orthotrichaceae. (Norske videnskabers selskab, Trondhjem. Skrifter, 1907, pub. 1908, no. 13, p. 1-100, illus.) **Title tr.:** Materials for the leafy moss flora of Norway, I. Orthotrichaceae.

Contains keys to the genera and species of the leafy moss family Orthotrichaceae and a critical revision of 37 species and some varieties and forms, with lists of localities arranged by counties; includes some species native to Nordland, Tromsø and Finnmark. This work was continued in 1909-1915 under the same title (pta.

II-XX); pt. XXI (see Hagen and Printz) was published posthumously in 1929.

**Copy seen:** DLC; MH-Z.

**22356. HAGEN, INGEBRIGT SEVERIN, 1852-1917.** Forarbejder til en norsk løvmosflora, II, Meeseaceae; III, Geogiaceae; IV, Disceliaceae; V, Neckeraaceae; VI, Pseudoleskeaceae; VII, Thuidiaceae; VIII, Leskeaceae. (Norske videnskabers selskab, Trondhjem. Skrifter, 1908, pub. 1909, no. 9, p. 1-122) **Title tr.:** Materials for the leafy moss flora of Norway, II-VIII.

*Contains* keys to the genera and species of seven families of leafy mosses and description of 44 species and some varieties, with critical notes and lists of Norwegian localities for each form. Some of the forms occur in the North. The preface, critical notes and some general descriptions are given in French.

**Copy seen:** DLC; MH-Z.

**22357. HAGEN, INGEBRIGT SEVERIN, 1852-1917.** Forarbejder til en norsk løvmosflora, IX, Grimmiaceae; X, Timmiaceae; XI, Schistostegaceae; XII, Hedwigiaceae. (Norske videnskabers selskab, Trondhjem. Skrifter, 1909, no. 2, p. 1-114, illus.) **Title tr.:** Materials for the leafy moss flora of Norway, IX-XII.

*Contains* keys to the families and species of four families of leafy mosses and descriptions of 50 species and some varieties, with critical notes and lists of Norwegian localities, including those in Nordland, Tromsø and Finnmark; partially in French.

**Copy seen:** DLC; MH-Z.

**22358. HAGEN, INGEBRIGT SEVERIN, 1852-1917.** Forarbejder til en norsk løvmosflora, XIII, Splachnaceae; XIV, Oedipodiaceae; XV, Leucodontaceae; XVI, Ceratodontaceae; XVII, Encalyptaceae; XVIII, Seligeraceae. (Norske videnskabers selskab, Trondhjem. Skrifter, 1910, no. 1, p. 1-108, illus.) **Title tr.:** Materials for the leafy moss flora of Norway, XIII-XVIII.

*Contains* keys to the genera and species of moss families listed above, and an enumeration of 51 species (in six families) with synonymy, Latin descriptions of five new varieties, descriptive and critical notes and data on distribution in Norway. Partially in French.

**Copy seen:** DLC; MH.

**22359. HAGEN, INGEBRIGT SEVERIN, 1852-1917.** Forarbejder til en

norsk løvmosflora, XIX. Polytrichaceae. (Norske videnskabers selskab, Trondhjem. Skrifter, 1913, pub. 1914, no. 1, p. 1-77, illus.) **Title tr.:** Materials for the leafy moss flora of Norway, XIX. Polytrichaceae.

*Contains* keys to the genera and species of moss family Polytrichaceae, and a critical revision of 22 species and some varieties (three varieties described as new), with extensive data on total distribution. Partially in French.

**Copy seen:** DLC; MH.

**22360. HAGEN, INGEBRIGT SEVERIN, 1852-1917.** Forarbejder til en norsk løvmosflora, XX. Dicranaceae. (Norske videnskabers selskab, Trondhjem. Skrifter, 1914, pub. 1915, no. 1, p. 1-192) **Title tr.:** Materials for the leafy moss flora of Norway, XX. Dicranaceae.

*Contains* keys to the subfamilies, genera and species of the moss family Dicranaceae, and an enumeration of 70 Norwegian species and some varieties, including descriptions of four new genera and eight new species, synonymy, critical notes and data on distribution in Norway, index to the species; includes many species native to northern Norway. Partially in French.

**Copy seen:** DLC; MH.

**22361. HAGEN, INGEBRIGT SEVERIN, 1852-1917, and H. PRINTZ.** Forarbejder til en norsk løvmosflora, XXI. Pottiaceae. (Norske videnskabers selskab, Trondhjem. Skrifter, 1928, pub. 1929, nr. 3, p. 1-96) **Title tr.:** Materials for the leafy moss flora of Norway, XXI. Pottiaceae.

*Contains* keys to the genera of the moss family Pottiaceae and an enumeration of 62 Norwegian species, including many native to northern Norway; this final part of Hagen's work was compiled, corrected and edited by H. Printz from the manuscript found among I. Hagen's papers after his death. Partially in French.

**Copy seen:** DLC; MH.

**22362. HAGEN, INGEBRIGT SEVERIN, 1852-1917.** Norges bryologi i det 18 de århundrede, [I]-II. (Norske videnskabers selskab, Trondhjem. Skrifter, 1897, no. 3, p. 1-195, plate; [II] 1913, pub. 1914, no. 7, p. 1-14) **Title tr.:** Norwegian bryology in 18th century, [I]-II.

*Contains* (in pt. I) historical notes on the 16 most important Norwegian bryologists of 18th century, with biographical

and bibliographical data and a list of about 150 mosses and liverworts described by them, including some species native to northern Norway; bibliography (37 items). Part II includes a revised list of 141 mosses in H. Strom's herbarium and some additions and corrections to data in the first part.

**Copy seen:** DLC; MH.

**22363. HAGEN, INGEBRIGT SEVERIN, 1852-1917.** *Schedulae bryologicae*. (Norske videnskabers selskabs, Trondhjem. Skrifter, 1897, no. 2, p. 1-30) **Title tr.:** Bryological leaflets.

**Contains** a list of 28 species of Norwegian mosses with critical notes and Latin descriptions of five new species; includes *Bryum retusum* n. sp. *B. hagenii*, *Ptychodium decipiens*, *P. pfundtneri* and *Hypnum condensatum*, native to northern Norway. **Copy seen:** DLC; MH-Z.

**22364. HAGEN, INGEBRIGT SEVERIN, 1852-1917.** *Tetraplodon pallidus* n. sp. (Norske videnskabers selskab, Trondhjem, Skrifter, 1893, pub. 1894. p. 75-76)

**Contains** a Latin diagnosis of an arctic moss, *Tetraplodon pallidus*, n. sp., found in the alpine region around Sulitjelma mountain in northern Norway.

**Copy seen:** MH.

**HAGEN, INGEBRIGT SEVERIN, 1852-1917, see also** Wallengren, H. D. J. *Förteckning å de Limnophilidae. 1884.* No. 27240.

**22365. HAGERUP, OLAF, 1889-** . Morphological and cytological studies of *Bicornes*. København, H. Hagerup, 1928. 26 p., illus. (Dansk botanisk arkiv, 1928-1931, pub. 1928. Bd. 6, nr.1)

**Contains** data on the development of the annual shoot and flower buds and reduction division in the pollen mother cells of 29 species in eight families of the order *Bicornes*; material includes seven species collected on the west and east coast of Greenland (65°-70° N.) and two in Alaska. **Copy seen:** DA; MH-A.

**22366. HAGERUP, OLAF, 1889-** . Nordiske kromosom-tal, I. (Botanisk tidsskrift, 1941. Bd. 45, hefte 4, p. 385-95, illus.) **Title tr.:** Northern chromosome number, I.

**Contains** a study of chromosome numbers of 31 flowering plants and vascular cryptogams, including four species native to Greenland. Summary in German.

**Copy seen:** DA; MH-A.

**HAGFORS, E. A. MARTIN, see** Böcker, C. C. *Om skogars skötsel i Norden. 1929.* No. 20771.

**22367. HAGGER, A. J.** Air navigation in high latitudes. (Polar record, Jan. 1950. v. 5, no. 39, p. 440-49, diagr., maps)

**Contains** remarks (by a participant in the *Aries* arctic flights May 1945) on general criteria for air navigation methods: need for speed and simplicity of techniques. Then follows discussion of special problems of polar navigation: (1) definition of direction; (2) methods of steering; (3) fixing and (4) plotting; sight reduction, choice of chart, mechanical aids to dead reckoning, and grid navigation. **Copy seen:** DLC.

**HAGMAN, H. H., see** Rosberg, J. E. *Begleitworte neuen Karte. 1907.* No. 25645.

**22368. HAGMAN, NILS, and T. J. KUKKÄMAKI.** The variations in the catch of salmon and the water levels of the rivers. With a mathematical treatment of the question by T. J. Kukkamäki. Helsinki, 1938. 45 p., tables, diagrs., figs. (Suomalainen eläin-ja kasvitieteellinen seura Vanamo. Eläintieteellisiä julkaisuja. Annales zoologici, 5:6)

**Author** discusses the factors believed to be responsible for the fluctuation in salmon catches in Scandinavia, Finland and generally. An account of the changes in the water levels in Finnish, Swedish and Norwegian rivers follows, together with an analysis of re-ascending salmon, year-classes, catches, etc. A mathematical treatment by the co-author concludes the study, the results of which indicate that the variations of catches depend upon the water levels of the rivers.

**Copy seen:** DLC.

**22369. HAIJ, JULIUS BERNHARD, 1859-1921.** Om de svenska formerna af släktet *Tetrix* Latreille. (Entomologisk tidskrift, 1909. Årg. 30, häft. 3-4, p. 181-91, illus.) **Title tr.:** On Swedish forms of the genus *Tetrix* Latreille.

**Contains** a critical revision of five Swedish species of the orthopterous genus *Tetrix* with descriptions of numerous varieties of these grouse locusts; including *T. fuliginosa* v. *aurivillii* and *T. kraussi* with five varieties from Swedish Lapland. **Copy seen:** DLC; MH-Z.

**22370. HAIJ, JULIUS BERNHARD, 1859-1921.** Über *Tetrix kraussi* Sauley. (Wiener entomologische Zeitung, 1908.

Bd. 27, häfte 4-5, p. 163-65, illus.)  
**Title tr.:** On *Tetrix kraussi* Sauley.

Contains data on systematics and synonymy of the extremely polymorphous orthopteran *Tetrix kraussi*, including a description of *T. kraussi* f. *intermedia*, native to Swedish Lapland.

**Copy seen:** MH-Z.

**22371. HAITES, TAEKE BINNERT.**  
Geologie en petrologie van het zuidoo-  
stelijke Artfjäll (zuidelijk Zweedsch-  
Lapland). Amsterdam, Holdert & Co.,  
1941. 131 p., illus., diags., 1 fold. map.  
**Title tr.:** Geology and petrology of the  
southeastern part of Artfjäll (southern  
Swedish Lapland).

"A monographic study of the geology  
and petrology of the crystalline schists  
... Three metamorphic series are dif-  
ferentiated, probably Ordovician and  
Silurian in age."—Geological Society of  
America, *Bibliography & index of geology*,  
1950. v. 15, p. 115. **Copy seen:** DLC.

**22372. HAKKARAINEN, AULIS E.**  
Lumi- ja jäätien käytön välistä  
suhteista. (Metsä - taloudellinen aika-  
kauslehti (Finska forstföreningen), 1950.  
v. 65, no. 12, p. 399-400) **Title tr.:**  
The comparative value of snow and ice  
roads.

Author discusses data gathered by  
work of Metsäteho (Forestry Research  
Association) during two years on 24 snow  
roads and 39 ice roads in Finland; and  
compares advantages of the two road  
types from viewpoint of cost and effi-  
ciency, for horse-drawn haulage of logs.

**Copy seen:** DA.

**22373. HAKKARAINEN, AULIS E.**  
Maan roudantumisesta tilapäistalvianto-  
iden rakentamisen kannalta. (Metsä-  
taloudellinen aikakauslehti (Finska  
forstföreningen), 1948. v. 63, no. 5, p.  
159-65) **Title tr.:** On the freezing of the  
soil with regard to building temporary  
winter auto roads.

Describes work by Keranen and Kok-  
konen in Finland (including northern  
areas) on the changes in temperature of  
the upper soil layers, depths of the frozen  
soil and the physical properties of frozen  
soil; also work of the Swedish scientist  
Beskow on frost phenomena and their  
effect on roads and railroads. Discussion  
of factors affecting the freezing of soil  
and depth of the frost on the basis of work  
by Kaitera and Simola, and data from  
Finnish agricultural engineers, building  
contractors and agricultural societies,

also work of Mitscherlich in Germany.  
Includes data from observations of  
Metsäteho research in Finland during the  
winter of 1947-48, notably the effects of  
freezing on temporary logging roads,  
relationship of temperature, groundwater,  
snowcover, etc., to frost action and frost  
depth on roads. Daily records were kept  
of the soil temperature at various depths  
also of frost depth. Remarks on effect of  
thinning and compaction of the snow-  
cover; results of laboratory work.

**Copy seen:** DLC.

**22374. HALDEMAN, JACK C.** Facili-  
ties and opportunities for research at the  
Arctic Health Research Center. (U. S.  
Public Health Service. Public health  
reports, 1951. v. 66, no. 29, p. 941-44)

Contains a general description of the  
Center, at Anchorage, and more detailed  
accounts of the staff, facilities, equipment  
and scope of work of the laboratories of  
physiology, biochemistry, animal-borne  
diseases, entomology, bacteriology, sani-  
tation; also of the library, instrument  
shop and animal house. The help of  
field observers, and facilities available in  
other institutions, including a hospital,  
are noted.

**Copy seen:** DLC.

**22375. HALDEMAN, JACK C.** Prob-  
lems of Alaskan Eskimos, Indians, Aleuts.  
(U. S. Public Health Service. Public  
health reports, 1951. v. 66, no. 29.  
p. 912-17)

Contains a brief review of the major  
health problems of Alaska: tuberculosis  
and its very high incidence, severity of  
epidemics, gastroenteric diseases, syphilis,  
alcoholism, crime, nutritional status, etc.  
Author stresses that most basic issues,  
like effect of climate, race, local diet, etc.,  
on disease, have not been studied and  
hence, area offers a good opportunity for  
basic research.

**Copy seen:** DLC.

**HALE, MASON E.,** see Baird, P. D.,  
& others. Baffin I. Exped. 1950; pre-  
lim. report. 1950. No. 20413.

**HALE, MASON E.,** see Ward, W. H.  
Glaciological studies Baffin I. Exped.  
1950, II, physics deglaciation. 1952.  
No. 27260.

**22376. HALEY, THEODORE R., and  
others.** Food reports of the Juneau Ice  
Field Research Project, Alaska, June 1949  
to February 1951. New York, American  
Geographical Society, 1951. 3 p. l., 39  
p. (Juneau Ice Field Research Project.  
Report no. 3) Mimeographed. Other

authors: M. G. Marcus, F. A. Small and M. M. Miller.

Contains a report based on summer operations of 1948 (20 days), 1949 (100 days), 1950 (110 days), and winter operations of 1951 (32 days), with 6 to 31 men participating. Data are presented on food requirements, storage, packaging, transportation (by aircraft, with parachute and free-drop); detailed breakdown is given of kinds and amounts of food and condiments; suppliers, etc. Dietetic considerations and recommendations are made regarding foods used.

**Copied seen:** CaMAI.

**22377. HALEY, THEODORE R., and D. L. MCCOLLESTER.** Medical reports Juneau Ice Field Research Project, Alaska, June 1949 to February 1951. New York, American Geographical Society, 1951. 2 p. l., 38 p. (Juneau Ice Field Research Project. Report no. 4) Mimeographed.

Contains reports of the 1949 and 1950 field seasons and the 1951 winter party, prepared for use by future expeditions operating in a similar environment. The reports present information on medical supplies and equipment; health of personnel including physical fitness tests; treatment of frostbite and burns, etc.; medical logs; recommendations for the future regarding equipment, medicines, sanitation and food use; appendices provide detailed lists of medicines and medical equipment received and stored, blood types of the personnel, etc.

**Copied seen:** CaMAI.

**22378. HALICKI, BRONISLAW.** O lodowcach. (Warsaw. Muzeum ziemi. Wiadomości, 1948, pub. 1949. t. 4, p. 77-111, illus.) **Title tr.:** Glaciers.

Discussion of basic problems of development and existence of glaciers, particularly accumulation, ablation, movement and oscillations; analysis of glaciation and ice ages, presenting the thesis that glaciation in high mountains and circumpolar regions has been constant throughout geologic history.

**Copied seen:** DGS.

**HALL, JOHN F., see** Fetcher, E. S., & others. Physiological basis internal ventilation clothing. 1948. No. 21775.

**HALL, JOHN F., see also** Rapaport, S. I., & others. Control of blood flow to extremities. 1949. No. 25363.

**HALL, JOHN F., see also** Rapaport, S. I., & others. Physiological protection extremities. 1948. No. 25364.

**22379. HALL, N. M.** Water and sewerage systems for Yellowknife. (Engineering journal, Mar. 1951. v. 34, p. 164-70, illus., diagrs.)

Descriptions in some detail of both systems and their construction, accompanied by information (incl. plan) on the old and new (1945) town sites which lie over permafrost and offer problems in engineering.

**Copied seen:** DGS; DLC.

**22380. HALL, V. E., and F. A. ELLIS.** Mechanism of magnesium hypothermia in rabbit. (Federation proceedings, Mar. 1950. v. 9, p. 55)

Contains a brief report giving the results of magnesium chloride injections into normal and cold stimulated rabbits; the fall in body temperature and oxygen consumption in these rabbits during cold exposure is due largely to a reduction in heat production "attributable to an interference with the nervous mechanism of defense against cold."

**Copied seen:** DLC.

**HALL, V. E., see also** Field, J., & V. E. Hall. Physiological effects of heat & cold. 1944. No. 21781.

**22381. HALL, WENDY.** Resettlement in Finland. (Geographical magazine, Jan. 1952. v. 24, no. 9, p. 419-28, illus., maps)

Contains introductory remarks on the wartime devastation of Finnish Lapland, followed by an account of the resettlement of displaced and evacuated populations there, with information on the causes of the displacements; numbers, occupation and character of the displaced people. Post-war resettlement and rehousing in Lapland, the rebuilding of Rovaniemi, rural resettlement in Lapland; problem of the Lapps, etc., are discussed.

**Copied seen:** DLC.

**22382. HALLONBLAD, BRITTA.** Kestävän lumipeltteen tulosta Suomessa. Helsinki, 1927. 10 p., plate, tables. (Suomalainen tiedeakatemia. Annales Academiae scientiarum fennicae, A28:2) **Title tr.:** On the coming of the lasting snow cover in Finland.

On the basis of data from about 140 observation stations during the period, winter 1896/97 to 1910/11, author determines the mean beginning date of the

lasting snow cover in various sections of Finland including the far North and shows on map these data in relation to 0° C. isotherm. Summary in German.

**Copy seen:** DLC.

**22383. HALME, AINO.** Über die Nordlichtbeobachtungen in Finnland in den Jahren 1901-1930. Helsinki, 1935. 13 p., tables, diagrs. (Suomalainen tiedeakatemia. Annales Academiae scientiarum fennicae, A41:7) **Title tr.:** On the auroral observations in Finland during the years 1901-1930.

The observations made at 34 stations (including Kuusamo, Sodankylä and Inari as the most northerly), deal with the distribution of northern lights over day and night periods, over the year and successive years, and with their geographic distribution and relation to magnetic conditions.

**Copy seen:** DLC.

**HALME, ERKKI,** *see* Hustich, I., ed. Recent climatic fluctuations Finland; symposium. 1952. No. 22755.

**22384. HALPERN, JOEL MARTIN.** Arctic gold. (Rocks and minerals, Mar.-Apr. 1951. v. 26, p. 115-20, illus., sketch map)

Account for the layman of modern prospecting and placer gold mining, as seen near Deering on the Seward Peninsula in Alaska, with remarks on present-day conditions of that town and the natural beauties of the region.

**Copy seen:** DGS.

**22385. HAMBERG, AXEL, 1863-1933.** Die Gletscher des Sarekgebirges und ihre Untersuchung; eine kurze Übersicht. Stockholm, 1910. 26 p. 10 illus., 4 plates (1 fold.) incl. 2 maps. (Sweden. Geologiska undersökning. Afhandlingar och uppsatser. Ser. Ca, no. 5, pt. 3) **Title tr.:** The glaciers of the Sarek Mts. and their investigation; a short survey.

The Sarek Mts. (approximately 67°20' N. 18° E.) north of the Sulitelma range) cover an area of about 2000 km<sup>2</sup> in Swedish Lapland and comprise about 100 glaciers. The annual accumulation of snow on the Mikka Glacier was measured over a six-year period (1904-1909) by means of a new accumulation meter (fig. 9-10). Methods of measuring ablation and rate of flow are discussed. The Sarek Glaciers advanced from 5 to 6 m. during 1897-1909.

**Copy seen:** DLC.

**22386. HAMBERG, AXEL, 1863-1933.** Kurze Übersicht der Gletscher Schwe-

dens. Stockholm, 1910. 10 p. fold. map. (Sweden. Geologiska undersökning. Afhandlingar och uppsatser. Ser. Ca, no. 5, pt. 6) **Title tr.:** Short survey of Sweden's glaciers.

Contains discussion of the distribution, climatology, and morphology of Sweden's glaciers; changes in their dimensions since the end of the 1890's, and a survey map (scale 1:1 million).

**Copy seen:** DLC.

**22387. HAMBLETON, JOSEPHINE.** The raven, frog, and bear totem pole, a masterpiece of Haida art. (Canada. National Museum. Bulletin 123, its Annual report for 1949-50, pub. 1951, p. 80-83, illus.)

Contains an explanation of the symbols in this totem pole in Prince Rupert Museum, notes on the life and talent of its carver, Isaac Chapman, and on the technique of carving argillite, the slate of Queen Charlotte Islands of which these lustrous totems were made.

**Copy seen:** CaMAL.

**22388. HAMEL, GEORGE F.** The Army Arctic Indoctrination School, a key subject in a key area in these times. (Armor, Sept.-Oct. 1950. v. 59, no. 5, p. 43-46, illus.)

Contains a description of the school initiated in 1947 at Big Delta, Alaska; its organization; purpose: to conduct two courses yearly beginning winter 1948-49 for officers, stressing orientation on arctic winter conditions, survival and operational techniques, and tactics; the locality is briefly characterized as a site for the school, and the latter's work, particularly field work during the winters of 1948-49 and 1949-50, outlined.

**Copy seen:** DLC.

**22389. HAMILTON, R. A.** The British North Greenland Expedition, 1952-54. (Nature, May 3, 1952. v. 169, p. 727-28)

"An examination of the structure and petrology of the land forms throughout Queen Louise Land will be made. An icecap station will be established (78° N. 40° W.), from which the Greenland icecap will be surveyed, and at which meteorological, gravimetric and glaciological work will be carried out. The relation derived by Nye, that the thickness of a moving ice sheet is inversely proportional to its surface slope, irrespective of the slope of the bed of the icecap will be verified. The thickness of the ice sheet will be seismically measured, as well as

accumulation, ablation, and glacier movement."—SIPRE. **Copy seen:** DLC.

**22390. HAMILTON, RODGERS D.** Food of young pintail duck, *Anas acuta*, in Alaska. (Auk, July 1950. v. 67, p. 383)

Record of downy young pintail from Kobuk River, with "stomach packed full of mosquito larvae". Some remarks on importance of this for mosquito control.

**Copy seen:** DSI-M.

**22391. HAMMER, MARIE SIGNE (JORGENSEN), 1907-** . The Oribatid and Collembola fauna in some soil samples from Søndre Strømfjord. (Entomologiske meddelelser, 1952. Bd. 26, hefte 5, p. 404-414, illus.)

Contains the result of an ecological investigation of Oribatid and Collembola fauna in soil samples from selected plant associations, taken in the Søndre Strømfjord region (66°-67° N) of southwest Greenland during the Botanical Expedition under Dr. T. W. Böcher in the summer of 1946. Notes on the vegetation of each locality are given, and a tabulation of 54 mites (oribatids and collemboles) and their host plants (p. 411-14).

**Copy seen:** MH-Z.

**22392. HAMMERICH, L. L.** Kleinschmidt centennial I: The cases of Eskimo. (International journal of American linguistics, 1941. v. 17, no. 1, p. 11-22)

Contains a survey of a new theory of the Eskimo cases: absolutive, superordinative, subordinative, and duplex cases. Most examples given are from Greenlandic Eskimo, the case system, however, is essentially the same in the whole Eskimo area.

**Copy seen:** DLC.

**22393. HAMMERICH, L. L.** Kleinschmidt centennial VI: Can Eskimo be related to Indo-European? (International journal of American linguistics, 1951. v. 17, no. 4, p. 217-223)

Contains critical considerations of theories of Uhlenbeck and Thalbitzer who agreed upon some 60 cases of verbal similarities showing relations of some kind or other. The author concludes that the question of linguistic relationship of Eskimo to Indo-European could not till now be answered affirmatively, and cooperation of many linguists will be needed to solve the problem definitely because American-Indian and Paleo-Asiatic languages are also involved.

**Copy seen:** DLC.

**22394. HANDLEY, CHARLES OVERTON, 1897-** . The brant of Prince Patrick Island, Northwest Territories. (Wilson bulletin, Sept. 1950. v. 62, p. 128-32)

Notes on specific or subspecific status of *Branta bernicla bernicla* and *B. b. hrota* and description of their intimate association on breeding grounds of Prince Patrick Island, with no apparent interbreeding. Bibliography (9 items).

**Copy seen:** DSI-M.

**22395. HANNA, G. DALLAS, 1887-** , and others. Insects of the Pribilof Islands, Alaska. (California Academy of Sciences. Proceedings, 1921. 4th ser., v. 11, no. 14, p. 153-95, 7 text fig.)

Contains an introduction by Dr. Hanna (p. 153-55) on the geography of the area and earlier studies of its insects, followed by accounts on particular insect groups as listed below, each of which appears in this bibliography under its author's name. The material was collected during the summer of 1920 by G. D. Hanna. Bibliographical footnotes throughout.

VAN DYKE, E. C. Coleoptera, p. 156-66.

VAN DUZEE, M. C. A new species of the dipterous family Dolichopodidae, p. 167-68.

COLE, F. R. Diptera, p. 169-77, 7 fig.

MALLOCH, J. R. Dipterous insects of the family Anthomyiidae, p. 178-82.

ALEXANDER, C. P. Dipterous insects of the family Tipulidae, p. 183-84.

FRISON, T. H. Hymenopterous insects of the family Bremidae, p. 185-87.

MACGILLIVRAY, A. D. New saw-flies, p. 188-92.

VAN DUZEE, E. P. Orthoptera, Neuroptera, Hemiptera and Lepidoptera, p. 193-95.

**Copy seen:** DSI-M.

**22396. HANNEMANN, M.** Abschluss der Drift der "Sedow" im Nordpolarmeer. (Petermanns geographische Mitteilungen, 1940. Bd. 86, p. 98) **Title tr.:** The end of the drift of the *Sedov* in the north polar sea.

Contains note on the last stage of the *Sedov's* 1937-40 drift across the Arctic Basin: the ice-breaker reaching its most northerly point (86°46' N. 47°55' E.) Aug. 31, 1939; its ice damage; meeting with its relief, ice-breaker *Stalin*, Jan. 6, 1940, off northeast Greenland, to be towed towards Cape Farvel.

**Copy seen:** DLC; InU.

**22397. HANNIKAINEN, LAURI.** Tenojoen varsilta ja Ruijasta. (Terra, 1914. 26, p. 285-310, illus.) *Title tr.:* The Teno River area and Norwegian Lapland (Finnmarken).

Contains biological and topographical data gathered during a summer (1913) trip by foot and boat through Lapland to the arctic coast, across to Skarsvåg about 71°08' N. 25°53' E. (Europe's northernmost town) and Nordkap 71°11' N. 25°40' E. Includes notes on weather, snow, and ice, and photographic illustrations of geographic features and land forms.

*Copy seen:* DLC.

**HANSELMAN, RUSSELL,** *see* Fell, E. H., & R. Hanselman. Prevention shock & death by pressure dressing dogs. 1943. No. 21755.

**HANSEN, B. LYLE,** *see* Bader, H., & others. Preliminary investigation physical properties snow. 1951. No. 20392.

**HANSEN, GERHARD HENRIK AMAUER, d., 1912,** *see* Friele, H., & G. H. A. Hansen. Bidrag om norske Nudibranchier. 1876. No. 21954.

**22398. HANSEN, HENRY PAUL,** 1907- . Postglacial forests along the Alaska Highway in British Columbia. (American Philosophical Society. Proceedings, Oct. 1950. v. 94, p. 411-21, illus. (incl. sketch map, diags.))

Study of peat sections, including pollen analyses, and characterization of the forest vegetation as exposed by the sections.

*Copy seen:* DLC.

**22399. HANSEN, PAUL MARINUS,** 1901- . Jagt og fiskeri. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 2, p. 59-82, illus., incl. map) *Title tr.:* Hunting and fisheries.

Notes on the sea and land mammals and birds which have supplied Greenland hunters with game and trade until recent years; the decline of hunting; the fisheries industry which has supplanted it, treated according to type of fish (cod, shark, halibut, etc.)

*Copy seen:* DSI-M.

**22400. HANSEN, PAUL MARINUS,** 1901- . North-western area. The fish. West Greenland cod [and] halibut. (International Council for the Study of the Sea. Annales biologiques, 1948, pub. 1949. v. 5, p. 34-36, incl. tables)

Age composition in percentages and average lengths of different age-groups

of cod in two areas, lying north and south of 62°30' N. lat. parallel; with note on halibut age-lengths based on a few otoliths taken in 1947.

*Copy seen:* DF; DSI-M.

**22401. HANSEN, PAUL MARINUS,** 1901- . Studies on the biology of the cod in Greenland waters. Copenhagen, 1949. 77 p., illus. (diags. and map diags.) map. (International Council for the Study of the Sea. Rapports et procès verbaux. v. 123)

"A summary of what we know at present regarding the biology of the cod in Greenland waters . . . based on continuous investigations over several years undertaken by the Greenland Administration with 'Kommissionen for Danmarks Fiskeri- og Havundersøgelser'." Introductory material on occurrence of cod and hydrographic conditions in West Greenland waters; note on recent changes in marine fauna of the area; and full discussion of spawning and development, growth and food, races, migrations and fluctuations, and the relative importance of the various year-classes of cod in the Greenland fisheries. Bibliography (88 items).

*Copy seen:* DI.

**HANSEN, PAUL MARINUS, 1901-** . *see also* Rasmtussen, B., & P. M. Hansen. Observations cod cruise of Vardholm 1949. 1950. No. 25372.

**22402. HANSON, HAROLD CARSTEN,** 1917- , and ROBERT H. SMITH. Canada geese of the Mississippi flyway, with special reference to an Illinois flock. (Illinois Natural History Survey. Bulletin, Mar. 1950. v. 25, p. 67-210, illus., diags. maps)

Study of *Branta canadensis interior* which breed inland from the west coast of James Bay and the south coast of Hudson Bay and which winter in the Mississippi valley, particularly in Horseshoe Lake Game Refuge and environs in the southern tip of Illinois. The study is based on work in this area, on records of the Jack Miner Sanctuary at Kingsville, Ontario, and on reconnaissance in the breeding grounds themselves between Severn and Albany Rivers in the James-Hudson Bay region of northern Ontario. Following an outline of the materials and methods of the investigation, authors discuss the flyway concept: the 4 major lanes of migratory bird travel in North America; eastern populations of the Canada goose; its Hudson-James Bay breeding

range (with data on muskeg types); migrations; winter concentrations in various sanctuaries, etc., noting effect of the Horseshoe Lake Wildlife Refuge in attracting a large proportion (up to 50 per cent) of Canada geese wintering along the Mississippi. Description and data are presented on goose behavior and hunting losses; history of hunting in Illinois; annual bag in the Hudson-James Bay area and elsewhere; differential hunting losses; losses by crippling and other mortality factors; productivity; population survival; protection of the species, etc. *Appendices* offer (1) ecological data on the southeast population and (2) classification of the Canada geese of the genus *Branta*. Bibliography (about 120 items).

*Copy seen:* DSI-M.

**22403. HANSON, HAROLD CARSTEN, 1917-** . A morphometrical study of the Canada goose, *Branta canadensis interior* Todd. (Auk, Apr. 1951. v. 68, p. 164-173, tables)

Report on a study of 414 geese trapped in the autumn of 1943 and believed to be a random sample of the Horseshoe Lake (Ill.) flock. The breeding grounds of this flock lie in the muskeg country of northern Ontario, between the Albany and Severn Rivers. Sex and age of the examined specimens were determined. Length distributions are recorded for the wing, tail and exposed culmen as well as differences associated with sex and age. Variability-taxonomy relations, and comparisons with other samples and races, are discussed. Bibliography (11 items).

*Copy seen:* DAI; DSI-M.

**22404. HANSON, HAROLD CARSTEN, 1917-** . A new race of red-backed vole (*Clethrionomys*) from the Barren Grounds of Canada. (Journal of mammalogy, Nov. 1952. v. 33, p. 500-502)

*Contains* a description of *Clethrionomys rutilus washburni*, n. ssp. from the Perry River region, Mackenzie District, a species which probably ranges the entire Barren Grounds. Data include range, diagnosis, measurements, differential diagnosis, etc.

*Copy seen:* CaMAI; DGS.

**HANSON, HAROLD CARSTEN, 1917-** , see also Cottam, C., & H. C. Hanson. Food habits birds & mammals. 1933. No. 21295.

**22405. HANSON, HERBERT CHRISTIAN, 1891-** . Agriculture in the

Matanuska valley, Alaska. Washington, D. C., U. S. Dept. of the Interior, Division of Territories and Island Possessions, [1944] 12 p., front. (map). Process print.

The general manager of the Alaska Rural Rehabilitation Corporation briefly summarizes the growth of the valley colony, 1935-43, and describes the location, extent, climate, topography, soil, crops, livestock and miscellaneous features of the Matanuska valley; explains how farms or land may be acquired, how to clear land, what a settler should bring with him, and the agencies established in the valley.

*Copy seen:* DI.

**22406. HANSON, HERBERT CHRISTIAN, 1891-** . Characteristics of some grassland, marsh, and other plant communities in western Alaska. (Ecological monographs, Oct. 1951. v. 21, no. 4, p. 317-78, illus., tables)

*Contains* results of ecological and phytogeographic investigations carried out during 1949-50, supported by Arctic Institute of North America with funds provided by U. S. Office of Naval Research. The report covers a large number of plant communities of western Alaska, from Kodiak Island in the southwest to Kotzebue in the northwest and Big Delta in the northeast. These communities include coastal strand and salt-marsh vegetation, several kinds of grassland, upland marshes and bogs, forest and shrub; dwarf shrub-lichens, *Dryas* and *Luetkea* communities. Some of the communities are complexes or mosaics of micro-communities. The vegetation in representative stands is analyzed according to species, cover, frequency, succession, etc. The soil profiles in most of the stands are described. The similarity of many communities with those in other regions, especially Norway, is stressed. A classified list of the communities investigated is given in the table of contents, and in the appendix (p. 376-78) is a check-list of species tabulated according to the 16 classes of communities. Bibliography (about 70 items).

*Copy seen:* DAI; DSI-M.

**22407. HANSON, HERBERT CHRISTIAN, 1891-** . Some relationships of plant communities to physical environment in Alaska. (Arctic, Sept. 1951. v. 4, no. 2, p. 138-39)

News note on studies of plant communities of western Alaska and their relationships to the substratum, carried out in the summers 1949 and 1950.

Major communities, such as forest, marsh, bog, tundra, etc., were readily recognized. Greater difficulties were encountered with minor and micro-communities. Stands in widely separated areas showed striking similarities among themselves and with those of far-off countries (Norway, etc.). Some of these plant communities are briefly described.

**Copy seen:** DLC.

**22408. HANSON, HERBERT CHRISTIAN, 1891-** . Vegetation and soil profiles in some solifluction and mound areas in Alaska. (Ecology, Oct. 1950, v. 31, no. 4, p. 606-630, illus., tables, diagrs.)

*Contains* results of an investigation in 1949 of grassland and other types of vegetation in five localities, (1) Eagle Summit, (2) near Healy, (3) in Mount McKinley National Park, (4) Craigie Creek valley, and (5) near Kotzebue. The term solifluction and occurrence of the phenomenon in Alaska, vegetation types and their relation to solifluction are discussed.

"Vegetation and soil profiles are described in several solifluction and mound, or hummock, areas. The point-contact method was used to obtain quantitative data on the degree of cover and the frequency, or dispersion, of the species in each stand studied. The ground in the solifluction areas was hummocky and saturated with water. Peat and silt layers alternated with increasing depth, the peat indicating former surface horizons. The depth to permafrost varied from about 10-25 in. and was determined by the angle and direction of slope and the amount of insulating plant cover. The role of plants in the formation, building, and disintegration of mounds is described. Factors influencing solifluction and mound formation are degree and direction of slope, abundance of water, upper ground horizons saturated with water, a fine silt or clay horizon below the saturated layer, forces arising from freezing and thawing, an underlying layer of frozen ground or hard material, and the presence of boulders, ridges, vegetation, and other obstacles."—SIPRE. Bibliography (39 items).

**Copy seen:** DLC.

**22409. HANSSEN, HANS KRISTIAN, 1860-1948.** *Atheta cinnamoptera* Thoms. Et bidrag til artens opklaring. (Norsk entomologisk tidsskrift, 1933. Bd. 3, hefte 4, p. 279-83, illus.) **Title tr.:**

*Atheta cinnamoptera* Thoms. A contribution to the elucidation of the species.

*Contains* a comparative morphological study of two rove beetles, *Atheta cinnamoptera* and *A. picipennis*; the first species is distributed throughout Norway.

**Copy seen:** DA; MH-Z.

**22410. HANSSEN, HANS KRISTIAN, 1860-1948.** *Datomica* og *Microdota* Muls. & Rey. De nordiske arter. (Norsk entomologisk tidsskrift, 1935. Bd. 4, hefte 1-2, p. 31-53) **Title tr.:** Norwegian species of *Datomica* and *Microdota* Muls. & Rey.

*Contains* tables for the determination of nine Norwegian species of the subgenus *Datomica* of the coleopterous genus *Atheta* and 14 of the subgenus *Microdota*, descriptive notes on them and data on habitat and distribution; includes at least three species native to northern Norway.

**Copy seen:** DA; MH-Z.

**22411. HANSSEN, HANS KRISTIAN, 1860-1948.** Et og andet om *Atheta*. (Norsk entomologisk tidsskrift, 1930. Bd. 2, hefte 6, p. 330-35) **Title tr.:** One thing and another on *Atheta*.

*Contains* some data on morphology of rove beetles of the genus *Atheta* and critical notes on and comparison of *A. excelsa*, native to Finnmark and Sydvaranger, with *A. mortuorum*.

**Copy seen:** DA; MH-Z.

**22412. HANSSEN, HANS KRISTIAN, 1860-1948.** Zwei neue Atheten (aus dem nördlichen Norwegen). (Norsk entomologisk tidsskrift, 1932. Bd. 3, hefte 1-2, p. 72-78) **Title tr.:** Two new *Atheta* from northern Norway.

*Contains* diagnoses of two new species of coleopterous genus *Atheta*, *A. (Metaxya?) ripicola* and *A. (Dimetrola) picipennoides* n. sp. collected by the author and A. Strand in Målselv, northern Norway, with dimensions and comparison with some related species of beetles.

**Copy seen:** DA; MH-Z.

**HANSSEN, HANS KRISTIAN, 1860-1948, see also** Strand, A., & H. K. Hanssen. Målselvens Koleoptera. 1932. No. 26468.

**HANSSEN, HANS KRISTIAN, 1860-1948, see also** Strand, A. Rettelser til "Målselvens Koleoptera." 1936. No. 26476.

**22413. HANSTEIN, CHRISTOPHER, 1784-1873.** Remarques préliminaires sur les expéditions anglaises de 1818. (Jour-

nal des voyages, découvertes et navigations modernes, 1819. T. 3, p. 145-51) **Title tr.:** Preliminary remarks on the British expeditions of 1818.

Discussion of the probable behavior of magnetic needle and prismatic compass in the Baffin Bay area and the author's theory of two magnetic north poles. **Copy seen:** DLC.

**22414. HARANG, LEIV, 1902-** . The aurorae. New York, Wiley, 1951. x, 166 p. 152 fig., 132 tables, equations. (The International astrophysics series, v. 1)

"This is the first comprehensive text on the aurora in the English language since the translation of Fritz's work in 1883. The eight chapters take up in order (1) Forms, distribution, frequency, height, photography and calculation of pairs of plates; (2) Height statistics in various regimes and for various types; (3) Spectra: intensity and identification of lines, their interpretation with respect to temperature and composition of upper atmosphere; (4) Sodium D-lines, twilight and night sky luminescence; (5) Magnetic storms and auroras; (6) Corpuscular theory; (7) The physics of the upper atmosphere - density, absorption and emission, luminosity, relation to geographical height, etc., and (8) The ionosphere and the aurora and relation to terrestrial magnetic perturbations. The book is profusely illustrated with photographs, recorder records, schematic diagrams, graphs, charts and other illustrative material; has a good bibliography and brief author and subject indexes. It is based on the very latest observational material and theory."—*Meteorological abstracts and bibliography*, Mar. 1953. v. 4, no. 3, p. 275. Bibliography (115 items), p. 159-63. Review by W. Petrie in *American journal of physics*, Mar. 1953. v. 20, no. 3, p. 187-88.

**Copy seen:** DLC; DWB.

**22415. HARANG, LEIV, 1902-** . Das Polarlicht und die Probleme der höchsten Atmosphärenschichten. Leipzig, Becker & Erler, 1940. viii, 120 p., illus., maps. (Probleme der kosmischen Physik, Bd. 20) **Title tr.:** The northern lights, and the problem of the highest layers of the atmosphere.

A concise, scientific account of auroras (p. 1-79): their appearance, geographic distribution, extent, direction, height, connection with earth-magnetism, etc.; the light spectrum and its interpretation;

theories of the northern lights (with discussion of Birkeland and Störmer); physical condition of the atmosphere in the area characterized by auroras; other phenomena of the night sky in the auroral region; investigation of tides in highest layers of atmosphere in connection with northern lights; the sun and auroras. The Ionosphere (p. 80-106). Bibliography (117 items). **Copy seen:** DLC.

**22416. HARBOE, E. G.** Die Erdbeben-observatorium auf der Disko-Insel. (Beiträge zur Geophysik, 1912, 1915-18. Bd. 11, kleine Mitteilungen, p. 9-28, tables, diagrs.; Bd. 14, kleine Mitteilungen, p. 24-31, tables) **Title tr.:** The seismic observatory on Disko Island.

Description of the location and instrumentation of the observatory, with tabular data on distant and local disturbances, Oct. 1907-July 1909, and on local microseisms of the same period; in the continued section (p. 24-31) are data for Sept. 1910-May 1912, and some astronomical observations.

**Copy seen:** DGS.

**22417. HARDIN, JOHN R.** Engineers rush Alaskan defenses. (Military engineer, Jan. 1942. v. 34, p. 1-3, illus.)

General notes on difficulties encountered in construction of roads and airfields in Alaska: muskeg, permafrost, heavy rain, extreme cold, and problems of supply due to long distances and slow transportation.

**Copy seen:** DLC.

**22418. HARDING, A. E. BERYL.** A state practice in Swedish Lapland. (Lancet, Sept. 10, 1949. v. 257, p. 477-78)

Contains an outline of medical practice of state doctors in Sweden as compared with that in England, based on the author's observation of procedures in the Lapland district of Vilhelmina, served by two doctors and a well equipped hospital in the village of Vilhelmina. The organization of the practice is described: doctors' responsibilities, qualifications, particularly for this northern work, dispensary, clinic (dental, maternity), hospital facilities, work with tuberculosis, nursing service, doctor's salary and patients' payments, etc.

**Copy seen:** DLC.

**22419. HARDY, JAMES D.** Heat transfer. (In: Newburgh, L. H., ed., Physiology of heat regulation and the science of clothing, 1949. p. 78-108, diagrs., tables)

Contains a physical mathematical treatise on the heat exchange between the human body and its environment. Radiation, conduction; convection and evaporation are summarized and practical suggestions offered as to physiological and physical measurements required for determining these phenomena; value and limitations of methods, etc. are noted. Bibliography (39 items).

**Copy seen:** DLC.

**22420. HARDY, JAMES D.** Physiological responses to heat and cold. (Annual review of physiology, 1950. v. 12, p. 119-44)

The present review covers the period of July 1947-June 1949 and is concerned mainly with human response to thermal stress. Much of the material is of practical or military interest. The review has sections on: new methods; response to cold; response to heat; temperature of blood and tissues; vascular responses to heat and cold; studies in thermal sensation; temperature regulation. Bibliography (119 items). **Copy seen:** DSG.

**22421. HARDY, JAMES D., and T. W. OPPEL.** Stimulation of the cold end organs of the human skin by radiation. (American journal of physiology, July 1938. v. 123, p. 89-90)

Contains a summary of experiments made by concentrating "cold radiation" upon the skin with a large silver cone. Areas smaller than 3 cm.<sup>2</sup> could not be stimulated; the number of cold end-organs per unit area appeared to be greater than the number of heat endings; spatial summation of cold sensation follows the same laws as heat sense, but is poorer; heat and cold sensation are not mediated by the same end-organ; data on stimulation threshold, change in skin temperature due to "cold radiation," etc., are also presented.

**Copy seen:** DLC.

**22422. HARDY, JAMES D., and H. GOODELL.** Thermoregulatory phenomena associated with exposure to warm and cold environments. (Federation proceedings, Mar. 1947. v. 6, p. 122)

Contains a report on observations made on 20 medical students exposed, in minimal clothing and for brief periods (3-4 hours), to temperatures of 31° C. and, 16°-18° C. Measurements of metabolic rate, rectal and skin temperature, were made and other values calculated in both situations. **Copy seen:** DLC.

**HARDY, JAMES D.,** see also Wolf, S., & J. D. Hardy. Studies on pain, observations . . . pain due to cooling. 1941. No. 27473.

**22423. HARE, F. KENNETH.** Climate and zonal divisions of the boreal forest formation in Eastern Canada. (Geographical review, Oct. 1950. v. 40, p. 615-35, incl. 4 p. of illus., 4 sketch maps). Reprinted in American Geographical Society. *Readings in the geography of North America*, 1952, p. 446-66.

Contains study of the coniferous forest (south of tundra) region in northern Ontario and Quebec (Labrador - Ungava Peninsula), their characteristic cover and its relationship to climate. Following outline of structure and composition, three forest types are characterized and correlated with I. Hustich (*Arctic Bibliography* No. 7592): close-forest, lichen-woodland, muskeg; four proposed zonal divisions of the area are defined with indication of their dominant forest types. Climatic relations are discussed on basis of potential evapotranspiration of the C. W. Thornthwaite classification, with charts, thermal efficiency and moisture index; climate distributions are correlated with zonal forest divisions (for which potential evapotranspiration is tabulated). *Appendix* lists (with geographic coordinates, elevation and period of data used) about 100 climatological stations in the area.

**Copy seen:** CaMAI; DLC.

**22424. HARE, F. KENNETH.** The Labrador frontier. (Geographical review, July 1952. v. 42, p. 405-424, illus. maps, table)

Contains an account of the physical geography of the Labrador Peninsula, its mineral and other resources and their recent development, largely in the Labrador Trough. A geological outline of the trough, a folded belt consisting of an alternation of parallel ridges and valleys, extending from the central plateau northward to the coast (Cape Hopes Advance), is given; notes on the exploration of J. A. Retty since 1936, discoveries of high-grade iron ore, organization of Canadian-American mining companies since 1942 for exploitation; the Hollinger concessions in the Knob Lake region (approx. 54°40' N. 66°40' W.), problems in developing the mines; transportation, climate, power; projects to build railway (Quebec North Shore and Labrador Railway) from the port of

Seven Islands, also hydroelectric power installations; exploration by Fenimore Iron Mines Ltd. in the Leaf River region and proposal of extension of the railway to Fort Chimo; titanium find in southern Labrador and its development; other prospecting enterprises (sketch maps p. 407, 412). The forest resources of the Peninsula are characterized, and finally the significance is noted of the St. Lawrence seaway, increasing canal capacity, in relation to exploitation of natural resources of Labrador.

**Copy seen:** DLC.

**22425. HARE, F. KENNETH.** The present-day snowfall of Labrador-Ungava. (American journal of science, Sept. 1951. v. 249, no. 9, p. 654-70, 8 fig.)

"Isopleth charts of mean annual snowfall, number of days per annum with snow, November and March snowfall are presented for Labrador-Ungava Peninsula, based on a few older records and a large number of records from stations established during or since the war (station location chart also presented). Mean isobar and wind charts for Feb. 1947 show easterly flow (similar to that presupposed by Antevs for Wisconsin time glacier formation) during a month of apparently exceptionally heavy snowfall. Closer examination of the snowfall and charts for that month, however, shows that the more northerly part where winds were onshore did not receive heavy snow but did have anomalous warmth. Therefore, extreme cold and heavy snowfalls have not occurred with such a circulation pattern. Most of the snow in this region occurs in frontal or cyclonic zones, due to southerly flow overriding the surface easterlies. Effect of frozen vs. open water lakes also considered."—*Meteorological abstracts and bibliography*, Oct. 1952. v. 3, no. 10, p. 1056. Bibliography (10 items).

**Copy seen:** DLC; DWB

**22426. HARE, F. KENNETH.** Some climatological problems of the Arctic and sub-Arctic. (In: American Meteorological Society. Committee on the Compendium of Meteorology. *Compendium of meteorology*. 1951. p. 952-64, map, diagrs.)

"A review of climatological literature is presented. Ecological climatology including the arctic tree line, the forest-tundra ecotone, the boreal forest, and permafrost distribution is discussed. The distribution of sea ice and the climatolog-

ical significance is given. The main features of Hobbs' glacial anticyclone theory are summarized and the present position of meteorologists towards the theory are presented."—SIPRE. See also *Meteorological abstracts and bibliography*, Oct. 1952, v. 3, no. 10, p. 1007-1008. Bibliography (69 items).

**Copy seen:** CaMAI; DLC.

**22427. HARGRAVE, HARRY J.** Arctic livestock. (Country guide, Mar. 1948. v. 67, no. 3, p. 5, 61-62, illus.)

Description of reindeer appearance, habits, behavior on the range and in the corral; notes on the use of their hides and meat, and on the industry in the Mackenzie delta region, which began with the arrival of a herd driven from Alaska, 1929-35.

**Copy seen:** DA.

**22428. HARKER, PETER, 1920- , and D. J. McCLAREN.** *Sciophyllum*, a new rugose coral from the Canadian Arctic. (Canada. Geological Survey. Bulletin, 1950. no. 15, p. 29-34, illus.)

Contains a description of *Sciophyllum lambarti*, n.g.n.sp. from Carboniferous (probably Mississippian) beds of the Alaska-Yukon boundary region, 68°48'40" N. 141° W., and discussion of its genetic relations. Bibliography (13 items).

**Copy seen:** DGS.

**22429. HARLAND, W. B.** Cambridge geological expedition to Spitsbergen, 1949. (Polar record, July 1950. v. 5, no. 40, p. 612-13, illus.)

Contains note by the leader on the 13-man expedition in July-Aug. 1949 to Vestspitsbergen to make stratigraphic correlation of the geology of the northern shores of Sassenfjorden and Tempelfjorden, conduct surveys at Brucebyen, Ebbadalen, and elsewhere. As well as these studies hydrographic and meteorological observations were carried out at the base Brucebyen, and the temperature of soil polygons studied.

**Copy seen:** DLC

**22430. HARLAND, W. B.** The Cambridge Spitsbergen Expedition, 1949. (Geographical journal, Sept. 1952. v. 118, p. 309-331, 3 sketch maps, fold. map)

Contains an account (by the leader) of a thirteen-man geological expedition to the region of West Spitsbergen lying between Dickson and Sassen fiords, at the head of Isfjorden, the party's headquarters being at Brucebyen (map included).

The preliminary survey of Permo-Carboniferous and pre-Devonian rocks is described as well as soil polygons, glaciology, and the hydrographic survey; the party's equipment and food rations are noted. This paper was read at a meeting of the Royal Geographical Society, and the ensuing discussion is given p. 329-31. *Appendices* present (1) records; (2) topographical survey; (3) the topographic map, with a list of 70 additions to place names of Svalbard. This folded map (scale 1:125,000) covers central Vestspitsbergen, 78°25'-79° N. 15°30'-17°30' E.

*Copy seen:* DGS; DLC.

**22431. HARNOLL, KETIL.** Nordostpassasjen som moderne samferdselsåre. (Norsk polartidende, no. 9-12, Polarboken 1951, p. 48-50, 62) *Title tr.:* The Northeast Passage in modern communication.

*Contains* sections on Norway's economic interests in, and early attempts at the Northeast Passage; recent Soviet regular, commercial traffic on the Northern Sea Route; its importance; transit traffic; ice and weather forecasts servicing the traffic; climatic factors favoring the Route at present; prospects. Summary in English. *Copy seen:* CaMAI.

**22432. HARP, ELMER.** An archaeological survey in the Strait of Belle Isle area. (American antiquity, Jan. 1951. v. 16, no. 3, p. 203-220, illus.)

*Contains* a preliminary, descriptive report on archeological reconnaissance in the summer of 1949 (to be continued in 1950) in southern Labrador and northern Newfoundland, aided by the Arctic Institute of North America and the U. S. Government. The aim of the investigation was to delineate the culture of the Beothuk or Red Indians (who once inhabited Newfoundland) and also to clarify the manifestations of the Cape Dorset Eskimo culture previously noted on Newfoundland by Dr. Jenness and Dr. Wintemberg, and to examine the possibilities of a contact between these two with a view to tracing diffusion of certain traits in the Archaic period. Data are supplied on the location of investigated sites; the discovered major occupation sites, workshop sites, camp sites and the relics found in them, etc., with conclusion that the Beothuks and Cape Dorset Eskimos had prolonged period of contact, and conjecture that this contact may have been the medium

through which certain Eskimo-like traits passed to northeastern Indians in the Laurentian. Bibliography (15 items).

*Copy seen:* DAI.

**22433. HARPER, FRANCIS, 1886- , and J. T. NICHOLS.** Six new fishes from northwestern Canada. (American Museum of Natural History. Bulletin, 1919. v. 41, p. 263-70, plate)

*Contains* descriptions of six species from a collection of 15 made by the senior author on an expedition to Great Slave Lake in 1914. Data on type locality, type specimen, general characters, description of type, distribution, etc., are furnished. Bibliographical footnotes. *Copy seen:* DLC.

**HARPER, FRANCIS, 1886- , see** Dix, W. L. Lichens & hepatics Nueltin Lake Exped. 1950. No. 21478.

**HARPER, FRANCIS, 1886- , see also** Polar record. Biological work Keewatin. 1950. No. 25134.

**HARPER, FRANCIS, 1886- , see also** Porsild, A. E. Vascular plants Nueltin L. NWT. 1950. No. 25253.

**22434. HARRINGTON, LYN.** The Alaska Highway. (Canadian geographical journal, June 1951. v. 42, p. 238-59, incl. 5 p. of illus., map)

*Opening* remarks on the improved facilities for the traveler along the Highway, and a description of the scenery, populated places, bridges and rivers along the route from Dawson Creek to Fairbanks.

*Copy seen:* DGS; DLC.

**22435. HARRINGTON, LYN, and RICHARD HARRINGTON.** Haida carver of argillite. (Canadian geographical journal, July 1952. v. 45, no. 1, p. 38-40, illus.)

*Contains* description with photographs of the technique of argillite carving which has flourished among Haida Indians of Queen Charlotte Islands since about 1820. The work of Louis Collison "the last of the skilled carvers" is discussed and characteristic small totem poles with traditional motifs are illustrated in process of carving and polishing.

*Copy seen:* CaMAI; DLC.

**22436. HARRINGTON, LYN.** People who live in snow houses. (Forest and outdoors, Mar. 1949. v. 45, no. 3, p. 24-25 illus.)

*Contains* notes on present-day life in igloos and its changes from earlier times with regard to clothing, utensils and food; the advantages the seal-oil lamp, internal arrangement of the igloo, its "maintenance" etc., are outlined.

*Copy seen:* DA.

**22437. HARRINGTON, MICHAEL.** Newfoundland measures history by her sealing springs. (*Atlantic guardian*, Mar. 1952. v. 9, no. 3, p. 25-34, illus.)

Sketch of memorable events (mainly disasters to sealing ships in the spring of the year) by which domestic happenings in parts of Newfoundland are dated "before" or "after."

*Copy seen:* CaMAI.

**22438. HARRINGTON, RICHARD.** The barren land, photographs from latitude 70° North. (*Beaver*, Dec. 1951, p. 26-29, col. illus.)

*Copy seen:* CaMAI.

**22439. HARRINGTON, RICHARD.** The cheerful Eskimo. (*Beaver*, Mar. 1952. Outfit 282, no. 4, p. 7-15, illus.)

*Contains* photographs of eight individuals taken in 1951. They are Netsilik and Baffin Island Eskimos living at Spence Bay on Boothia Isthmus, the latter group migrants from Cape Dorset to find new hunting grounds. Drawings of a few of them by James Houston are also given.

*Copy seen:* CaMAI.

**22440. HARRINGTON, RICHARD.** Coppermine patrol; story and pictures. (*Canadian geographical journal*, Dec. 1950. v. 41, p. 256-69, incl. 4 p. of illus.)

Account of a sledge patrol with the Royal Canadian Mounted Police, in the Bathurst Inlet region of Northwest Territories, Jan.-Feb. 1949, with notes on the Copper Eskimos, traveling, and the work of the police.

*Copy seen:* DLC

**22441. HARRINGTON, RICHARD.** The face of the Arctic, a cameraman's story in words and pictures of five journeys in the far North. New York. Henry Schuman, Inc. 1952. 369 p. plates.

*Contains* photographs presenting "intimate, sensitive illustrations of northern life, indoors and out, day and night, under all conditions," the work of a documentary photographer. The text, based on diary notes, gives matter-of-fact-account of author's visit to Coppermine, coastal and inland dogteam trips with R. C. M. P. and Eskimos in 1949,

his experiences on the west coast of Hudson Bay and northward to Boothia Peninsula in 1950 and 1951, and occasional recollections of two earlier types. The people whom he met, Eskimos, traders, missionaries, etc., their customs and environment, are briefly characterized. Reviewed by Richard Finnie in *Beaver*, Dec. 1952, p. 49.

*Copy seen:* DLC.

**22442. HARRINGTON, RICHARD.** Journey in arctic Quebec. (*Canadian geographical journal*, Aug. 1950. v. 41, p. 90-104, illus.)

Account of a dog sledge trip with Eskimos during the early winter season, and of settlements and people on the east coast of Hudson Bay from Port Harrison to James Bay.

*Copy seen:* DGS; DLC.

**22443. HARRINGTON, RICHARD.** Last man out. (*Fur trade journal of Canada*, Oct. 1951. v. 29, no. 2, p. 14-15, 38-39, illus.)

Author's encounter with the last white fur trapper north of the Manitoba border, after the Canadian government ruled trapping rights to be reserved for natives. Some notes on the trapper's way of life.

*Copy seen:* DL

**22444. HARRINGTON, RICHARD.** The Padleimiuts. (*Canadian geographical journal*, Jan. 1952. v. 44, no. 1, p. 2-15, illus.)

*Contains* a photographer's account of the life of the southernmost tribe of the Caribou Eskimos, who live west of Hudson Bay, Keewatin District. His numerous photographs illustrate their dwellings, clothing, occupations, and amusements, etc.

*Copy seen:* DGS; DLC.

**22445. HARRINGTON, RICHARD.** People of the snows, Eskimos of Port Harrison, Hudson Bay. (*Beaver*, Mar. 1950. Outfit 280, no. 4, p. 16-21 (photo. illus.))

*Copy seen:* DSI-M.

**HARRINGTON, RICHARD.** *see also* Harrington, L. Haida carver of argillite. 1952. No. 22435.

**HARRIS, MILTON,** *see* Fourt, L., & M. Harris. Physical properties clothing fabrics. 1949. No. 21898.

**HARRIS, MILTON,** *see also* National Research Council. Subcommittee on Clothing. Clothing test methods. 1945. No. 24577.

**22446. HARRISON, JAMES MERRITT, 1915-** Structural features of the Canadian Shield. (World oil, Feb. 1, 1950. v. 130, no. 2, p. 202-206, illus.).

Remarks on usefulness of air photographs and related geological maps of Precambrian areas in Canada to the petroleum geologist who wishes to study the effect of basement-type structures in rocks underlying potential or proven oil-bearing strata; with brief notes on the physiography, Precambrian structures and quartz veins of the Canadian Shield; bibliography (11 items).

*Copy seen:* DGS.

**22447. HARRISON, LOUIS P.** Frost formation on aircraft in clear air. Part I: Meteorological conditions in the free air favoring frost formation. Part II: Description and quantitative data regarding frost formation at the surface. [1947] 54 p. 4 fig., 6 tables. Typewritten. (U. S. Weather Bureau)

"Five apparently authentic cases of frost formation on leading edges or wing surfaces of airplanes in flight (all in the Pacific Northwest or Alaska) and the attending meteorological conditions are cited. The physical processes for frost formation in air which is supersaturated with respect to ice, are thoroughly analyzed—most of the pertinent literature on the subject reviewed—and photographs of frost formations at the surface appended."—*Meteorological abstracts and bibliography*, Jan. 1952. v. 3, p. 25.

*Copy seen:* DWB.

**HARRISON, R. C.,** see Bigelow, W. G., & others. Oxygen transport & utilization in dogs at low body temperatures. 1950. No. 20680.

**22448. HARRISON, R. J.,** and others. Reproduction in some Pinnipedia. (Zoological Society of London. Transactions, Oct. 1952. v. 27, no. 1, p. 437-540, illus., tables, plates) Other authors: L. H. Matthews and J. M. Roberts.

Contains a study of the gross and histological appearance of the reproductive organs of nine species, three of them arctic (*Phoca hispida* from Greenland, *Eumetopias stelleri* and *Callorhinus ursinus* from the Pribilof Islands) including fetal, neonatal and adult specimens. Evidence of a breeding season and cyclic testicular activity was found in two species; changes in urogenital system during pregnancy are also described; there was evidence of occurrence of delayed im-

plantation in most seals; in two species of seal, enlargement of pre- and neo-natal gonads was found; the histology, including functional changes, of the ovary, uterus and vagina are correlated in fetal, neonatal and mature specimens; a short note is also devoted to the fetal membranes. Bibliography (about 75 items).

*Copy seen:* DLC.

**HARRISON, R. J.,** see also Amoroso, E. C., & others. Reproductive organs newborn seals. 1951. No. 20182.

**22449. HARSHBERGER, JOHN WILLIAM, 1869-1929.** The forests of the Pacific coasts of British Columbia and southeastern Alaska. Helsinki, 1929. 5 p. (Acta forestalia fennica, v. 34, no. 5)

Lists seven larger shrubs, six undershrubs, western skunk cabbage, ten forest herbs, six ferns, two club mosses, and two mosses which the ecologist must use to determine the forest types of an area and to ascertain if the "principle of forest types elaborated by Professor Cajander will be applicable in their delimitation."

*Copy seen:* DLC.

**HART, HENRY CHICHESTER,** see McLachlan, R. Report Insecta Arctic Exped. 1872. No. 24095.

**22450. HARTOG, J. M.** Oxford University expedition to Nordaustlandet (North East Land), 1949. (Polar record, July 1950. v. 5, no. 40, p. 613-14)

Contains a note on the itinerary of the five-man expedition (headed by the author) in July-Sept. 1949; its work included: surveying land exposure, collecting rocks and plants, compiling notes on birds, geographical and geomorphological studies, etc.

*Copy seen:* DLC.

**22451. \* HARVA, UNO, 1882-1949.** Der Adoptivsohn und der Hausschweigersohn bei den finnisch-ugrischen Völkern. (Finnisch-ugrische Forschungen, 1944. Bd. 28, p. 57-76) *Title tr.:* The adoptive son and the son-in-law living in the wife's home among the Finno-Ugric peoples.

Contains a general explanation of the custom and examples: the adoption of a boy from the relatives among the Skolt Lapps, if a man does not have his own son (p. 60); Zyryan ceremonies of adoption (p. 61); personal names of the Skolt Lapps (p. 70-71). Among the forest Yuraks, a man does not pay a bride price, if he is going to live with his wife's fam-

\*Name Holmberg was used in his earlier works.

ily. Among the Zyryans, the bride's father must pay to the father of his son-in-law, if the latter is to settle in his wife's house (p. 74).

**Copy seen:** DLC; InU.

**22452. HARVA, UNO, 1882-1949.** Der Bau des Verwandtschaftsnamensystems und die Verwandtschaftsverhältnisse bei den Finno-Ugriern. (Finnisch-ugrische Forschungen, 1939-40. Bd. 26, p. 91-120)

**Title tr.:** The structure of the kinship name system and conditions of kinship among the Finno-Ugric peoples.

The levirate and the sororate were known among Ural-Altaic peoples. Ultimogeniture (youngest son as heir) was the custom among the Samoyeds, Lapps, and Zyryans. The Finno-Ugric family was exogamous and relationship based on the male line.

**Copy seen:** InU.

**22453. HARVA, UNO, 1882-1949.** Finno-Ugric, Siberian [mythology]. Archeological Institute of America, Boston, Marshall Jones Co., 1927. xxv, 3-587 p. 63 plates, 28 text illus., fold. map. (The mythology of all races, ed. by John Arnett MacCulloch, v. 4)

Contains a critical description of the religious beliefs and practices (including customs) of two large groups of Eurasian peoples, many of the latter, native to the far North. The author has arranged the abundant and critically appraised material (from his own investigation and printed sources) not according to the peoples of each group (except chap. 7, p. 100-12 on the Lapp *seides*), but following the objects of worship or categories of deities of each of the cultural cycles.

Part 1 (p. 3-295) *Finno-Ugric*, which covers among others, the Finns, Lapps, Zyryans, Samoyeds, Voguls and Ostyaks, has the following chapters: 1. The belief in souls; 2. Death and burial; 3-4. Memorial feasts; 5. The life beyond; 6. Animal worship; 7. The *seides* of the Lapps; 8. Family gods; 9. Heroes; 10-12. Household, forest and water spirits; 13. Gods of sky and air; 14. Fire; 15. Deities of the earth, vegetation, birth; 16-17. Sacrifices to nature gods among the Volga Finns; 18. The shaman.

Pt. 2 (p. 297-523) *Siberian*, covering among others, the Tungus, Yakuts, Chukchis, Dolgans, Kamehadals and Koryaks, has chap.: 1. World pictures; 2. The origin of the earth; 3. The pillar of the world; 4. The world mountain; 5. The tree of life; 6. Destruction of the world; 7. The creation of man; 8. The fall

of man; 9. The origin of mosquito; 10. The heaven god; 11. The sons of god; 12. The great mother; 13. The stars; 14. Thunder; 15. Fire; 16. The wind; 17. The earth; 18. The "masters" of nature; 19. Dreams, sickness and death; 20. The realm of the dead; 21. Shamanism and totemism. Notes and an extensive bibliography are appended.

**Copy seen:** DLC; InU.

**22454. HARVA, UNO, 1882-1949.** Die Hochzeitspforte der Juraksamoyeden. (Suomalais-ugrilainen seura. Toimituksia, 1933. no. 67, p. 447-50) **Title tr.:** The wedding gate of the Yurak-Samoyeds.

Contains account of the custom of going through the "wedding gate" and sacrificing a reindeer at the left pole of the "gate", as a rite of protection against dead ancestors; also a similar practice used after a burial, so that the dead should not find the way to return.

**Copy seen:** DLC; InU.

**22455. HARVA, UNO, 1882-1949.** Lapps. (In: Hastings, James, ed. Encyclopaedia of religion and ethics, 1915. v. 7, p. 797-800)

Contains sketch of worship of the dead, bear worship, tutelary spirits, nature-gods, other deities and mediators, the Lapp drum, sacrifices and offerings, etc.

**Copy seen:** DLC; InU.

**22456. HARVA, UNO, 1882-1949.** Priest, priesthood, Ugro-Finnish. (In: Hastings, James, ed. Encyclopaedia of religion and ethics, 1919. v. 10, p. 335-36)

Contains account of the priests not forming a separate social class, their importance evident only at the sacrificial feasts; women were excluded.

**Copy seen:** InU.

**22457. HARVA, UNO, 1882-1949.** The shaman costume and its significance. Turku, 1922. 32 p. 14 illus. (Abo, Finland. Suomalainen Yliopisto. Julkaisuja, ser. B, t. 1, no. 2)

Contains ethnologic study which shows that the Finnish, Lapp, Zyryan and Ob-Ugrian shamans do not wear a special costume, and use only a cap as they shamanize; an elaborated shaman's coat with numerous "iron gewgaws", however, is common among many other northern Siberian tribes: Samoyeds, Yakuts, Yeniseians, Tungus, and Buryats. The purpose of the costume was partly to affect the spectators, but the main purpose probably was directed towards the spirits;

the effigies of helpful spirit-animals increased shaman's magic power. Thus the shaman costume is an attempt at the representation of the soul of the shaman, which wanders during the performance of his art in the form of some animal.

*Copy seen:* DLC.

**22458. HARVA, UNO, 1882-1949.** Ueber die Jagdriten der Nördlichen Völker Asiens und Europas. (Suomalais-ugrilainen seura. Aikakauskirja, 1925. v. 41, no. 1, p. 1-53, 7 illus.) *Title tr.:* The hunting rites of the northern peoples in Asia and Europe.

Contains comparative ethnological investigation on the tabus and rites observed by hunters to ensure good luck, especially in bear hunting. Their womenfolk in fertile years must be kept away from the hunting weapons, game may be eaten only with due regard of certain rules. The hunter must purify himself by fumigation, he must kill an animal without torturing, by the first well-aimed stroke or shot, and he must make his excuses to the killed animal, in flattering terms (hunters often avoid mentioning the animal's proper name). The bear festival is like a human funeral, the bones of the killed animal receiving a kind of burial to prevent desecration by dogs or beasts of prey. Domestic animals only are used for sacrifices.

*Copy seen:* DLC; InU.

**22459. HARVA, UNO, 1882-1949.** Die Wassergöttheiten der finnisch-ugrischen Völker. Helsinki, 1913. iv, 295 p. (Suomalais-ugrilainen seura. Toimituksia no. 32) *Title tr.:* The water deities of the Finno-Ugric peoples.

Contains an important study which investigates the water spirits of the Lapps, Ostyaks and Voguls, Zyryans, Cheremiss, Mordvins, Estonians, Finns, and Hungarians, each people being dealt with in a separate chapter. Formerly the elements of nature itself were objects of worship (Castrén), "Mother of water" being nothing other than animated water. The entirely human-like deities of the Finno-Ugric peoples are of a later date and common only among the tribes which came in contact with peoples having a higher level of culture. The human-like deity of water developed from the idea of a local protective spirit which often had some connection with a dead ancestor. Water is a more important object in the cult and customs of agriculturists. "Mother of water" means "fertilizer" to

them. Fishers also called on a water deity for help, if such a one was already known to them.

*Copy seen:* InU.

**HARVA, UNO NILS OSKAR,** *see* HARVA, UNO, 1882-1949.

**HARVARD UNIVERSITY,** *see* Clark, V. F. Icing nomenclature. 1948. No. 21233.

**HARVIE-BROWN, JOHN ALEXANDER, 1844-1916,** *see* Alston, E. R., & J. A. Harvie-Brown. Notes from Archangel. 1873. No. 20157.

**22460. HARVILL, ALTON MCCAULEY, 1916-** . Notes on the mosses of Alaska, III. Some new or otherwise interesting records. (Bryologist, Mar. 1950. v. 53, no. 1, p. 16-26)

Author first discusses the problems of distribution, speciation, response to environment of the mosses, and the pivotal position Alaska occupies as an area where the floras of a large portion of the world have flowed "back and forth" during recent geologic periods. He then records some interesting data on over 30 Alaskan mosses from several collections. Bibliography (28 items). *For Notes . . . I-II, see Arctic Bibliography, No. 6742.*

*Copy seen:* DA.

**22461. HARWOOD, TREVOR.** Voyage round Cornwallis Island. (Arctic circular, Feb. 1951. v. 4, p. 19-29, sketch map)

Narrative of the journey by a three-man Canadian Geological Survey party in a canoe (with outboard motor), July 31-Aug. 22, 1950, for the purpose of reconnaissance mapping and geologic observation. Notes on ice conditions, weather, geology, musk oxen, bear, walrus and caribou; also on the strait between Cornwallis and Little Cornwallis Islands observed by water for the first time, and on features of the west coast of Cornwallis Island explored by this party for the first time.

*Copy seen:* CaMAI; DAL.

**22462. HASSELROT, TORSTEN EDWARD, 1903-** . Till kännedomen om några nordiska Umbilicariaceér utbredning. Uppsala, Almqvist & Wiksell, 1941. 75 p., plates 1-4, text maps. (Acta phytogeographica suecica, 15) *Title tr.:* A contribution to the knowledge of the distribution of some northern Umbilicariaceae.

Contains a study of the Scandinavian (including Russian and Finnish Lapland)

distribution of seven species of lichen genus *Umbilicaria*, with critical notes, data on habitat and a list of Scandinavian localities; bibliography (110 entries). Summary in German.

**Copy seen:** DA; MH-A.

**HASSETT, CHARLES CLIFFORD, 1905-**, see Jenkins, D. W., & C. C. Hassett. Dispersal & flight range mosquitoes. 1951. No. 22950.

**22463. HASSINGER, HUGO, 1877-**. Österreichs Anteil an der Erforschung der Erde. Ein Beitrag zur Kulturgeschichte Österreichs. Wien, Verlag Adolf Holzhausens Nfg., 1949. 194 p., plate, 4 fold. maps. **Title tr.:** Austria's share in the exploration of the world. A contribution to the cultural history of Austria.

**Contains**, in addition to accounts of travel and exploration, considerable information on maps, mapping and geography. Accounts of arctic exploration include S. von Herberstein's travels in northern Russia in 1517, 1526-27 (p. 40-41); Weyprecht and Payer's expeditions in Barents Sea in the *Isbjörn* in 1871 and the *Tegelthoff* in 1872-74; Alfred Wegener's Greenland expedition, 1929-31 and several minor voyages to, and studies on, the arctic regions (p. 176-79). Bibliographical footnotes.

**Copy seen:** DLC.

**HASTINGS, JAMES, ed.**, Encyclopaedia of religion & ethics, see Billson, C. J. Names, Lapp. 1917. No. 20684.

Billson, C. J. Prayers. 1919. No. 20685.

Chamberlain, A. F. Aleuts. 1908. No. 21145.

Czaplicka, M. A. Ostyaks. 1917. No. 21324.

Czaplicka, M. A. Samoyed. 1911. No. 21325.

Czaplicka, M. A. Siberia. 1921. No. 21326.

Czaplicka, M. A. Tungus. 1922. No. 21327.

Czaplicka, M. A. Yakut. 1922. No. 21328.

Harva, U. Lapps. 1915. No. 22455.

Harva, U. Priest. 1919. No. 22456.

Krohn, K. Ancestor-worship. 1908. No. 23477.

Krohn, K. Birth, Finns & Lapps. 1910. No. 23479.

Krohn, K. Finno-Ugrians. 1914. No. 23480.

Krohn, K. Finns ancient. 1916. No. 23481.

MacCulloch, J. A. Shamanism. 1921. No. 24070.

MacRitchie, D. Images & idols. 1915. No. 24106.

Radin, P., & L. H. Gray. Eskimos. 1912. No. 25328.

**22464. HASTRUP, FRITS.** Norrbottens län. (Kulturgeografi, Okt. 1950. Årg. 2, nr. 5, p. 168-73, illus.)

Brief description of this northern province of Sweden, its area, cultivation, towns, communications, etc., with seven photographs showing farms, the village of Nilivaara, Abisko River, etc.

**Copy seen:** DLC.

**22465. HATERIUS, HANS OLIVER, 1902-**, and A. H. HEGNAUER. Consciousness and reflex potentialities of dogs during immersion hypothermia. (Federation proceedings, Mar. 1949. v. 8, p. 69-70)

Abstract of "random observations on CNS activity on more than 150 dogs . . . choice of pre-cooling anesthetics of paramount importance. Light ether or cyclopropane, withdrawn periodically," revealed rectal temperatures varying from 22.5° to 26° (24.5° to 28° cerebral temperatures) at which consciousness was abolished. Spontaneous reflex activities are described.

**Copy seen:** DLC.

**22466. HATERIUS, HANS OLIVER, 1902-**, and G. L. MAISON. Observations on hypothermia and rewarming in the dog: recovery from drastic reduction in body temperature. (Federation proceedings, Mar. 1947. v. 6, p. 124-25)

Abstract of results of laboratory-controlled ice-water immersion tests on dogs, some of which survived a reduction in rectal temperature to an average of 14.8° C. with complete recovery; deaths in other cases being a matter of respiratory failure or (apparently) heart block.

**Copy seen:** DLC.

**HATERIUS, HANS OLIVER, 1902-**, see also Hegnauer, A. H., & others. Cardiovascular response of dog to hypothermia. 1950. No. 22478.

**HATERIUS, HANS OLIVER, 1902-**, see also Hegnauer, A. H., & H. O. Haterius. Pulse rate & blood pressure dogs immersion hypothermia. 1949. No. 22479.

**HATERIUS, HANS OLIVER, 1902-**, see also Maison, G. L., & H. O. Haterius.

Terminal changes cardiac activity. 1947. No. 24120.

**HATT, EMILIE DEMANT, 1873-**, *see* Turi, J. O., & P. A. Turi. Lappish texts. 1918-19. No. 26853.

**HATT, EMILIE DEMANT, 1873-**, *see also* Turi, J. O. Turi's book of Lappland. 1931. No. 26852.

**22467. HATT, GUDMUND, 1884-**. Iskustvennoe formovanie golovy rebenka u skandinavskikh laplandfsev. (Akademiia nauk SSSR. Muzei antropologii i etnografii. Sbornik, 1916. t. 3, p. 49-56, 41 illus.) **Title tr.**: Artificial deformation of a child's head among the Scandinavian Laplanders.

Contains description of how the Lapps try to shape the skull of their children as round as possible, using tight caps, etc., and their success in achieving their aim.

**Copy seen:** DSI.

**22468. HATTERSLEY-SMYTH, GEOFFREY F., 1923?-**. Beaufort Sea expedition, 1951. (Arctic circular, Feb. 1952. v. 5, no. 2, p. 13-17, sketch map)

Contains report of a nine-man expedition (T. H. Manning leader) on Canadian Defence Research Board vessel *Cancolim II* in July-Sept. 1951, for hydrographic, oceanographic and other work in Beaufort Sea. Gives detailed itinerary (to Point Barrow, Herschel Island, Tuktoyaktuk, Baillie Island, west coasts of Banks and Victoria Islands, returning to Tuktoyaktuk where the ship was to winter, the party being evacuated by air); descriptions of ice conditions, places visited or seen, main events, etc. The reported results of the expedition include: establishment (from sounding data) of the rough limits of the continental shelf; oceanographic data from 43 stations; plankton and fish (16 species) collections; collection of 85 bird skins (30 species); skins and skulls of 190 mammals (22 species); establishment of four new astronomical control positions for the Geodetic Survey; report on harbors, also topography and geology of coastlines visited; note of a small island (apparently hitherto unreported) north of Robilliard Island.

**Copy seen:** DLC.

**HATTERSLEY-SMYTH, GEOFFREY F., 1923?-**, *see also* Koenig, L. S., & others. Arctic ice islands. 1952. No. 23348.

**22469. HAUSEN, HANS, 1884-**. En ny geologisk översiktskarta över Norden.

(Terra, 1934. 46:4, p. 199-201) **Title tr.**: A new geological survey map of northern Europe (Fennoscandia).

Appreciation and review of the map (1:1 million) in color, by A. Gavelin and N. H. Magnusson 1933, to be considered a new edition of Törnebohm's map of 1908. The new map, utilizing survey data from various northern countries, is useful for teaching their natural history.

**Copy seen:** DLC.

**22470. HAUSHOFER, KARL, 1869-**. Eisgrenzen der Geopolitik. (Zeitschrift für Geopolitik, Juni 1943. Jahrg. 20, p. 220-22) **Title tr.**: Ice limits of geopolitics.

Remarks in general on the political significance of E. Drygalski and F. Machatschek's *Gletscherkunde*, Wien 1942 (*Arctic Bibliography*, No. 4152); and other books appearing since 1939 on the geopolitical aspects of Greenland and the Pacific Ocean.

**Copy seen:** DLC.

**HAVEMANN, A. V., see GAVEMAN, ALEKSANDR VASIL'EVICH, 1903-**

**22471. HAWKES, LEONARD, 1891-**. Some notes on the structure and flow of ice. (Geological magazine, Mar. 1930. v. 67, p. 111-23)

"With as little use as possible of technical terms," author summarizes some facts and theories of the structure and flow of ice, "the permanent internal deformation which ice suffers under stress" not "the whole mechanism of the flow of glaciers."

**Copy seen:** DGS.

**22472. HAZZARD, JOHN CHARLES, 1903-**, and others. Cretaceous rocks in the Kamishak Bay area, Cook Inlet, Alaska. (Science, Aug. 1950. v. 112, no. 2904, p. 226-7) Other authors: Joseph J. Bryan, Eugene Borax and Richard Shoemaker.

Contains a petrographic description of these Cretaceous sediments extending for 2000 feet between the Kamishak and Douglas Rivers. Several fossils are also listed.

**Copy seen:** DA.

**22473. HAZZARD, JOHN CHARLES, 1903-**, and others. Geology of Kamishak Bay area, Cook Inlet, Alaska. (American Association of Petroleum Geologists. Bulletin, Dec. 1950. v. 34, p. 2377) Other authors: J. J. Bryan, E. Borax, and R. Shoemaker.

Abstract of a paper presented at the A. A. P. G. Pacific Section annual meeting, Oct. 19-20, 1950. Gives a brief

statement of the geologic features of a 2,000 square mile region at the southwestern end of Cook Inlet, about 59° N. 154° W., investigated in a reconnaissance fashion during the summer of 1948.

**Copy seen:** DGS.

**22474. HAZZARD, JOHN CHARLES, 1903-** . Lower cretaceous rocks at Cape Kaguyak, north of Kukak Bay, Alaska. (Science, Aug. 1950. v. 112, no. 2904, p. 227)

*Contains data on the extent of these rock beds, their petrographic composition and relation to neighboring formations (approx. 58°30' N. 154° W. on Alaska Peninsula).*

**Copy seen:** DA.

**22475. HEBERDEY, RUDOLF F.** Revision der paläarktischen Arten der Gattung *Notoxus* Geoffr. 1, die Verwandten des *Notoxus monoceros* L. (Koleopterologische Rundschau. 1936. Bd. 22, p. 125-80, illus., text maps) **Title tr.:** A revision of palearctic species of the genus *Notoxus* Geoffr. 1, the related species of *N. monoceros* L.

*Contains a critical revision of palearctic species of coleopterous genus Notoxus of the group N. monoceros, with a key to the species, description of 13 species, many new subspecies and aberrations, critical notes and data on distribution. A catalog of subspecies and aberrations (p. 178-80) includes N. monoceros occurring in Swedish Lapland (text map 3, p. 169).*

**Copy seen:** MH-Z.

**HEDEEN, R. A.,** see Keegan, H. L., & R. A. Hedeén. Collections ectoparasitic mites from Alaska. 1952. No. 23177.

**22476. HEDTOFT, HANS, 1903-** . Fremtidens Grønland. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 2, p. 335-37) **Title tr.:** Greenland of the future.

*Closing remarks to a comprehensive survey of Greenland in 1950, as a country now taking considerable responsibility for her own administration, as well as an independent place in world trade.*

**Copy seen:** DSI-M.

**22477. HEEGAARD, P. E.** Some parasitic copepods from fishes in the Uppsala University collection. (Arkiv för zoologi, 1945. Bd. 35A, no. 18, p. 1-27, illus.)

*Contains descriptions of 13 species (five new) of parasitic copepods from fishes in this collection, including Caligus curtus (Greenland waters), Dinematura producta (Greenland to northern Norway), Nes-*

*sipus borealis* (Alaska) and *Clavella uncinata* (Greenland), parasitic on various marine fishes; bibliography (38 items).

**Copy seen:** DSI-M; MH-Z.

**22478. HEGNAUER, ALBERT HENRY, 1900-** , and others. Cardiovascular response of the dog to immersion hypothermia. (American journal of physiology, June 1950. v. 161, p. 455-65, diagrs.) *Other authors:* W. J. Shriber and H. O. Haterius.

*"The work here presented on the intra- and extra-cardiac conditions which influence survival at low body temperatures, developed from a more extensive and general study of the physiology of the hypothermic state. The interpretation of the results leads to the conclusion that the diminished coronary pressure head is but one of the factors involved. The studies include pulse rate, blood pressure, and blood viscosity changes, the pressure cycle in the left ventricle and right atrium, and the electrocardiogram." Bibliography (37 items).*

**Copy seen:** DLC.

**22479. HEGNAUER, ALBERT HENRY, 1900-** , and H. O. HATERIUS. Pulse rate and blood pressure of dogs in immersion hypothermia. (Federation proceedings, Mar. 1949. v. 8, p. 71)

*Contains an abstract of observations on dogs made hypothermic in a bath of 2°-4° C. Average pulse rate and blood pressure as well as heart-blood temperature were studied, compared and analyzed.*

**Copy seen:** DLC.

**22480. HEGNAUER, ALBERT HENRY, 1900-** . Temperature gradients in dogs in immersion hypothermia. (Federation proceedings, Mar. 1949. v. 8, p. 71)

*Contains an abstract on studies with animals submitted to drastic hypothermia in an iced bath of 2°-4° C. Core to surface and cerebral to rectal temperature-gradients were studied and compared with each other and with other phenomena observed.*

**Copy seen:** DLC.

**HEGNAUER, ALBERT HENRY, 1900-** , see also Haterius, H. O., & A. H. Hegnauer. Consciousness & reflex potentialities dogs. 1949. No. 22465.

**22481. HEIBERG, JACOB.** Lappische Gräber-Schädel. (Archiv für mathematik og naturvidenskab, 1878. Bd. 3, p. 234-40, table) **Title tr.:** Lapp skulls from graves.

Contains the results of a study of 14 skulls of Lapps from burial places in the Varangerfjord region, with general descriptive notes (sex, age, condition of the skull and teeth, etc.) and a table of craniological data on p. 240.

*Copy seen:* MH-Z.

**22482. HEIKINHEIMO, OLLI, 1882-** . The Forest Research Institute of Finland and its activities from 1918 to 1938. Helsinki, 1939. 39 p., map. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 28:1)

Contains a summary of the Institute's activities and an author index of publications by its members, including work on northern regions. *Copy seen:* DLC.

**22483. HEIKINHEIMO, OLLI, 1882-** . Kuusen iän määrittämisestä ja kuusen myöhäisjuurista. Helsinki, 1920. 29 [1], 6 p., illus., diagr. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 2:3) *Title tr.:* Determining the age of spruce and its adventitious roots.

Preliminary study on age determination of spruce, more difficult to estimate than that of pine, due to growth habit. The author was able to determine the age of adventitious roots of 5 to 20 years in spruce of southern and central, and 30 to 100 years in that of northern Finland. Bibliography (10 items). Summary in German. *Copy seen:* DLC.

**22484. HEIKINHEIMO, OLLI, 1882-** . Kuusimuodoista ja niiden metsätaloudellisesta arvosta. Helsinki, 1920. 102, 11 p. 24 illus. on plates, tables. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 2:2) *Title tr.:* The forms of spruce and their value in forest economy.

A study of cones and branches of spruce trees and how they influence the form of spruce in northern Finland. Bibliography (about 100 items). Summary in German. *Copy seen:* DLC.

**22485. HEIKINHEIMO, OLLI, 1882-** . Metsäpuiden siementämiskyvystä, I. Helsinki, 1932. 61 p. illus., map tables. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 17:3) *Title tr.:* On the seeding ability of forest trees, I.

On the basis of data from nine experiment areas, of which Kivalo (66°25' N.) is the most northerly, author describes the times and amounts of seed fall from pine, spruce, Siberian and European larch, and gives comparative data on

the seeding of pine and spruce. Map shows location and size of forest-experiment areas in Finland. Summary in German. *Copy seen:* DLC.

**22486. HEIKINHEIMO, OLLI, 1882-** . Metsäpuiden siementämiskyvystä, II. Helsinki, 1937. 67 p., tables, diagr. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 24:4) *Title tr.:* The seeding ability of forest trees, II.

Contains data on times and amounts of seed fall for spruce, pine, birch, Siberian and European larch in ten experiment areas, including one (Pallasjärvi) north of, and another (Kivalo) near the Arctic Circle. Summary in German, p. 54-67. *Copy seen:* DLC.

**22487. HEIKINHEIMO, OLLI, 1882-** . Metsäpuiden siementämiskyvystä, III. Helsinki, 1948. 15 p., tables. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 35:3) *Title tr.:* On the seeding ability of forest trees, III.

Contains data on the seeding ability of pine, spruce, birch, Siberian and European larch from nine experiment areas, of which the northernmost are Pallasjärvi (68° N. lat.) and Kivalo (66°25' N. lat.) Summary in English.

*Copy seen:* DLC.

**22488. HEIKINHEIMO, OLLI, 1882-** . Myrskytuhoista Raivolan lehtikuusimetsässä syyskuun 23 Päivänä 1924. Helsinki, 1926. 52 p., 24 illus., incl. plates. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 12:2) *Title tr.:* Storm damage in the Raivola leaf forest on Sept. 23, 1924.

Contains data on force and direction of the storm; the terrain and forest of this experimental forestation area (south of the Arctic Circle but containing Siberian larch, a typical tree for the North); rotting, faults in roots and trees as exposed by storm damage; characteristics of the larch to keep in mind in development of larch forests. Summary in German, p. 43-52. *Copy seen:* DLC.

**22489. HEIKINHEIMO, OLLI, 1882-** . Pohjois-Suomen kuusimetsien essiintyminen, laajuus ja puuvarastot. Helsinki, 1920. 170 p., 12 illus., tables, fold. map. (Acta forestalia fennica, 15) *Title tr.:* The appearance, size and amount of usable timber in northern Finnish spruce forests.

The region investigated exclusive of water bodies covered 14,318,000 hectares

(43 per cent of Finland) in 63°30'–70° N. lat. Author gives data on 172 areas from 43 main divisions of forests in this region including elevation, forest type, ownership, main factors affecting the forest, size, amount of usable timber, age of trees, terrain, drainage area, and the percentage of trees other than spruce. Summary in German, p. 165–70.

**Copy seen:** DLC.

**22490. HEIKINHEIMO, OLLI, 1882–.** Pohjois-Suomen kuusimetsien hoito. Helsinki, 1922. 132, iii, p., 22 illus., incl. plates, tables. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 5:2) **Title tr.:** The care of the spruce forests in northern Finland.

*Contains* data on soil and weather conditions of the area; the forests "coming to life": appearance of flowers, cones and seeds, seed years, new growth; the distribution, number, appearance, and type of seedlings in natural spruce stands, in burned-over areas, and in logging areas; development and care of these forests. Bibliography (50 items). Summary in German.

**Copy seen:** DLC.

**22491. HEIKINHEIMO, OLLI, 1882–.** Suomen lumituhaloalueet ja niiden metsät. Helsinki, 1920. 134, 17 p., 49 illus. on 16 plates, text maps, tables. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 3:3) **Title tr.:** The snow damaged areas of Finland and their forests. This paper was also published (in Finnish) in condensed form under the same title in Terra, 1921, v. 33, p. 1–6, map)

*Contains* outline of methods and the localities (740 observation places, approx. 64°–68° N. lat.) used by the Forest Scientific Experimentation Institute in the winter of 1918–19 in its study of forests prone to snow damage. "... The total area of snow damaged forests was 4308 km<sup>2</sup>. Snow damages were caused by the weight and density of snow collected on the branches of the trees. The snow depth increased an average of 5.5 cm. with each 50 m. increase in altitude. The density of the snow increased with altitude. The average density was approximately 0.205, and the density in the highest areas ranged from 0.226 to 0.307. Approximately 74 per cent to 84 per cent of snow damaged forests were located on hills and mountains 300 m. or more above sea level. The snow on the trees was a mixture of hoar frost and

snow which had an average thickness of 20–40 mm. and a mean density of 0.15. Mild snowy winters favoring hoar frost formation and snow adhesion to the trees were most destructive. Breaking, pressing, bending and thinning of trees are called mechanical snow damages. The physiological damages include the death of the trees, decrease in growth, and subsequent decay and fungus growths."—SIPRE. Bibliography (60 items). Summary in German.

**Copy seen:** DLC.

**22492. HEIKINHEIMO, OLLI, 1882–.** Suomen metsärajametsät ja niiden vastainen käyttö. Helsinki, 1921. 71, 20 p., 7 plates. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 4:2) **Title tr.:** Forests at the forest limit in Finland and their use.

*Contains* data on the northernmost limits of forests and factors affecting the limit; earlier works; comparison of the tree line at various altitudes in northern Finland with that in mountainous areas in other countries; the northern limit for pine and spruce, natural renewal of the trees there and environmental conditions (temperature, etc.); use of these forests. Bibliography (60 items.) Summary in German.

**Copy seen:** DLC.

**22493. HEIKINHEIMO, OLLI, 1882–, and EINO SAARI.** Suomen metsät ja metsätalous. Helsinki, 1922. iii p. l., 41 p., 9 illus., 4 plates, tables. (Acta forestalia fennica, 19) **Title tr.:** Finland's forests and forest economy.

Survey, giving data on the extent, nature, administration, management, ownership, and economic significance of the Finnish forests; the main forest types, northern limit of various trees, forest resources, education and science in forestry; also local private forestry societies and publications. Translation in English (42 p.) follows this paper.

**Copy seen:** DLC.

**22494. HEIKKILÄ, T.** Kasvututkimuksis Perä-Pohjolasta. Helsinki, 1925. 35 p. plates, tables, diags. (Acta forestalia fennica, v. 29, p. 5) **Title tr.:** Growth studies in the far North.

*Data* on transportation costs of the different-sized logs; value according to type and size of tree; measurements at eye level under the bark of spruce and pine from various forest types, showing that the period required for the tree to

reach maturity is also dependent on its type of forest. Summary in German.

**Copy seen:** DLC.

**HEINBECKER, PETER**, *see* Large, A., & P. Heinbecker. Effect cooling on wound healing. 1944. No. 23661.

**HEINBECKER, PETER**, *see also* Large A., & P. Heinbecker. Nerve degeneration following prolonged cooling. 1944. No. 23662.

**HEINBECKER, PETER**, *see also* Wells, J. R., & P. Heinbecker. Further studies on immunity to diphtheria among Central & Polar Eskimos. 1932. No. 27320.

**HEINBECKER, PETER**, *see also* Wells, J. R., & P. Heinbecker. Immunity studies Eskimos. 1931. No. 27322.

**22495. HEINRICHS, AXEL OSSIAN ANDREAS, 1864-**. Snö- och isförhållandena i Finland år 1891. (Bidrag till kännedom af Finlands natur och folk, 1894. Häft. 54, p. 73-153, fold. maps, tables) **Title tr.:** Snow and ice conditions in Finland in 1891.

The study is based on a large number of questionnaires distributed amongst the population in which observations should be marked as to: when lands and forests were free of snow in the spring, first snow fall in autumn, snow cover during the winter, time of ice break-up and movement in the spring, etc. A general characterization of snow and ice conditions based on these observations is given, and a comparative study with the previous year (1890) made. Summary in French, 3 p. at end.

**Copy seen:** DLC.

**22496. HEINRICHS, AXEL OSSIAN ANDREAS, 1864-**. Snö- och isförhållandena i Finland år 1892. (Bidrag till kännedom af Finlands natur och folk, 1898. Häft. 57, p. 321-609, incl. tables (6 fold.) and maps) **Title tr.:** Snow and ice conditions in Finland in the year 1892.

Summary of data collected by about 150 voluntary observers throughout Finland (including several in Finnish Lapland) for the Central Meteorological Institute at Helsinki. Tabulation with brief explanatory text, of daily (Oct. 1891-May 1892) measurements of snow depth and density; data on frequency of blizzards, thickness and strength of river and lake ice, duration of ice and snow in various localities. Summary in French.

**Copy seen:** DLC.

**22497. HEINTZ, ANATOL, 1898-**. Beretning om den engelsk-norsk-svenske Spitsbergen ekspedisjon sommeren 1939. (Norske videnskaps-akademi, Oslo. Årbok 1940, pub. 1941. p. 6) **Title tr.:** Report on the English-Norwegian-Swedish Expedition to Spitsbergen, summer 1939.

Brief note on organization, itinerary and program of the expedition.

**Copy seen:** DGS.

**HEINTZ, ANATOL, 1898-**, *see also* Eides (J. W.) Forlag, Bergen. Svalbard, Norwegian outpost. 1950. No. 21619.

**22498. HEINTZLEMAN, B FRANK, 1888-**. Alaska. (In: The western range, 1936. Appendix, p. 581-98. Pub. as: 74th Congress, 2d session. Senate document no. 199)

Brief description of geographic and physical features, climate and population; analysis of the land status; vegetation, agriculture, reindeer raising, cattle and sheep raising, wildlife, and fire; with recommendations. **Copy seen:** DLC.

**HEINTZLEMAN, B FRANK, 1888-**, *see also* Forrest, G., & B F. Heintzleman. Land resources Alaska. 1944. No. 21872.

**22499. HEISKANEN, VEIKKO ALEKSANTERI, 1895-**. Investigations on the gravity formula. Helsinki, 1938. 22 p. tables. (Suomalainen tiedeakatemia. Annales Academiae scientiarum fennicae, A51:8)

The author computes corrections to the International gravity formula, which extend into the Arctic.

**Copy seen:** DLC.

**22500. HEISKANEN, VEIKKO ALEKSANTERI, 1895-**, and **ERKKI NISKANEN**. World maps for the indirect effect of the undulations of the geoid on gravity anomalies. Helsinki, 1941. 14 p., 2 fold. maps, tables. (Suomalainen tiedeakatemia. Annales Academiae scientiarum fennicae, A57:4) Publication of Isostatic Institute of the International Association of Geodesy, no. 7.

Contains data on gravity anomalies up to 70° + N. lat., and maps showing (1) the indirect effect of the undulations of the geoid on gravity values in zones 18 to 1; (2) all zones.

**Copy seen:** DLC.

**22501. HEIZER, ROBERT FLEMING, 1915-**. Incised slate figurines from Kodiak Island, Alaska. (American an-

tiquity, Jan. 1952. v. 17, no. 3, p. 266, illus.)

*Contains* a brief description and illus. of 25 figurines recently supplied by Mr. Donald Clark of Kodiak. They are discussed in relation to petroglyphs from Southeast Asia and British Columbia as "three links of a chain," with remark that at present they "appear to be a distinctive feature of the later, prehistoric Kodiak Island culture." Bibliography (2 items). *Copy seen:* DSI-M.

**22502. HEIZER, ROBERT FLEMING, 1915-** . Notes on Koniag material culture. (Alaska. University. Anthropological papers, 1952. v. 1, no. 1, p. 11-19, 2 illus., 4 plates)

*Contains* description of artifacts from Kodiak Islands to be attributed to the indigenous Koniags or Pacific Eskimos; besides familiar Eskimo items, there are some artifacts of Aleutian and Athabaskan Indian type, imported from the mainland. The collection is preserved at the University of California Museum of Anthropology in Berkeley and resulted from the activities of the Alaska Commercial Company some 60-70 years ago. The items described are: objects of dress and adornment (boots), hunting implements (spear-throwers, arrows, harpoons, lances and other fishing equipment), household implements and tools, and objects for ceremonial use. Bibliography (21 items). *Copy seen:* DLC.

**22503. HEIZER, ROBERT FLEMING, 1915-** . A Pacific Eskimo invention in whale hunting in historic times. (American anthropologist, Jan.-Mar. 1943. v. 45, no. 1, p. 120-22, plate)

*Contains* an account of "the standard Aleutian whale hunt" with lances having points poisoned with a preparation from the roots of aconite plants. This method was known to a select group and served as a basis for their social standing. Descriptions of native sea-otter hunting and its effects on whaling are also included. Bibliographic footnotes.

*Copy seen:* DSI-M.

**22504. HEIZER, ROBERT FLEMING, 1915-** . The sickle in aboriginal western North America. (American antiquity. Jan. 1951. v. 16, no. 3, p. 247-52. illus.)

*Contains* an account of the oldest sickles from the Near East, those of the aboriginal Kamchadals of the Kamchatka Peninsula, those in use on Kodiak Island and the sickles of aboriginal western

North America. The Kamchadal and Kodiak sickles are described as made from the shoulder blade of whales, curved and flat and keen; their possible derivation in this area is discussed. Bibliography (25 items). *Copy seen:* DSI-M.

**22505. HELAAKOSKI, A. R.** Havaintoja jäätyämisilmäiden geomorfologisista vaikutuksista. Helsingfors, 1912. vi, 108 p., illus. (Geografiska föreningen i Finland. Meddelanden, v. 9, no. 1) *Title tr.:* Observations on the geomorphological results of frost action.

*Contains* a study of the influence exerted by the ice cover and freezing, upon the bottom of the sea, lakes, rivers as well as bogs and solid ground. Conditions in the sea were largely investigated on the shores of the Gulf of Bothnia; freezing caused mainly a translocation of stones, gravel and other bottom material. Similar effects were observed in a lake, with trees growing on the shores often being overturned as a result of the lateral pressure of the lake's ice cover. Similar effects were observed in rivers, with the outgoing ice forming, in addition, mounds along the shores and carrying bottom material downstream. The effect of freezing on bogs though fundamentally similar, becomes more complicated when repeated thawing occurs and water penetrating under the ice crust becomes frozen again. The physical effects of freezing on solid ground, manifested largely by dislocations of various kinds, are described in detail. Summary in German. *Copy seen:* DLC.

**HELENELUND, K. V.,** *see* Kaitera, P., & K. V. Helenelund. Roudan syvyystä. 1947. No. 23070.

**22506. HELENIUS, OLLI.** Lappin alpiruusu (*Rhododendron lapponicum*) Inari Lapista. (Luonnon tutkija, 1948. v. 52, no. 4, p. 127) *Title tr.:* Lapland's alp-rose (*Rhododendron lapponicum*) at Inari, Finnish Lapland.

Report of a find of *Rhododendron lapponicum*, *Carex pedata*, *Pinguicula alpina*, *Diapensia*, *Loiseleuria* and *Salix glauca* at 69°57' N. lat. during the summer of 1948. *Copy seen:* DLC.

**22507. HELENIUS, OLLI.** Lintuhavaintoja luoteis-Utsjoelta. (Luonnon tutkija, 1948. v. 52, no. 4, p. 127-28) *Title tr.:* Bird observations in the southern part of the Utsjoki River area.

Report of eight species observed in northern Finland (69°45'–69°58' N. lat.) during the summer of 1948.

**Copy seen:** DLC.

**22508. HELLAND, AMUND THE-ODOR, 1846–1918.** Jordbunden i Norge. Kristiania, H. Aschehoug & Co., 1893. viii, 464 p. (Norges geologiske undersøgelse, no. 9) **Title tr.:** Soils of Norway.

Contains a general description of solid rock formations of Norway, data on surface soil and underlying loose deposits (gravel beds, clay beds, sand and alluvium). Then follows a survey of soils arranged by provinces, including Nordland (p. 362–87), Tromsø (p. 388–410), and Finnmark (p. 411–45). Areas (in sq. km.) of various rocks, arable land, meadow, forest, etc., are tabulated for specified districts, and general data shown for the whole country.

**Copy seen:** MH-Z.

**22509. HELLAND, AMUND THE-ODOR, 1846–1918.** Lofoten og Vesteraalen. Kristiania, H. Aschehoug & Co., 1897. vi, 545 p. (Norway. Norges geologiske undersøgelse, no. 23.) **Title tr.:** Lofoten and Vesteraalen.

Contains a comprehensive study of these two groups of islands off northwest Norway: geographical position, area, limits, orography and geology (p. 8–90); sounds, fiords and shore-lines (p. 91–116); fisheries (p. 117–93); soils and agriculture (p. 194–224); vegetation, with a list of about 250 plants (p. 225–249); fauna and game animals (p. 250–76). Then follows (p. 277–536) a survey of Lofoten and Vesteraalen arranged by administrative districts ("hereed"), and indices (p. 537–45).

**Copy seen:** DLC; MH-Z.

**22510. HELLAND, AMUND THE-ODOR, 1846–1918.** Mikroskopisk undersøgelse af en del bergarter i det nordlige Norge. (Tromsø, Museum. Aarshefter, 1878. Bd. 1, p. 1–23) **Title tr.:** Microscopic investigation of the rock species of northern Norway.

Contains data on the microscopic study of rocks found in coastal regions of northern Norway (Tromsø and Finnmark), including such rocks as olivine-gabbro, gabbro, saussurite, olivine, diabase, diorite, eklogite and serpentine from 23 localities of northern Norway.

**Copy seen:** DSI-M; MH-Z.

**22511. HELLAND-HANSEN, BJØRN, 1877–**. Remarks on some variations in atmosphere and sea. (*In:* Glaciers and climate, pub. in Geografiska annaler, 1949. Årg. 31, häft. 1–4, p. 75–82, 3 fig.)

"Comparison of long records (tree-rings, etc.) shows that variations of climate differ in different regions. Correlation between temperature and solar constant positive where isotherms bend poleward, negative where they bend equatorward. Temperature and salinity of eastern North Atlantic have increased since 1914; both deep water and air temperatures are related to atmospheric circulation."—*Meteorological abstracts and bibliography*, July 1950. v. 1, no. 7, p. 440. Includes bibliography.

**Copy seen:** DGS; MH-BH.

**HELLAND-HANSEN, BJØRN, 1877–**, see also Montgomery, R. B. Discussion temperature variations. 1940. No. 24447.

**22512. HELLE, E. J.** Suomen valtion uusin jäänmurtaja s/s Jääkarhu. (Teknillinen aikakauslehti, 1927. v. 17, p. 288–96, illus.) **Title tr.:** The newest Finnish ice-breaker S. S. Jääkarhu.

Contains data (with scaled drawings) on the design, construction and performance of this ice-breaker built in Rotterdam for the Finnish government, also comparative data on the Finnish-built ice-breaker *Väinämöinen*.

**Copy seen:** DLC.

**22513. HELLE, E. J.** Suomen valtion uusi jäänsärkijä, "Voima". (Teknillinen aikakauslehti, 1924. v. 14, no. 5–6, p. 295–301, illus., diagrs.) **Title tr.:** The Finnish government's new icebreaker *Voima*.

Contains data (with scaled drawings) on the construction of this ice-breaker built in the Hietalahti Shipyards at Helsinki. Author discusses characteristics of hull, engines, propellers, etc. In a test run this ship (64.20 meters long, 2050 tons) broke through solid ice 500 mm. deep at 14.2 knots, producing 4154 horsepower.

**Copy seen:** DLC.

**22514. HELLÉN, WOLTER, 1890–**. Die *Asyncrita*-Arten Finnlands (Hym. Ichn.). (Notulae entomologicae, 1944. v. 24, no. 1–2, p. 11–13) **Title tr.:** *Asyncrita* species of Finland (Hym. Ichn.).

Contains a table for the determination of four ichneumon flies of the hymenop-

terous genus *Asyncrita* of Finland, and descriptions of *A. canaliculata* n. sp., native to Paanajärvi, Kuusamo region, and *A. foveolata* from Petsamo region.

**Copy seen:** DLC; MH-Z.

**22515. HELLÉN, WOLTER, 1890-.** Die Carabenfauna Finnlands. (Notulae entomologicae, 1934. v. 14, no. 1-2, p. 36-45, illus.) **Title tr.:** *Carabus* fauna of Finland.

**Contains** a systematic list of 12 species of ground beetles of the genus *Carabus*, encountered in Finland, and a few lower forms, including five species native to Finnish Lapland.

**Copy seen:** DLC; MH-Z.

**22516. HELLÉN, WOLTER, 1890-.** De nordiska arterna av släktet *Dryops* Oliv. (Col.). (Notulae entomologicae, 1923. v. 3, no. 3, p. 84-86, illus.) **Title tr.:** On northern species of the genus *Dryops* Oliv. (Col.).

**Contains** a key to the species of the coleopterous genus *Dryops* and brief descriptions and data on distribution of six species. Includes *D. auriculatus* from Swedish Lapland and *D. ernesti* occurring in Tortuola (66°30' N.), Finland and Sydvaranger (69° N.), Norway.

**Copy seen:** DLC; MH-Z.

**22517. HELLÉN, WOLTER, 1890-.** Die Empria-Arten Finnlands (Hym., Tenth.). (Notulae entomologicae, 1940, v. 20, no. 1, p. 1-10) **Title tr.:** *Empria* species of Finland. (Hym., Tenth.).

**Contains** a critical revision of Finnish species of hymenopterous genus *Empria*, with a key to the species and a systematic list of ten species, with brief descriptions and data on Scandinavian and total distribution of these sawflies; includes ten species native to Finnish and Russian Lapland.

**Copy seen:** DLC; MH-Z.

**22518. HELLÉN, WOLTER, 1890-.** Die Evaniiden Finnlands (Hym.). (Notulae entomologicae, 1950. v. 30, no. 1-2, p. 1-5) **Title tr.:** *Evaniidae* of Finland.

**Contains** a critical study of parasitic ensign flies (*Evaniidae*) native to Finland, with a key to the species and a list of one species of *Aulacidae* and seven of *Evaniidae*, including *Aulacus striatus* from Kuusamo region and *Gasteruption assectator* and *Brachygaster minutus* occurring in Kuusamo and Finnish Lapland (Kemi, Inari and Petsamo region).

**Copy seen:** DLC; MH-Z.

**22519. HELLÉN, WOLTER, 1890-.** Finnlands *Haliphus*-arter (Col.). (Notulae entomologicae, 1936. v. 16, no. 2, p. 64) **Title tr.:** *Haliphus* (Col.) species of Finland.

**Contains** a list of 14 Finnish species of the coleopterous genus *Haliphus* with data on distribution, including four species native to Finnish Lapland.

**Copy seen:** DLC; MH-Z.

**22520. HELLÉN, WOLTER, 1890-.** Für die Fauna Finnlands neue Braconiden (Hym.) I-II. (Notulae entomologicae, 1938, v. 18, no. 3, p. 108-114; (II) 1945, v. 25, no. 4, p. 130-37) **Title tr.:** Braconidae new to the fauna of Finland, I-II.

**Contains** (in pt. I) a systematic list of about 90 species of hymenopters of the family Braconidae new to the fauna of Finland (five new aberrations described), including seven species native to northern Finland. In pt. II, is a systematic list of 100 braconids new to Finland including 12 species from northern regions.

**Copy seen:** DLC; MH-Z.

**22521. HELLÉN, WOLTER, 1890-.** Für die Fauna Finnlands neue Ichneumoniden (Hym.) I, Ichneumoninae; II, Cryptinae, Pimplinae; III, Banchinae, Bassinae, Mesochorinae, Orthocentrinae, Exochinae; IV, Tryphoninae. (Notulae entomologicae, 1936, v. 16, no. 4, p. 101-109; (II) 1937, v. 17, no. 1, p. 5-13; (III) no. 2, p. 52-56; (IV) no. 4, p. 123-130).

**Contains** (in pts. I-IV) a systematic list of 390 species of ichneumon flies (fam. Ichneumonidae) in seven subfamilies, new to hymenopterous fauna of Finland, including at least 60 species, native to Kuusamo and Finnish Lapland; distribution in Russian Lapland is also cited, and some new aberrations listed.

**Copy seen:** DLC; MH-Z.

**22522. HELLÉN, WOLTER, 1890-.** Hemiptera från Enare Lappmark. (Notulae entomologicae, 1932. v. 12, no. 2-3, p. 58-59) **Title tr.:** Hemiptera from Inare Lappmark.

**Contains** a list of 15 species of Hemiptera and 17 of Cicadina collected by the author during his trip to Inare Lappmark, northern Finland.

**Copy seen:** DLC; MH-Z.

**22523. HELLÉN, WOLTER, 1890-.** Hemipterologische Notizen aus Finland. (Notulae entomologicae, 1926. v. 6.

no. 1, p. 9-15) **Title tr.:** Hemipterological notes from Finland.

**Contains** a systematic list of 45 rare or otherwise interesting bugs from various regions of Finland, with data on their distribution and biology and occasional critical notes. Includes *Nysius ericae* v. *obscuratus*, occurring in Lapland, and *Reduviolus inscriptus* from Kantalaks, Kemi region, northern Finland.

**Copy seen:** DLC; MH-Z.

**22524. HELLÉN, WOLTER, 1890- .** Hymenoptera Aculeata aus Finnmarken in Norwegen. (Notulae entomologicae, 1933. v. 13, no. 1-2, p. 41-43) **Title tr.:** Hymenoptera Aculeata from Finnmark, Norway.

**Contains** a systematic list of 14 species of bumblebees and three of wasps, collected in 1924 in Finnmark, northern Norway, and determined by the author; six aberrations of *Bombus lapponicus* are described.

**Copy seen:** DLC; MH-Z.

**22525. HELLÉN, WOLTER, 1890- .** Die Ichneumonidentypen F. W. Woldstedts. (Notulae entomologicae, 1950. v. 30, no. 1-2, p. 26-31) **Title tr.:** The types of Ichneumonidae of F. W. Woldstedt.

**Contains** a critical revision of ichneumon fly types, described by F. W. Woldstedt in his *Bidrag till kännedom af Finlands Tryphonider*, 1874, q. v., with reduction of some of them to synonyms; includes *Mesoleius palmeni*, *M. autumnalis* and *Polyblastus holmgreni* from Finnish Lapland and *Polyselasmus frigidus* from Russian Lapland.

**Copy seen:** DLC; MH-Z.

**22526. HELLÉN, WOLTER, 1890- .** Die in Finnland gefundenen Arten der Gattung *Platylabus* Wesm. (Hym. Ich.). (Notulae entomologicae, 1930. v. 10, no. 3, p. 71-73) **Title tr.:** Species of the genus *Platylabus* Wesm. (Hym. Ich.) found in Finland.

**Contains** a list of 13 ichneumon flies of dipterous genus *Platylabus* native to Finland, including *P. borealis* from Finnish and Russian Lapland.

**Copy seen:** DLC; MH-Z.

**22527. HELLÉN, WOLTER, 1890- .** Die in Finnland gefundenen Formen der Gattung *Eumenes* F. (Hym. Vesp.). (Notulae entomologicae, 1944. v. 24, no. 1-2, p. 10-11) **Title tr.:** The forms of the genus *Eumenes* occurring in Finland.

**Contains** a table for the determination of four Finnish forms of hymenopterous genus *Eumenes*, including brief description of *Eumenes pedunculata* var. *lapponica* n. var. found in Muonio, Kemi Lappmark.

**Copy seen:** DLC; MH-Z.

**22528. HELLÉN, WOLTER, 1890- .** Koleopterologische Mitteilungen aus Finnland, I-XVII. (Notulae entomologicae, 1921, v. 1, no. 2, p. 43-46; (II) no. 4, p. 97-103; (III) 1922, v. 2, no. 3, p. 85-90; (IV) 1923, v. 3, no. 1, p. 13-17; (V) 1924, v. 4, no. 3, p. 87-92; (VI) 1926, v. 6, no. 4, p. 102-106; (VII) 1927, v. 7, no. 4, p. 116-20; (VIII) 1930, v. 10, no. 3, p. 74-79; (IX) 1932, v. 12, no. 1, p. 4-8; (X) 1933, v. 13, no. 1-2, p. 37-40; (XI) 1934, v. 14, no. 1-2, p. 52-59; (XII) no. 3, p. 81-87; (XIII) 1935, v. 15, no. 3, p. 89-93; (XIV) 1936, v. 16, no. 2, p. 33-38; (XV) 1937, v. 17, no. 2, p. 62-65; (XVI) 1939, v. 19, no. 1-2, p. 31-34; (XVII) 1946, pub. 1947, v. 26, no. 3-4, p. 76-82) **Title tr.:** Coleopterological notes from Finland.

**Contains** critical notes on 348 species of beetles occurring in Finland, with descriptions of a few new species and forms, includes some species native to northern regions of Finnish and Russian Lapland.

**Copy seen:** DLC; MH-Z.

**22529. HELLÉN, WOLTER, 1890- .** Mitteilungen über einige Tenthredinoiden aus Ostfennoskandien. (Notulae entomologicae, 1948, v. 28, no. 1-2, p. 40-46) **Title tr.:** Notes on some Tenthredinoidea from eastern Fennoscandia.

**Contains** critical notes on about 40 species of tenthredinoids inhabiting eastern Fennoscandia, including *Rhadinoceraea subarctica* found on the southern coast of Kola Peninsula, and five other species native to Kuusamo region and Finnish Lapland.

**Copy seen:** DLC; MH-Z.

**22530. HELLÉN, WOLTER, 1890- .** Mitteilungen über einige Tenthredinoiden Finnlands. (Notulae entomologicae, 1935, v. 15, no. 1-2, p. 15-26) **Title tr.:** Notes on some Tenthredinoidea of Finland.

**Contains** a systematic list of 86 sawflies occurring in Finland (one species and four aberrations described as new), including *Entodecta tenuicornis* n. sp. and 12 other species native to Finnish Lapland, Kuusamo and Kola Peninsula.

**Copy seen:** DLC; MH-Z.

**22531. HELLÉN, WOLTER, 1890-** . Mitteilungen über einige Tenthredinoiden Finnlands, II. (Notulae entomologicae, 1943. v. 23, no. 1-2, p. 63-64; no. 3-4, p. 65-72) **Title tr.:** Notes on some Tenthredinoidea of Finland, II.

*Contains* a systematic list of about 100 sawflies occurring in Finland, including at least 15 species native to Russian and Finnish Lapland.

**Copy seen:** DLC; MH-Z.

**22532. HELLÉN, WOLTER, 1890-** . Neue Beiträge zur Kenntnis der *Chilosia*-Arten (Dipt.) Finnlands. (Notulae entomologicae, 1929. v. 9, no. 4, p. 100-109, illus.) **Title tr.:** New contributions to the knowledge of *Chilosia* species of Finland.

*Contains* a list of 41 Finnish species of dipterous genus *Chilosia* with 18 occurring in Finnish Lapland (67°-70° N.) and critical notes on 36 species, including 11 native to Finnish Lapland, Kuusamo region and Kola Peninsula.

**Copy seen:** DLC; MH-Z.

**22533. HELLÉN, WOLTER, 1890-** . Eine neue *Europhilus*-Art aus Finnland (Col.). (Notulae entomologicae, 1935. v. 15, no. 3, p. 87-89, illus.) **Title tr.:** A new species of *Europhilus* (Col.) from Finland.

*Contains* a key to five species of coleopterous genus *Europhilus* occurring in Finland, including *E. consimilis* native to Kuusamo, Finnish and Russian Lapland, *E. munsteri* n. sp. a vicarious species (in southern Sweden) for *E. consimilis* and *E. aldanicus* native to Kola Peninsula and also known from the Lena River region (Ust' Aldan).

**Copy seen:** DLC; MH-Z.

**22534. HELLÉN, WOLTER, 1890-** . Neue Ichneumoniden aus Ostfennoskandien, I. (Notulae entomologicae, 1951. v. 31, no. 1-2, p. 25-31) **Title tr.:** New Ichneumonidae from eastern Fennoscandia, I.

*Contains* diagnoses of nine Fennoscandian ichneumon flies new to science, including *Ichneumon erythronotus* and *I. lapponicus* n. spp. found in Finnish Lapland and *I. laenibasis* from Kola Peninsula.

**Copy seen:** DLC; MH-Z.

**22535. HELLÉN, WOLTER, 1890-** . Neue paläarktische Nematinen (Hym., Tenthredinidae). (Notulae entomologicae, 1947, pub. 1948. v. 27, no. 2-4, p. 113-17) **Title tr.:** New palaeartic Nematinae (Hym., Tenthredinidae).

*Contains* diagnoses of seven new species and four varieties of palaeartic sawflies including *Nematus* (*Amauronematus*) *longicauda* native to Finnish and Russian Lapland and Kanin Peninsula, *N. (Pteronidae)* *pyramidalis* from Dudinka, Yenisey River region, *N. (Pachynematus)* *acutiventris* and *N. (Pristifora)* *bifidus* from Finnish Lapland, and two new varieties from Finnish and Russian Lapland.

**Copy seen:** DLC; MH-Z.

**22536. HELLÉN, WOLTER, 1890-** . Neue paläarktische Nematinen (Hym., Tenthredinidae) II. (Notulae entomologicae, 1951. v. 31, no. 3-4, p. 106-109) **Title tr.:** New palaeartic Nematinae (Hym., Tenthredinidae) II.

*Contains* diagnoses of four new sawflies: *Amauronematus speciosus* and *A. lindqvisti* n. spp. native to Finnish and Swedish Lapland, *A. rubiginosus* n. sp. collected at Dudinka on the lower Yenisey River in Siberia, and *Pteronidea pallidinervis* n. sp. from the Kuusamo region and Finnish Lapland. This is a continuation of the author's *Neue paläarktische Nematinen* 1948, q. v.

**Copy seen:** MH-Z.

**22537. HELLÉN, WOLTER, 1890-** . Neue Tenthredinoidenfunde aus Finland. (Notulae entomologicae, 1933. v. 13, no. 1-2, p. 1-3) **Title tr.:** New Tenthredinoidea finds in Finland.

*Contains* critical notes on 12 sawflies new to the fauna of Finland, including *Tenthredo velox*, found in Kemi Lappmark, and previously known from Siberia and northern Sweden, and *Dolerus carbonarius* occurring in Enontekiö region, Finnish Lapland.

**Copy seen:** DLC; MH-Z.

**22538. HELLÉN, WOLTER, 1890-** . Die nordeuropäischen Arten der Gattung *Mycetoporus* Mann. (Col.). (Notulae entomologicae, 1925. v. 5, no. 2, p. 33-47) **Title tr.:** North European species of the genus *Mycetoporus* Mann.

*Contains* a key to the species of coleopterous genus *Mycetoporus*, a list of 21 species occurring in northern Europe, including ten native to northern regions of Scandinavia and European U.S.S.R., with critical notes and data on their distribution in Europe and in Asia (Siberia) and a bibliography (41 items).

**Copy seen:** DLC; MH-Z.

**22539. HELLÉN, WOLTER, 1890-** . Nya fyndlokaler för Neuroptera. (Notulae entomologicae, 1921. v. 2, no. 1, p.

24-25) **Title tr.:** New localities for Neuroptera.

Contains a list of 28 neuropterans new to the insect fauna of various regions, including *Sialis lutaria* found in Kusomen, Russian Lapland.

**Copy seen:** DLC; MH-Z.

**22540. HELLÉN, WOLTER, 1890- .** Nya skalbaggar från Petsamo. (Notulae entomologicae, 1929. v. 9, no. 4, p. 128) **Title tr.:** New beetles from Petsamo.

Contains a brief report, without a formal title, made during the meeting of Helsinki Entomological Society (May 27, 1929) on 12 beetles new to the coleopterous fauna of Finland, including *Olophorum helleni*, *Bledius krogeri*, *Myllaena scheerpeltzi* and *Hippuriphila glabricollis* new to science, and eight other species native to the Petsamo (Pechenga) region, Finnish Lapland.

**Copy seen:** DLC; MH-Z.

**22541. HELLÉN, WOLTER, 1890- .** Skalbaggsformer funna i Finland. (Notulae entomologicae, 1939. v. 19, no. 1-2, p. 34-37) **Title tr.:** Beetle forms found in Finland.

Contains a list of over 50 beetle forms occurring in Finland, including 11 aberrations encountered in Kuusamo, and Finnish and Russian Lapland.

**Copy seen:** DLC; MH-Z.

**22542. HELLÉN, WOLTER, 1890- .** Till kännedom om våra Mallophager. (Notulae entomologicae 1924. v. 4, no. 1, p. 29-30) **Title tr.:** A contribution to the knowledge of the bird lice of Finland.

Contains a list of 13 biting or bird lice (Mallophaga) with data on their distribution in Finland, and host birds, including *Trinoton luridum* (Muonioniska, Finland), *Nirmus fuscus* (Enontekiö region) and *N. cingulatus* (Muonio).

**Copy seen:** DLC; MH-Z.

**22543. HELLÉN, WOLTER, 1890- .** Über die *Haemonia*-Arten Finnlands (Col.). (Notulae entomologicae, 1937. v. 17, no. 1, p. 1-4) **Title tr.:** On *Haemonia* species of Finland. (Col.).

Contains a key for the determination of the aquatic beetles of the genus *Haemonia* occurring in Finland, a diagnosis of *H. mutica lapponica* n. var. found still living in the intestine of a fish (*Thymallus vulgaris*) in a small lake in Petsamo region, and descriptive notes on other species and aberrations of the same genus.

**Copy seen:** DLC; MH-Z.

**22544. HELLÉN, WOLTER, 1890- .** Übersicht der Ibalinen und Figitinen Finnlands. (Hym. Cyn.). (Notulae entomologicae, 1937. v. 17, no. 2, p. 65-71) **Title tr.:** A revision of Ibalinae and Figitinae of Finland. (Hym. Cyn.)

Contains a critical revision of 26 species (one new) of hymenoptera of subfamilies Ibalinae and Figitinae (fam. Cynipidae) occurring in Finland, including five species native to Finnish and Russian Lapland.

**Copy seen:** DLC; MH-Z.

**22545. HELLÉN, WOLTER, 1890- .** Übersicht der Ptiniden (Col.) Finnlands. (Notulae entomologicae, 1925. v. 5, no. 4, p. 118-23) **Title tr.:** Revision of Ptinidae (Col.) of Finland.

Contains a critical revision of Finnish species of coleopterous family Ptinidae with synopsis of the genera and species and critical notes on 11 beetles of this family, including *Tipnus unicolor*, *Ptinus raptor* and *P. villiger* from Finnish and Russian Lapland (Ponoy 67°10' N. lat.).

**Copy seen:** DLC; MH-Z.

**22546. HELLÉN, WOLTER, 1890- .** Veränderungen in der Kenntnis der Insektenfauna Finnlands bis zum Jahr 1921. (Notulae entomologicae, 1921, v. 1: no. 2, p. 59-64; no. 3, p. 92-96; no. 4, p. 120-28; 1922, v. 2: no. 4, p. 123-28; 1923, v. 3: no. 1, p. 29-32, no. 2, p. 60-64) **Title tr.:** Changes in the knowledge of insect fauna of Finland prior to 1921.

Contains a systematic list of additions to (newly discovered species, varieties raised to the status of species, etc.) and exclusions (wrongly described species, species reduced to varieties or synonyms, species wrongly recorded in Finland, etc.) from the insect fauna of Finland prior to 1921 (ca. 1839-1920). List of abbreviated personal names and periodicals used throughout the text, appears at beginning of the work, a statistical table at the end of the work (v. 3, p. 63); includes many species native to northern regions of Finland. This study was continued as the author's *Verzeichnis . . . in 1921-1925*, 1926, q. v.

**Copy seen:** DLC; MH-Z.

**22547. HELLÉN, WOLTER, 1890- .** Verzeichnis der in den Jahren 1921-1925 für die Fauna Finnlands neu hinzugekommenen Insektenarten. (Notulae entomologicae, 1926. v. 6, no. 1, p. 27-32; no. 2, p. 60-64; no. 3, p. 90-96) **Title tr.:** A list of species added to the insect fauna of Finland for the years 1921-25.

*Contains* in this work with a somewhat misleading title, a systematic list of additions (Zugänge) to, and exclusions (Abgänge) from the insect fauna of Finland for the years 1921-25. The inventory includes some arctic species. Developing out of the author's *Veränderungen in . . . Insektenfauna . . . 1921, q. v.*, this became the first of a series of five-year reviews which continues to the present time. **Copy seen:** DLC; MH-Z.

**22548. HELLÉN, WOLTER, 1890- .** Verzeichnis der in den Jahren 1926-1930 für die Fauna Finnlands neu hinzugekommenen Insektenarten. (Notulae entomologicae, 1931. v. 11, no. 2, p. 51-66) **Title tr.:** A list of species added to the insect fauna of Finland for the years 1926-30.

*Contains* a systematic list of added and excluded species of the insect fauna of Finland for the years 1926-30, including some arctic species.

**Copy seen:** DLC; MH-Z.

**22549. HELLÉN, WOLTER, 1890- .** Verzeichnis der in den Jahren 1931-1935 für die Fauna Finnlands neu hinzugekommenen Insektenarten. (Notulae entomologicae, 1936. v. 16, no. 2, p. 43-63) **Title tr.:** A list of species added to the insect fauna of Finland for the years 1931-35.

*Contains* a systematic list of insect species added to and excluded from the fauna of Finland for the years 1931-35, including some arctic species.

**Copy seen:** DLC; MH-Z.

**22550. HELLÉN, WOLTER, 1890- .** Verzeichnis der in den Jahren 1936-1940 für die Fauna Finnlands neu hinzugekommenen Insekten-Arten. (Notulae entomologicae, 1941. v. 21, no. 1, p. 44-48; no. 2, p. 77-80; no. 3, p. 81-98) **Title tr.:** A list of species added to the insect fauna of Finland for the years 1936-40.

*Contains* a systematic list of insect species added to and excluded from fauna of Finland for the years 1936-40, including some arctic species.

**Copy seen:** DLC; MH-Z.

**22551. HELLÉN, WOLTER, 1890- .** Verzeichnis der in den Jahren 1941-1945 für die Fauna Finnlands neu hinzugekommenen Insektenarten. (Notulae entomologicae, 1946, pub. 1947, v. 26, no. 3-4, p. 122-42) **Title tr.:** A list of species added to the insect fauna of Finland for the years 1941-45.

*Contains* a systematic list of the species added and excluded, during 1941-45: 1026 species were added bringing the number of all known insect species in Finland up to 14,349. Some arctic species are included. **Copy seen:** CU.

**22552. HELLÉN, WOLTER, 1890- .** Verzeichnis der in den Jahren 1946-1950 für die Fauna Finnlands neu hinzugekommenen Insektenarten. (Notulae entomologicae, 1952. v. 32, no. 1-3, p. 59-80) **Title tr.:** A list of species added to the insect fauna of Finland for the years 1946-1950.

*Contains* a systematic list of the added and excluded species, with 687 species added bringing the number of all known species in Finland up to 15,036. Includes some arctic species. This is the latest of the series of such works for five-year periods from 1921-25 (pub. 1926).

**Copy seen:** MH-Z.

**22553. HELLÉN, WOLTER, 1890- .** Verzeichnis der in Ostfennoskandien nur aus den russischen und norwegischen Teilen bekannten Käferarten nebst Bemerkungen über ihr heutiges Vorkommen in Finnland. (Notulae entomologicae, 1930, v. 10, no. 1, p. 1-17, map) **Title tr.:** A list of beetles of eastern Fennoscandia previously known only from its Norwegian and Russian sections with notes on their present-day occurrence in Finland.

*Contains* a discussion of the natural (non-political) limits of Fennoscandia and a list of 71 species of beetles, previously known only from northern Norway or Russian Lapland and Karelia, but now found in Finland; also synonyms, wrongly described and doubtful species (small type). At least 36 species native to Finnish and Russian Lapland are included. Bibliography (71 items).

**Copy seen:** DLC; MH-Z.

**22554. HELLÉN, WOLTER, 1890- .** Zur Ichneumonidenfauna Finnlands (Hym.) I-VI. (Notulae entomologicae, 1939, v. 19, no. 1-2, p. 51-63; (II) 1940, pub. 1941, v. 20, no. 1-2, p. 42-53; (III) 1942, v. 22, no. 1-2, p. 77-82; (IV) 1944, v. 24, no. 1-2, p. 1-9; (V) 1946, v. 26, no. 1-2, p. 1-12; (VI) 1948, v. 28, no. 1-2, p. 46-51)

*Contains* systematic lists of ichneumon flies new to hymenopterous fauna of various regions of Finland, or to the whole country. Besides these additions,

some species are excluded as wrongly described, reduced to synonyms or wrongly recorded in Finland. Many species native to northern regions of Finland are included.

**Copy seen:** DLC; MH-Z.

**22555. HELLÉN, WOLTER, 1890- .** Zur Ichneumonidenfauna (Hym.) Finnlands VII. (Notulae entomologicae, 1951. v. 31, no. 3-4, p. 92-106) **Title tr.:** Contributions to the Ichneumonidae fauna (Hym.) of Finland, VII.

**Contains** a systematic list of 45 species of ichneumon flies new to hymenopterous fauna of Finland and 43 new to various regions of the country, including at least 11 species native to Finnish Lapland. This is a continuation of the author's *Zur Ichneumonidenfauna, I-VI*, 1939-48, q. v.

**Copy seen:** MH-Z.

**22556. HELLÉN, WOLTER, 1890- .** Zur Kenntnis der Encyrtiden (Hym., Chalcididae) Finnlands. (Notulae entomologicae, 1949. v. 29, no. 1-2, p. 41-50) **Title tr.:** A contribution to the knowledge of the encyrtids of Finland.

**Contains** a critical revision of this family of small chalcid flies, the Encyrtidae with a list of about 60 species and varieties, critical notes and data on European distribution, including at least five species native to Kuusamo and Finnish Lapland.

**Copy seen:** DLC; MH-Z.

**22557. HELLÉN, WOLTER, 1890- .** Zur Kenntnis der Ophioninen-Gattungen *Barylypa* Först., *Labrorhynchus* Först. und *Agrypnon* Först. (Notulae entomologicae, 1950. v. 30, no. 1-2, p. 31-38) **Title tr.:** A contribution to the knowledge of the Ophioninae genera; *Barylypa* Först., *Labrorhynchus* Först. and *Agrypnon* Först.

**Contains** a table for the determination of the species of ichneumon flies of the genus *Agrypnon* (divided in three subgenera: *Barylypa*, *Labrorhynchus* and *Agrypnon* (s. str.)) and an enumeration of 16 species (three described as new) including *Agrypnon* (L.) *flexorium* native to Kuusamo and A. (s. str.) *flavolatum* from Utsjoki in Finnish-Lapland.

**Copy seen:** DLC; MH-Z.

**22558. HELLÉN, WOLTER, 1890- .** Zur Kenntnis der sibirischen Arten der Gattung *Chilosia* Meig. (Dipt.) (Notulae entomologicae, 1930. v. 10, no. 1, p. 26-29, illus.) **Title tr.:** A contribution to the knowledge of Siberian species of the genus *Chilosia* Meig. (Dipt.).

**Contains** a list of 12 (four new) Siberian species of the dipterous genus *Chilosia*, including *C. kamschatica*, *C. reniformes* and *C. magnifica* n. spp. and four other species described earlier, native to Kamchatka Peninsula (Ozernaya) and two species from Zhigansk region, Yakut A.S.S.R.

**Copy seen:** DLC; MH-Z.

**22559. HELLÉN, WOLTER, 1890- .** Zur Kenntnis einiger Dytisciden Finnlands. (Notulae entomologicae, 1929. v. 9, no. 2, p. 34-64) **Title tr.:** A contribution to the knowledge of some Swedish Dytiscidae.

**Contains** a critical revision of diving beetles (fam. Dytiscidae) of Finland with a systematic list of 44 species (two new), including *Agabus* (*Gaurodytes*) *leanderi* n. sp. (Varzuga region, Kola Peninsula) and 13 others native to Finnish and Russian Lapland; also a simple list giving distributional data for about 125 diving beetles of Finland, 74 of these occurring in Finnish Lapland.

**Copy seen:** DLC; MH-Z.

**22560. HELLÉN, WOLTER, 1890- .** Zwei neue *Chilosia*-Arten (Dipt., Syrphidae) aus Ostfennoskandien. (Notulae entomologicae, 1949, pub. 1950. v. 29, no. 3-4, p. 90-91) **Title tr.:** Two new *Chilosia* species (Dipt. Syrphidae) from eastern Fennoscandia.

**Contains** diagnoses of two new species of syrphus flies, *Chilosia* (*Anochaeta* n. subgen.) *freyi*, collected by R. Frey in Utsjoki in Inari Lappmark, and *C. (s. str.) borealis* found in a moor in Paanajärvi in the Kuusamo region.

**Copy seen:** DLC; MH-Z.

**HELLÉN, WOLTER, 1890- , see also** Hackman, W. Spindlar Kilpisjärvi. 1952. No. 22326.

**HELLÉN, WOLTER, 1890- , see also** Kanervo, E. Syrphiden aus Finnish Lapland. 1938. No. 23107.

**HELLÉN, WOLTER, 1890- , see also** Lindqvist, E. Hymenoptera tenthredinoidea. 1951. No. 23896.

**22561. HELLER, CHRISTINE A.** Alaska nutrition survey report: dietary study. (Alaska's health, Oct. 1948. v. 6, no. 10, p. 7-9).

Dietary investigations of the Alaska nutrition survey, Apr.-June 1947, showed prevalent deficiencies in vitamins C and A. Author discusses natural sources of both vitamins readily accessible to the

Eskimos, also the inferior diet of the Eskimo women, infants and adolescents; and makes recommendations.

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**22562. HELLER, CHRISTINE A.** Food and dental health. (Alaska's health, Dec. 1946. v. 4, no. 12, p. [4-5]).

Notes on the hygiene of Alaskan Eskimo and Indian teeth, before and after changes in their traditional diet due white man's influence; problems peculiar to Alaskan children's teeth.

*Copy seen:* DLC.

**22563. HELLER, JACQUES.** Nord, récit de l'arctique. Paris, Grasset, 1928. 241 p. *Title tr.:* North, a tale of the Arctic.

Story of a young Frenchman living for three years as a trapper among the Eskimos of the Baker Lake Region northwest of Hudson Bay.

*Copy seen:* DLC.

**HELLSTERN-NIELSEN, CHR.,** *translator, see* Bagrov, L. V. Bering first voyage maps. 1950. No. 20406.

**22564. HELMERICKS, CONSTANCE, 1918- , and H. HELMERICKS.** The flight of the *Arctic Tern*. Boston, Little, Brown [1952]. 321 p. illus.

Contains the story of the authors' flight in their airplane *Arctic Tern* from the eastern U. S. to Barter Island, Alaska; their life there; a flight over northern Canada and adventures of a search party in the area of the Magnetic Pole; further experiences in arctic plane travel in summer and winter, with anecdotes of camping, Eskimo life, hunting, etc.

*Copy seen:* DLC.

**22565. HELMERICKS, CONSTANCE, 1918- , and H. HELMERICKS.** Our summer with the Eskimos. London, Museum Press [1952]. 255 p. illus.

English edition of a popular work published in 1948 (*Arctic Bibliography* No. 6950)

*Copy seen:* DLC.

**HELMERICKS, HARMON,** *see* Helmericks, C., & H. Helmericks. Flight of *Arctic Tern*. 1952. No. 22564.

**HELMERICKS, HARMON, 1917- ,** *see* Helmericks, C., & H. Helmericks. Our summer with Eskimos. 1952. No. 22565.

**HELTZEN, J.,** *see* Stejneger, L. H. Ornithol. Norwegen. 1873. No. 26424.

**22566. HEMINGWAY, ALLAN.** Physiological effects of heat and cold. 1 (Annual review of physiology, 1945, v. 7, p. 163-80)

Review of publications that appeared since 1940 on the subjects of: nervous control of temperature regulation; endocrine control of physiological temperature regulation; circulation; physiological response to warm environment; body temperatures and their variations; age and temperature regulation; comparative physiology of temperature regulation; hypothermia; tissue injury caused by cold (frostbite). Bibliography (58 items).

*Copy seen:* DSG.

**22567. HEMINGWAY, ALLAN.** The standardization of temperature regulatory responses of dogs to cold. (American journal of physiology, Mar. 1940. v. 128, p. 736-46, 2 fig.)

Contains a report of observations on dogs exposed to an environment of a fixed, cool temperature, fixed humidity and air movement, and submitted to measurements of respiratory rate, shivering, rectal and skin temperatures. After vasoconstriction and shivering occurred, the dogs were warmed by diathermy at a heating rate equal to the b. m. r. From the graphs, the skin and rectal temperature thresholds were obtained for vasoconstriction, vasodilatation and shivering. These values, obtained in a controlled environment, with a controlled heating rate, are to be used as "normal standards" in studies on impairment of the temperature regulatory mechanism caused by drugs or lesions. Bibliography (15 items).

*Copy seen:* DLC.

**22568. HEMSTOCK, RUSSELL A.** Engineering in permafrost in Canada's Mackenzie valley. (International Conference on Soil Mechanics and Foundation Engineering. 2d, Rotterdam, June 1948. Proceedings. v. 4, p. 62-64, illus. Also pub. as: National Research Council of Canada. Associate Committee on Soil and Snow Mechanics. Technical memorandum no. 13, June 1949)

"Permafrost extends to a depth of 150 ft. at Norman Wells with seasonal thawing occurring in the first 5 ft. Special construction procedures must be observed to avoid settling and heaving damages. Conventional construction during the Canol project resulted in extensive deformation of buildings during the first

six years. Steam jets are used for digging the holes for the piles. The construction plans included an air space between the ground and the floor. Utility pipes are usually placed above ground supported by iron piles at 7-9 ft. intervals. Frost action is diminished on roads and airstrips when moss and scrub are centered in the grade, packed and covered with a filled subgrade. The basic principles of construction are anchoring the foundation in permafrost, the maintenance of the permafrost level, prevention of frost heaves, and provision for adequate drainage."—SIPRE.

**Copy seen:** DLC.

**22569. HEMSTOCK, RUSSELL A.** Permafrost problems in oil development in northern Canada. (Canadian mining and metallurgical bulletin, May 1952. v. 45, no. 481, p. 280-83, illus., sketch map; Canadian Institute of Mining and Metallurgy. Transactions, 1952, v. 55, p. 190-93)

Contains a brief review of the distribution and ground characteristics of permafrost, the damage it effects upon constructions. Factors to be considered are noted and methods indicated which proved most valuable to the engineer in the building of roads, communications and pipelines, foundations and buildings.

**Copy seen:** DGS.

**HEMSTOCK, RUSSELL A.,** *see also* National Research Council of Canada. Subcommittee on Soil Mechanics. Bulletin. 1947. No. 24579.

**HENDEL, FRIEDRICH,** *see* Frey, R. Finlands Agromyzider. 1937. No. 21927.

**22570. HENDERSON, E. N.** The arctic armourer. (Roundel, Feb. 1952. v. 4, no 2, p. 1-5, illus.)

"Originally appeared as a report by the R. C. A. F. Winter Experimental Establishment, Edmonton. Based on six winters' experience under the severest possible conditions at Fort Churchill, Man., and Watson Lake. Y. T., its official title was 'Armament problems in loading and arming aircraft in cold weather.'"—Editor's note.

In conversational style, author comments on clothing, lubricants, methods of servicing various types of armament installations, loading ammunition, etc.

**Copy seen:** CaMAI.

**22571. HENKING, HERMANN.** Die Expedition nach der Bäreninsel im Jahre

1900. (Deutscher Seefischerei-Verein. Mittheilungen, Feb. 1901. Bd. 17, p. 41-86, 5 plates (1 double, 1 fold.) map) **Title tr.:** Expedition to Bjørnøya in the year 1900.

Report by the leader of the German Sea Fisheries Association party's visit, July 4-12, 1900, giving itinerary, description of the chartered fishing vessel *St. Johann*, the party's activities, condition of, and visitors to the buildings at Herwig Haven, use of coal taken from deposits on the island; the weather, land ice and snow, tides and currents; tabular data on ice conditions in the vicinities of Bjørnøya, West Spitsbergen, Franz Josef Land and Novaya Zemlya in 1900; summary of records on accessibility of Bjørnøya to vessels, 16th-19th centuries (ice conditions); description of the animals and plants of the island, and annotated inventory of buildings and establishments there.

**Copy seen:** DLC.

**22572. HENNIG, RICHARD, 1874-** Polarforschung im Mittelalter. (Polarforschung, 1948, pub. 1950. Bd. 2, Jahrg. 18, p. 15-17, i. e. p. 211-13) **Title tr.:** Polar exploration in the Middle Ages.

Notes on voyages during 9th to 13th centuries, into the waters from the White Sea westward to Davis Strait, with the conjecture that although there is no written record, it may be presumed that arctic exploration began two centuries earlier.

**Copy seen:** DGS.

**22573. HENRIKSEN, HANS J.** Laksefiske med posegarnstengsel i Tanaelva. (Studia Septentrionalia, 1945. v. 2, p. 116-29, illus.) **Title tr.:** Enclosure for netting salmon on the Tana River.

Contains a detailed account written in Lapp with Norwegian translation, on this fishing technique used by Lapps on this northern Finnish-Norwegian border river.

**Copy seen:** InU.

**22574. HENRIKSEN, KAI LUDVIG, 1888-1940.** The Canadian Arctic Expedition 1913-18. (Entomologiske meddelelser, 1924. Bd. 14, hefte 6, p. 235-39)

Contains data on entomological collections of the Canadian Arctic Expedition, 1913-18, made on the western and northern coast of Alaska and along the coast of Mackenzie District, and comparison of the entomological fauna of those regions with Greenland insect fauna.

**Copy seen:** DA; MH-Z.

**22575. HENRIKSEN, KAI LUDVIG, 1888-1940.** Oversigt over Dansk en-

tomologisk historie. Kjøbenhavn, Entomologisk forenings forlag, 1921-37.

578 p. illus., ports. (Entomologiske meddelelser, 1921. Bd. 15, hefte 1, p. 1-48, 1922, hefte 2, p. 49-96; 1924, hefte 3, p. 97-144; 1925, hefte 4, p. 145-92; 1926, hefte 5, p. 193-240; 1927, hefte 6, p. 241-88; 1936, hefte 7-8, p. 289-384; 1937, hefte 9-10, p. 385-480; hefte 11-12, p. 481-578) *Title tr.* A review of the history of entomology in Denmark.

*Contains* a history of the progress of entomology in Denmark from olden times until 1937, with biographical sketches of entomologists and collectors, data on their scientific activity, travels, collections and published works; bibliography (about 450 items), p. 546-62; index of the names, p. 563-76. Includes historical, biographical and bibliographical data on some explorers of arctic regions (especially Greenland). *Copy seen:* MH-Z.

**HENRIQUES, OLGA B.,** *see* Henriques, S. B., & others. Influence of cold on blood fibrinogen. 1949. No. 22576.

**22576. HENRIQUES, S. B., and others.** Influence of cold on blood fibrinogen concentration. (Society for Experimental Biology and Medicine. Proceedings, May 1949. v. 71, p. 82-84, fig., table) *Other authors:* O. B. Henriques and H. Selye.

*Contains* a report on experiments with rats exposed to a temperature of 2°-5° C. and fasted 24 hours before being bled. Exposure to cold caused a fall in plasma-fibrinogen concentration; the fall was maximal at the end of 24 hrs., was followed by a slight rise to a subnormal level, which persisted as long as 21 days after the beginning of exposure. Bibliography (7 items). *Copy seen:* DLC.

**22577. HENSCH, AUSTIN, and others.** Some responses to hot and cold test meals. (Journal of applied physiology, Oct. 1949. v. 2, p. 208-216, 4 fig.) *Other authors:* H. L. Taylor, and A. Keys.

*Contains* a report on the effects of hot and cold meals on some body functions which are regulated—at least partially—by the autonomic nervous system. Gastric motility, blood pressure, blood sugar concentration, pulse rate, skin temperature and electrocardiographic responses were measured both before and after internal thermal stimulation by a test meal. Bibliography (19 items).

*Copy seen:* DLC.

**22578. HENSEL, HERBERT.** Auslösung von Kältezittern durch Kohlen-säureatmung. (Pflügers Archiv für die gesamte Physiologie, 1949. Bd. 252, p. 107-110) *Title tr.:* Shivering caused by inhalation of CO<sub>2</sub>.

*Contains* an account of experiments which demonstrated that shivering due to cold exposure of men is much enhanced by breathing air containing CO<sub>2</sub> (3 percent). When the body is kept warm no effect is observed. Alternate inhalation of CO<sub>2</sub> and of pure air caused an alternating appearance and disappearance of shivering, with a lag of 15 seconds. Bibliographical footnotes.

*Copy seen:* DLC.

**22579. HENSEL, HERBERT.** Die intracutane Temperaturbewegung bei Einwirkung äusserer Temperaturreize. (Pflügers Archiv für die gesamte Physiologie, 1950. Bd. 252, p. 146-64, 13 fig.) *Title tr.:* Intracutaneous temperature fluctuation caused by external temperature stimuli.

*Contains* a theoretical and experimental study, made with two methods which permit intracutaneous measurement of temperature at an exact depth. A description of the apparatus and methods is given. The data, which represent heat conductivity of the living skin, are in very good agreement with known, theoretical values. Bibliography (over 30 items). *Copy seen:* DLC.

**22580. HENSEL, HERBERT.** Temperaturempfindung und intracutane Wärmebewegung. (Pflügers Archiv für die gesamte Physiologie, 1950. Bd. 252, p. 165-215) *Title tr.:* Temperature perception and intracutaneous heat movement.

*Contains* a report on experiments which enabled simultaneous application of thermic stimuli combined with observations on temperature perception and, intracutaneous temperature fluctuation at an exact depth of 0.06-2 mm. The skin of the arm of five subjects was investigated; thermic stimuli of 15° C. and 40° C. were used, the subjects being kept in a room with constant temperature and humidity. Problems of adaptation, after-sensation, effect of rate in temperature change on sensation, effect of the stimulating area, etc., are investigated and analyzed. Bibliography (about 80 items). *Copy seen:* DLC.

**22581. HENTSCHEL, ERNST, 1876- .** Die Planktonbevölkerung der Meere um Island. (Deutsche wissenschaftliche Kommission für Meeresforschung. Berichte, 1941. Neue Folge, Bd. 10, p. 117-94, 8 plates, diags.) *Title tr.:* Plankton population of the sea around Iceland.

A quantitative and qualitative study of plankton in August, with briefer section of the Feb.-Mar. diatom population, in waters which include a section across Denmark Strait and for a short distance into southwestern Greenland Sea. Bibliography (30 items). *Copy seen:* DL.

**22582. HENTSCHEL, ERNST, 1876- .** Über den Ursprung der Heringsnahrung im Norden von Island. (Deutsche wissenschaftliche Kommission für Meeresforschung. Berichte, 1937. Neue Folge, Bd. 8, p. 201-219, illus., tables, diags.) *Title tr.:* On the source of the food of herrings north of Iceland.

From a study of copepod (*Calanus*) and other plankton from net hauls and stomach contents of herring in the waters along the northern coast of Iceland, the author contributes toward solution of the open question of fluctuations of herring and source of the plankton in this region. Bibliography (15 items).

*Copy seen:* DLC.

**22583. HEQVIST, KARL JOHAN.** Bidrag till kännedom om fjärlsfaunan inom Muddus nationalpark. Entomologisk tidskrift, 1947. Årg. 68, häft. 3-4, p. 193-95, map) *Title tr.:* Contributions to knowledge of the lepidopterous fauna of Muddus National Park.

Contains very brief physical and geographic data on the Muddus National Park in Gällivare and Jokkmokk parishes, Swedish Lapland, and a list of 39 butterflies and moths, occurring there with data on habitat and local distribution.

*Copy seen:* DA; MH-Z.

**22584. HEQVIST, KARL, JOHAN.** Bidrag till kännedomen om hemipterernas utbredning. (Entomologisk tidskrift, 1945. Årg. 66, häft. 4, p. 211-12) *Title tr.:* Contributions to the knowledge of the distribution of Hemiptera.

Contains a list of bugs with new localities, including ten species new to the hemipterous fauna of Lycksele Lappmark.

*Copy seen:* DA; MH-Z.

**22585. HEQVIST, KARL JOHAN.** Bidrag till kännedom om insektfaunan inom Muddus national park. (En-

tomologisk tidskrift, 1949. Årg. 70, häft. 1-2, p. 94-96) *Title tr.:* Contributions to knowledge of the insect fauna of Muddus National Park.

Contains a systematic list of about 80 species of Coleoptera and 35 species of Hemiptera, Diptera, Trichoptera, Odonata and Hymenoptera, in this region about 66°30' N. 20° E.

*Copy seen:* MH-Z.

**HEQVIST, KARL JOHAN,** see also Butovitsch, V., & K. J. Heqvist. Till kännedom om skalbaggars utbredning. 1947. No. 21051.

**22586. HERBERZ, OSKAR.** Anthropologische Untersuchungen über den Unterkiefer der Lappen. Helsinki, 1931.

64 p., illus., tables. (Suomalainen tiedeakatemia, Annales Academiae scientiarum fennicae, A31:5) *Title tr.:* Anthropological studies on the mandible of the Lapps.

Contains (on the basis of measurements of 168 exhumed lower jaws) data on the jaw as a whole; measurements of its parts, angles and variation of form. Each group of measurements is compared with those of other races. Bibliography (about 70 items).

*Copy seen:* DLC.

**22587. HERDEMERTEN, KURT.** Jakunguaq: das Grönlandbuch der Hermann-Göring-Stiftung. Braunschweig, G. Westermann, 1939.

136 p., illus. (incl. maps), plates *Title tr.:* Jakunguaq [little Jacob] the Greenland book of the Hermann Göring Foundation.

Account of the Herdemerten Greenland Expedition which spent the summer of 1938 on the West Greenland coast 68°-71° N. lat., studying plants and birds particularly the arctic falcon. Includes general remarks on the area, the Wegener Expedition 1929-31, the Herdemerten party's three stations and (p. 81-131) report on the ornithological work; numerous decorative drawings and photographs.

*Copy seen:* DLC.

**HERLING, E. K.,** see GERLING, E. K.

**22588. HERMAN, LOUIS, and H. LEIN-BACH.** A photographic study of changes of the infrared emission of the polar aurora. [College, Alaska] 1951. 4 p. photos. (Alaska. University. Geophysical Institute. Experimental investigation of the upper atmosphere during periods of auroral activity. Con-

tract AF 19 (122)-431. Scientific report no. 3). Also pub. as: American Geophysical Union. Transactions, Oct. 1951. v. 32, p. 679-82, illus.)

Contains results of a semi-quantitative comparison of two sequences of pictures of the polar aurora made at College, Alaska, with the use of panchromatic film and green filter and infrared film and red filter.

"In changes of color in the rayed bands and draperies observed in auroral displays, the most striking change at high latitudes is the appearance of a red lower edge; this type B aurora is studied by pairs of pictures taken simultaneously of the aurora by two "Robot" cameras. Panchromatic film with a green filter and infrared film with a red filter are used. Measured relative intensity ratios of the infrared and green pictures and sequences of pictures are given and interpreted."—*Meteorological abstracts and bibliography*, May 1952. v. 3, p. 470.

**Copy seen:** DGS (A. G. U. Trans.); DWB.

**22589. HERMANN, FREDE.** North-western area. Environment. Hydrography. Section from the Faroes to East Greenland. (International Council for the Study of the Sea. *Annales biologiques*, 1948, pub. 1949. v. 5, p. 16, diagr.)

Note characterizing the variation in Irminger Current (warm Atlantic) waters in southern Denmark Strait, June 24-July 18, 1948; to accompany vertical temperature-salinity diagram.

**Copy seen:** DF; DSI-M.

**HERMANN-GÖRING-STIFTUNG.** see Herdemerten, K. Jakunguag. 1939. No. 22587.

**22590. HERMONT, JEAN.** Les géants liquides; la petite histoire des grands fleuves. Paris, Les éditions internationales [1948]

132 p., 8 plates, fold. map. (Encyclopédie pittoresque, 2) **Title tr.:** Flowing giants; brief history of the great rivers.

Popular presentation of the history, hydrology and economics of the 25 largest rivers of the earth, including (p. 51-53) the Mackenzie (p. 54-55), the Yukon, and (p. 77-91) the Ob'-Yenisey-Lena system.

**Copy seen:** DLC.

**HÉROUX, O.,** see Thérien, M., & others. Effects acide ascorbique. 1949. No. 26661.

**22591. HERRE, ALBERT W. C. T.** Lichens collected by Abbé Ernest Lepage in Alaska during the summer of 1948. (Bryologist, Mar. 1950. v. 53, no. 1, p. 58-59)

The list contains 21 species, with substrates or localities where they were found. Though small it represents an interesting addition to the knowledge of lichen distribution.

**Copy seen:** DA.

**22592. HERRE, ALBERT W. C. T.** Two interesting lichen records from Alaska. (Bryologist, June 1950. v. 53, no. 2, p. 124)

*Parmelia lophyrea* Acharius and *Ramalina ceruchis* (Ach.) De Notaris are described from a collection from south-eastern Alaska.

**Copy seen:** DA.

**22593. HERRE, WOLF.** Die Haustierwerdung des Rens; Bedingungen und Merkmale der Domestikation. (Umschau, Juni 1943. Jahrg. 47, p. 171-73, illus.) **Title tr.:** Domestic cultivation of reindeer; conditions and characteristics of its domestication.

General discussion of domestication of wild animals as a biological problem, with reference to the changes involved, and to the relatively unchanged state of the reindeer after three to four hundred generations of domestication. Remarks on its peculiar adaptability to domestication.

**Copy seen:** DA.

**22594. HERRINGTON, H. B.** Sphaeriidae of Athabaska and Great Slave Lakes, northwestern Canada. (Canadian field naturalist, (Jan.-Feb. 1950. v. 64, p. 25-32)

Based on collections of the Northwest Canadian Fisheries surveys, 1944-46. Includes list of 16 species of clams dredged in Great Slave Lake, and discussion of their distribution and breeding season.

**Copy seen:** DSI-M.

**22595. HERRINGTON, LOVIC PIERCE, 1907-** The range of physiological response to climatic heat and cold. (In: Newburgh, L. H. ed. Physiology of heat regulation and the science of clothing. 1949. p. 262-76, tables)

Contains information based to a large extent on experiment made on humans in Dachau. Sections deal with extreme limits of body temperature; the rate of

heart beat and output under hot and cold stress; range of thermal resistance in peripheral tissue; and range of sweat secretion. Bibliography (48 items).

*Copy seen:* DLC.

**22596. HERRINGTON, LOVIC PIERCE, 1907- , and A. P. GAGGE.** Temperature regulation. (Annual review of physiology, 1943. v. 5, p. 295-320)

The first of a series of annual review of current literature on the problem of adjustments to extreme temperatures, with emphasis on man. Includes chapters on: hypothermia; heat stress; control and peripheral factors in regulation; physical regulation; chemical regulation and slow adjustments to temperature. Bibliography (105 items).

*Copy seen:* DSG.

**HERRINGTON, LOVIC PIERCE, 1907- , see also Gagge, A. P. & others.** Influence clothing on reactions human body to varying temperatures. 1938. No. 22003.

**HERRINGTON, LOVIC PIERCE, 1907- , see also Gagge, A. P., & L. P. Herrington.** Physiological effects heat & cold. 1947. No. 22004.

**HERRINGTON, LOVIC PIERCE, 1907- , see also National Research Council.** Subcommittee on Clothing. Clothing test methods. 1945. No. 24577.

**HERRINGTON, LOVIC PIERCE, 1907- , see also Winslow, C.-E. A., & others.** Heat exchange & regulation in radiant environments . . . 1940. No. 27450.

**HERRINGTON, LOVIC PIERCE, 1907- , see also Winslow, C.-E. A., & others.** Influence air movement upon heat losses. 1939. No. 27451.

**HERRINGTON, LOVIC PIERCE, 1907- , see also Winslow, C.-E. A., & others.** Influence temperature & humidity upon oral mucosa. 1942. No. 27452.

**HERRINGTON, LOVIC PIERCE, 1907- , see also Winslow, C.-E. A., & others.** Physiological reactions human body varying temperatures. 1937. No. 27455.

**HERRINGTON, LOVIC PIERCE, 1907- , see also Winslow, C. E. A., & L. P. Herrington.** Temperature & human life. 1949. No. 27456.

**22597. HERRMANN, ERNST, 1890- .** Das Nordpolarmeer, das Mittelmeer von Morgen. Berlin, Safari-Verlag, 1949.

343, [1] p., illus., 30 plates, maps. maps on end papers. *Title tr.:* The north polar sea, the mediterranean of tomorrow.

Characterizes the climatic peculiarities of the arctic region, its sunlight, temperature distribution, snowlines, frozen ground, sea ice, icebergs, etc.; geologic phenomena such as frost weathering, and glaciers; magnetic variation, wandering of the magnetic pole, and auroras; the fauna, flora and fisheries; human and economic geography of Greenland, Canada, Alaska and the U.S.S.R. Historical sketch of exploration of the Northwest and Northeast Passages, attempts to reach the North Pole by surface travel; aerial exploration and its role in the Arctic. Bibliography (101 items).

*Copy seen:* DLC.

**HERRON, EDWARD ALBERT.** *see* Amerikanskii Sever; sbornik statel. 1950. No. 20180.

**22598. HERTZMAN, ALRICK B., and L. W. ROTH.** The reactions of the digital artery and minute pad arteries to local cold. (American journal of physiology, June 1942. v. 136, p. 680-91, 7 fig.)

Contains a study on the selective effect of local cold on the terminal pad vessels and the digital artery, and on the effect of these reactions on the propagation of the pulse in the fingers' arterial system. Bibliography (11 items).

*Copy seen:* DLC.

**22599. HERTZMAN, ALRICK B., and L. W. ROTH.** The vasomotor components in the vascular reactions in the finger to cold. (American journal of physiology, June 1942. v. 136, p. 669-79, 5 fig.)

Contains a report of a study by means of a photo-electric plethysmograph. Observations indicate that the initial constriction upon application of cold, is due to vasoconstrictor reflexes, on which is superimposed somewhat later the direct constrictor action of cold; the reactive dilatation which follows 3-8 minutes after the application of cold occurs independently of the vasomotor system. Bibliography (5 items). *Copy seen:* DLC.

**HERTZMAN, ALRICK B., see also Jochim, K. E., & A. B. Hertzman.** Effects of cold on blood vessels skin of forearm. 1944. No. 22971.

**HERTZMAN, ALRICK B.**, *see also* Smith, D. E., & others. Some cutaneous responses to "reflex cooling." 1948. No. 26286.

**22600. HERWIG, WALTHER, 1838-1912.** Die Expedition des Deutschen Seefischerei-Vereins in das nördliche Eismeer vom Jahre 1899. (Deutscher Seefischerei-Verein. Mittheilungen, Jan. 1900. Bd. 16, p. 1-37, 8 plates (3 fold) 3 maps (2 fold.)) **Title tr.:** The expedition of the German Sea Fisheries Association in the Arctic Ocean, 1899.

Using three vessels for fishing, whaling and transport, the Association established a station on the north coast of Bear Island (Bjørnøya) and carried on exploratory fishing, whaling and (incidentally) sealing; reconnoitered the island, made biological and geological collections and investigated the coal deposits of the north end of the island. This report mentions health conditions, food, weather, adverse ice conditions which retarded the voyage by six weeks; the selection of a fat diet by the men and by sea fish, birds, mammals and even crustaceans; describes Herwigs Haven where the station was built, as the most promising harbor of the island.

**Copy seen:** DI.

**22601. \*HERZ, OTTO.** Lepidopteren-Ausbeute der Lena-Expedition von B. Poppius im Jahre 1901. Helsingfors, 1903. 22 p. illus. plate. (Finska vetenskaps-societeten. Oversigt af förhandlingar, 1901-1903. Bd. 45, no. 15) **Title tr.:** Lepidoptera collected by the Lena Expedition of B. Poppius in 1901.

Contains a list of 135 forms of butterflies, some of them new. Locations and dates of finds, occasionally outstanding morphological characteristics and color, are given. The material was collected in the Lena (and tributaries) basin including the lower sections during the Cajander and Poppius natural history trip in the Lena valley in 1901.

**Copy seen:** DLC.

**22602. HESS, HANS.** Über die Elastizitäts-Konstanten des Eises. (Zeitschrift für Gletscherkunde, Apr. 1940. Bd. 27, p. 1-19, incl. tables, graphs) **Title tr.:** On the elastic constants of ice.

"Data from earlier experiments were used to establish the dependency of

\*See also under Russian form of author's name (Герц) No. 22085-22087.

Young's modulus on temperature and pressure within the range of 0-9° C. Functional relationships involving Poisson's ration, the factor of incompressibility, the modulus of torsion, and Young's modulus were obtained. In measuring glacial depths with seismic waves, it was shown that in order to use appropriate velocity formulas, which are dependent on the above mentioned factors, a correction factor (between 1.5 and 3) must be applied to Young's modulus. Application of these formulas in connection with the seismic method yielded smaller depths for Greenland ice than had previously been found."—SIPRE. For English translation published under title as above, see item following.

**Copy seen:** DLC.

**22603. HESS, HANS.** Über die Elastizitäts-Konstanten des Eises. On the elastic constants of ice. Translated by the Stefansson Library, New York, 1950, under contract with St. Paul District, Corps of Engineers, for Office of the Chief of Engineers, Military Operations, Engineer Research and Development Division; Snow, Ice and Permafrost Research Establishment, Wilmette, Ill. 12 p. (SIPRE translation, no. 4)

Contains English translation of item above.

**Copy seen:** CaMAL.

**22604. HESSLE, CHRISTIAN.** Zur Kenntnis der terebellomorphen Polychaeten. (Zoologiska bidrag från Uppsala, 1917. Bd. 5, p. 39-258, illus., plates 1-5) **Title tr.:** A contribution to the knowledge of tubicolous Polychaeta.

Contains in the general part (p. 39-71) historical notes, survey of morphology and anatomy of marine polychaetous worms of the families Amphictenidae, Ampharetidae, Trichobranchidae and Terebellidae with a discussion of the families. In the special part (p. 72-236) are tables for the determination of the genera and species, description of all known species, with synonyms, critical notes and data on geographic distribution. A bibliography (274 items) and an index of Latin names are added. The distribution covers all arctic and antartetic waters.

**Copy seen:** MH-Z.

**22605. HEUSSER, CALVIN J.** Pollen profiles from southeastern Alaska. (Ecological monographs, Oct. 1952. v. 22, no. 4, p. 331-52, diagrs., maps)

Contains account of a study made in 1950 and 1951 on peat sections from

muskegs near Ketchikan, Wrangell, Petersburg, Sitka and Juneau. It was aimed toward elucidating post-glacial forest successions and climate. The account proper is preceded by sections on present physical geography, climate, glaciation and vegetation. The time represented by the pollen profiles (8,000 years ago till the present) is divided into five periods having distinctive forest types and successions, indicative of climatic conditions of each period and their changes. Evidence of vulcanism, change in sea level and glacier fluctuations was also found in the material and is presented. Bibliography (about 75 items). **Copy seen:** DLC.

**HEUSSER, CALVIN J.**, see also Field, W. O., & C. J. Heusser. *Glaciers historians climate*. 1952. No. 21783.

**22606. HEWES, GORDON W.** The fisheries of northwestern North America. (Economic geography, Jan. 1952. v. 28, p. 66-73, sketch map)

Contains a general discussion of aboriginal cultural unity and bio-geographic features of the Pacific coast region from Alaska to California.

**Copy seen:** DGS.

**22607. HEWES, HARRY.** Public works program in Alaska. (American city, Mar. 1950. v. 65, no. 3, p. 96-97, illus.)

Notes on projects to be started about June 1950, cites of their location, the financing and specifications of the program of "community facilities to be expanded under federal grants" from the 81st Congress.

**Copy seen:** DLC.

**22608. HEWETSON, H. W.** What are the possibilities of settlement in Canada's north land? (Public affairs, Dec. 1946. v. 10, p. 20-25)

General discussion of agriculture, climate, trapping, minerals, oil and pitchblende in the Mackenzie valley, Yukon Territory and the northern portions of Ontario, Quebec and the four western provinces of Canada.

**Copy seen:** DLC.

**22609. HEWITT, OLIVER HAROLD, 1916-** Recent studies on blue and lesser snow goose populations in James Bay. (North American Wildlife Conference. 15th, Mar. 6-9, 1950, San Francisco. Transactions, 1950, p. 304-309, map, diagr.)

The author conducted the continuing annual open season surveys 1946-47, for

the Canadian government. He reports here on *Chen caerulescens*, its population behavior, flock size, composition, and movements, also on hunting regulations especially against low aircraft flights which disturb and drive the geese from feeding grounds, the adult-juvenile ratios, and present status of the game bird, which is predominant in the lower James Bay shore area between Fort Albany and Rupert House, Ontario - Quebec.

**Copy seen:** DLC.

**22610. HEYDEMANN, F.** Beitrag zur Kenntnis einiger nördlichen und östsisibischer Geometriden. (Deutsche entomologische Zeitschrift Iris, 1936. Bd. 50, Heft 1, p. 23-39, illus., plates 1-2)

**Title tr.:** A contribution to the knowledge of some northern and East Siberian Geometridae.

Contains a critical study of some northern moths of the fam. Geometridae, with descriptions of seven forms of which one species and two subspecies are described as new; includes *Xanthorhoe annotinata* from the Kola Peninsula and *Muonio* in Swedish Lapland, and *X. sajanaria* occurring in northern Lapland and in Kamchatka Peninsula. **Copy seen:** MH-Z.

**22611. HEYDEN, LUCAS, von, 1838-1915.** Bemerkungen über die von Dr. Staudinger und Dr. Wocke in Finnmarken gefundenen Coleopteren. (Stettiner entomologische Zeitung, 1866. Bd. 27, no. 7-9, p. 250-59) **Title tr.:** Remarks on Coleoptera collected by Dr. Staudinger and Dr. Wocke in Finnmark.

Contains critical notes on 62 beetles described in M. F. Wocke and O. Staudinger, *Reise nach Finnmarken*, 1861-62, q. v. and checked on their collection; also a list of the species, description of which could not be verified.

**Copy seen:** MH-Z.

**HEYDEN, LUCAS FRIEDRICH JULIUS DOMINICUS von, see HEYDEN, LUCAS von, 1838-1915.**

**22612. HEYE, ARTUR, 1885-** Im letzten Westen; mit Trappern, Fischern, Goldsuchern in Alaska. Zürich und Leipzig, A. Müller [1939]. 334 p., 1 l., 40 plates (incl. ports.) on 20 leaves; map on lining-papers. **Title tr.:** In the last West; with trappers, fishermen and gold-diggers in Alaska.

Author spent two years of the late 1930's with his wife in various parts of Alaska, fishing, trapping and searching

for gold with local people. He gives here an account of his experiences with many excellent photographs of landscape, wildlife, the people and their activities.

**Copy seen:** DLC.

**HICKCOX, C. A.,** *see* Barnes, F. F., & others. Coal investigations in south-central Alaska 1944-46. 1961. No. 20470.

**22613. HICKS, H. BRODIE.** Exploration, development, and production practices at United Keno Hill Mines, Limited. (Canadian mining and metallurgical bulletin, Oct. 1952. v. 45, no. 486, p. 587-97, illus., 3 sketch maps; Canadian Institute of Mining and Metallurgy. Transactions, 1952. v. 55, p. 347-57)

*Contains* an account of prospecting, mining and milling methods, with discussion of costs, transportation, power and water supply and labor conditions at the lead-zinc-silver mine at Keno Hill in Yukon Territory. Geologic structure and the ore deposits are noted. *Illus.* include flow-sheet of concentrator and cyanide plant.

**Copy seen:** DGS.

**HICKSON, J. W. A.,** *see* Alpine Club of Canada. Mount Logan Expedition. 1925. No. 20155.

**22614. HIEHLE, KURT.** Neuer Lebensraum für 100 Millionen Menschen. (Umschau, Feb. 1950. Bd. 50, (nr. 4), p. 105-108, map). **Title tr.:** New living space for 100 million people.

"The Davidov plan for directing the flow of the Siberian rivers Ob' and Yenisey into the Caspian sea, thereby modifying the climate of the now arid Aralo-Caspian plain, is discussed. Rough estimate of labor and cost involved is given and probable effect of the change is anticipated. The plan provides for the formation of a lake covering a territory of about 250,000 sq. km. and for construction of an artificial river bed over a distance of 930 km. The project is represented on a map."—*Meteorological abstracts and bibliography*, Aug. 1952. v. 3, no. 8, p. 822.

**Copy seen:** DA; DLC.

**22615. HIEKISCH, KARL.** Die Tungusen; eine ethnologische Monographie. St. Petersburg, Buchdruckerei der Kaiserlichen Akademie der Wissenschaften, 1879. ii, 120 p. Ph. D. thesis at Univ. of Dorpat. **Title tr.:** The Tungus; an ethnological monograph.

*Contains* description of the Tungus people and its culture, based on older literature and works of A. Schiefner, A. Castrén, and A. Middendorff: the conquest of Siberia by Russians; the dissemination of Tungus (between 40° and 73° N. lat.) in the recent times; names of tribes and population statistics (about 68,000); the racial type, its physical and psychological character; clothing, implements, and weapons; mode of living, food and stimulants; family and social life; mortuary customs and religious beliefs; shamanism; the language.

**Copy seen:** DLC.

**22616. HIETANEN, ANNA MARTTA, 1909-** . On the petrology of Finnish quartzites. Helsinki, 1938. 118 p., 13 plates, diagrs., maps. (Finland. Geologiska kommission. Bulletin, no. 122)

*Includes* data on the petrology of quartzite from western Lapland (Olostunturi, Ounastunturi and Juppyra), p. 76-86.

**Copy seen:** DLC.

**22617. HIITONEN, ILMARI.** Über die gemeinsamen Züge der Floren von Nordamerika und Fennoskandien, nebst einem Blick auf die *Salix*-Flora des östlichen Nordamerikas. (Societas pro fauna et flora fennica. Memoranda, 1948-49, pub. 1950. No. 25, p. 72-86) **Title tr.:** On common features of the floras of North America and Fennoscandia, with a glance at *Salix* flora of eastern North America.

*Contains* a comparative study of the flora of flowering plants and vascular cryptogams of North America and Fennoscandia with a list of about 120 species either common to both regions or having a vicarious related species. In the second part of the work, a similar study of willow flora of both regions is made; bibliography (23 items). Includes some species, native to arctic regions of Eurasia and North America.

**Copy seen:** DLC; MH-A.

**22618. HILDEBRAND, HENRY A.** Notes on the birds of the Ungava Bay district. (Canadian field naturalist, Mar.-Apr. 1950. v. 64, p. 55-67)

Annotated list of 48 species and 6 additional species identified by sight only, collected and observed during three trips in the months of Mar.-Apr. and June-Oct., 1947-48, in the Fort Chimo region, south of that post and east to Port Burwell.

**Copy seen:** DGS; DSI-M.

**HILDEBRAND, HENRY A.,** *see also* Ellison, J. G., & others. Explor. fishing

exped. N. Bering Sea 1949. 1950. No. 21655.

**HILDEBRAND, HENRY A.**, *see also* Powell, D. E., & H. A. Hildebrand. Albacore tuna explor. Alaska 1949. 1950. No. 25269.

**22619. HILDÉN, KAARLO, 1893-** . Adolf Erik Nordenskiöld 1832-18/xi-1932. (Terra, 1932. 44:3, p. 142-46, illus., port) *Title tr.*: Adolf Erik Nordenskiöld 1832-Nov. 18, 1932.

Tribute to life and work of Nordenskiöld, his birth and youth in Finland, move to Sweden in 1858; his geological works and geographic explorations under the Swedish flag, expeditions to Spitsbergen, Greenland, Novaya Zemlya, the Yenisey; his navigation of the Northeast Passage in the *Vega*, 1878-80, etc.; his death in 1901; bequest of his map collection to University of Helsinki. Summary in German.

*Copy seen:* DLC.

**22620. HILDÉN, KAARLO, 1893-** . Notes on the physical anthropology of the Ostyak-Samoyeds; based upon data collected by Kai Donner. (Suomalais-ugrilainen seura. Aikakauskirja, 1939. v. 50, no. 4, p. 1-25, 6 illus., map)

*Contains* evaluation of the material collected by K. Donner in 1911-14, referring mostly to the Ostyak-Samoyeds living near the town of Ust-Tym (59°29' N. 80°10' E.) and in the region of the middle Ob' River and its tributaries. These people are the southernmost representatives of the Samoyeds; they inhabit the tundra between the rivers Ob' and Yenisey, and number close on 4,500 according to the census of 1926-27. Anthropological observations and measurements were made of 37 individuals, including three women. Author concludes that Ostyak-Samoyeds are not Mongoloid and can be considered as belonging to the "Paleosiberian race." They are characterized by eyes and hair of a dark color, very low stature, a comparatively large head (index varying between high mesocephaly and low brachycephaly), and comparatively small facial measurements. In a few cases, fair hair and light-coloured eyes occur. Points of great similarity can be established between this group and their kinsmen further north.

*Copy seen:* DLC; InU.

**22621. HILDÉN, KAARLO, 1893-** . Some notes on the anthropology of the

Kamasses made by Kai Donner. (Suomalais-ugrilainen seura. Aikakauskirja, 1939. v. 50, no. 5, p. 1-9, 17 photos)

*Contains* racial investigation of a tribe dying out which linguistically belongs to the southernmost group of Samoyeds and dwells on the northern slopes of the Sayan Mts. It comprised about 150 individuals when Castrén visited it in 1847, reduced to 90 by 1875, probably due to high child mortality. Kai Donner visited the last Kamasses in the village of Abalakova in 1914, and made some anthropological observations, measurements and photos of about ten individuals. Hildén concludes that the Kamass type cannot be called Mongoloid on the whole (although they are the only Samoyeds among whom Mongolian features can be observed) as they retained many of the somatic characteristics found among Samoyeds living further north.

*Copy seen:* DLC; InU.

**HILL, J. M.**, *see* Muirhead, E. E., & others. Experimental freezing shock changes body fluids & tissues. 1942. No. 24534.

**HILL, ROBERT M.**, *see* Irwin, E., & others. Ascorbic acid content adrenal glands rats after cold. 1950. No. 22840.

**22622. HILTON, R. J.** Mackenzie valley. (Country guide, Dec. 1951. v. 70, no. 12, p. 11, 28, illus.)

*Contains* an account of a trip to the valley (in September) with two other agricultural experts, noting their itinerary, farms in the area, Fort Simpson agricultural experiment station and some of its achievements; and giving a general outline of the area and its possibilities.

*Copy seen:* DA.

**22623. HIMMELHEBER, HANS, 1908-** . Eskimokünstler. Teilergebnis einer ethnographischen Expedition in Alaska von Juni 1936 bis April 1937. Stuttgart, Strecker und Schröder, 1938. viii, 111 p., 20 illus. on 10 leaves, 8 plates, map. *Title tr.*: Eskimo artist. Partial results of the Ethnographic Expedition in Alaska, June 1936-April 1937.

Psychological and ethnological study of contemporary Eskimo art and artists, based mainly on the author's observations of Eskimo artists (listed on p. 8) at work during his sojourn in the Kuskokwim River valley and on Nunivak Island, and during his trips to Point Barrow and to Diomed, King and St. Lawrence Islands. Following introductory remarks on eco-

conomic conditions, seasonal occupations, homes, working conditions and religious and social customs, the author discusses function and characteristics of modern Eskimo painting, p. 19-32, drawing, p. 33-36, plastic art (especially mask-making), p. 36-56; Eskimo artists: their talents, social position, personalities; artistic methods and motivation, the subjects, technique, style and traditions of their art, p. 57-111; comparative remarks on old Eskimo art (especially ivory carving) and on modern Negro art of West Africa, with comment that the Negro artist is chiefly concerned with the aesthetic form, and the Eskimo artist with the content or subject matter of his work (p. 11-12). Includes bibliography (25 items); sketch map (p. viii) showing the author's itinerary in Alaska, and (at end) sketches of motifs and photographic illustrations of Eskimo drawings and of artists at work. Reviewed by Margaret Lantis in *American anthropologist*, 1942. v. 44, p. 123-24.

**Copy seen:** CUY.

**22624. HIMMELHEBER, HANS, 1908-** . Der gefrorene Pfad. Volksdichtung der Eskimo. Eisenach, Erich Röth, 1951. 137 p., illus. **Title tr.:** The frozen path. Folktales of the Eskimo.

Collection of myths and tales made by the author with the aid of a native interpreter on Nunivak Island and in the Kuskokwim River valley. The material is grouped: myths, legends and lore of origin, animal stories, sagas and tales, ancestor stories; and to the texts are occasionally added the interpreter's explanation or comment in footnotes. Preceding the texts is an extensive anthropological introduction by the author, outlining the distribution of Eskimo population and language, differences between southwest Alaskan and other Eskimo dialects; the material and social culture of Nunivak and Kuskokwim Eskimos, their economic and family life, lack of clear-cut tribal organization. Their ways of story telling are described and its relation to the dance, song, visual arts and religion discussed. Eskimo prose tales are characterized, and their descriptive and idyllic elements, their age and similarities to tales of other folk indicated.

**Copy seen:** CaMAI.

**22625. HINE, JAMES STEWART, 1866-** . Horseflies collected by Dr. J. M. Aldrich in Alaska in 1921. (Cana-

dian entomologist, June 1923. v. 55, p. 143-46)

Annotated list of eleven (including with descriptions, two new) species of Tabanidae, largely from central and southern Alaska. **Copy seen:** DLC.

**22626. HINES, EDGAR A.** The significance of vascular hyperreaction as measured by the cold-pressor test. (*American heart journal*, Apr. 1940, v. 19, p. 408-416, 2 fig.)

Contains a study on blood pressure and vascular reaction in persons submitted to a standard cold stimulus: immersion of one hand up to the wrist in water of  $4^{\circ} \pm 1^{\circ}$  C. The cold-pressor test is concluded to be an index of vascular reactivity; vascular hyperactivity, as measured by this test, is an important etiologic factor in essential hypertension, but also occurs in persons who do not have hypertension. The prospects of hyper- and hypo-reactors developing hypertension is also discussed. Bibliography (17 items). **Copy seen:** DLC.

**22627. HINES, JOHN CHESTER-FIELD, 1877-** . Wolf dogs of the North. New York, Greenberg, 1948. 241 p., illus., plate. Reprinted: New York, Pocket Book, Jrs., 1951 (211 p.)

Contains tales of Alaskan life and adventure in which dogs were major participants. The cleverness, devotion and heroism of the malamutes is stressed, their frequent role in saving human life, etc.

**Copy seen:** DLC.

**HINSCH, EINAR, see Pedersen, P. O.** Numerical variations Greenland Eskimo dentition. 1939. No. 25018.

**22628. HISINGER, EDUARD VICTOR EUGÈNE, 1832-1904.** Bidrag till kännedom om Finlands Libellulider. (Societas pro fauna et flora fennica. Notiser ur förhållningar, 1861. t. 6, p. 109-121) **Title tr.:** A contribution to the knowledge of Libellulidae of Finland.

Contains a systematic list 35 species of dragonflies (Libellulidae) of Finland, including *Libellula dubia* and *L. rubicunda* from Finnish Lapland and *Aeschna juncea*, native to Kuusamo region and Lapland; one species is described as new to the science.

**Copy seen:** DLC; MH-Z.

**22629. HISINGER, EDUARD VICTOR EUGÈNE, 1832-1904.** Öfversigt af Fin-

lands hittills kända Orthopterer jemte korta beskrifningar. (Bidrag till Finlands naturkännedom, etnografi och statistik 1861. Häft. 6, p. 1-35, plate 1) **Title tr.:** A survey of hitherto known Orthoptera of Finland with brief descriptions.

**Contains** a synopsis of the families and genera of the order Orthoptera and a systematic list of 34 species known from Finland with descriptions, critical notes and data on distribution. Includes at least four species, native to Finnish Lapland and Kuusamo region.

**Copy seen:** DLC; MH.

**22630. HITCHCOCK, DOROTHY JEAN, 1919-** . Parasitological study on the Eskimos in the Bethel area of Alaska. (Journal of parasitology, June 1950. v. 36, p. 232-34)

Report on a study (made in the summer of 1949) of 192 Eskimos from the lower Kuskokwim River region; percentage infected with intestinal parasites and trichina is shown, with "no apparent geographic localization of any of the parasitic infections."

**Copy seen:** DSI-M.

**22631. HITCHCOCK, DOROTHY JEAN, 1919-** . Parasitological study on the Eskimos in the Kotzebue area of Alaska. (Journal of parasitology, June 1951. v. 37, p. 309-311)

Results of a study made in 1950 of 376 individuals in the region between Point Hope - St. Michael and Little Diomed Island-Shungnak, showing percentage infection with pinworm, hydatid, *Diphyllobothrium* and trichina. *Endamoeba histolytica* was not revealed in any of the fecal samples.

**Copy seen:** DSI-M.

**22632. HJORT, JOHAN, 1869-1948.** Fiskeri og hvalfangst i det nordlige Norge. (Norway. Norges fiskeridirektøret. Årsberetning vedkommende Norges fiskerier, 1902, Hefte 1, p. i-viii, 1-251, front., illus., incl. chart diagrs., plate, fold. map) **Title tr.:** Fisheries and whaling in northern Norway.

Based on the investigations of the *Michael Sars*, 1900-1901. Describes (p. 1-38) the bottom topography and fauna, the general hydrographic conditions, plankton, and bird life of the seas north of Norway; the biology and migration of cod, herring, capelin, Greenland shark, and Greenland seal (p. 39-74); the fisheries of various seasons, and

regions (p. 75-112); various kinds of whales, history of world whaling, and (in some detail), whaling of northern Norwegian waters, 1864-1901 (p. 113-95); the struggle between fisheries and whaling interests (p. 196-242); extracts from the journal of a finback whaler, 1896 and 1898; and tables of whale catches 1892-1901 in Finnmark (p. 243-51). **Copy seen:** DI.

**HJORTH, H., see** Spinnangr, F., & H. Hjorth. On thunderstorm forecasting. 1942. No. 26385.

**22633. HOBBS, WILLIAM HERBERT, 1864-** . Characteristics of existing glaciers. New York, MacMillan Co., 1911. xxiv p. 1 l., 301 p. illus., 34 plates (incl. front., maps)

**Contents** include: chap. 8, Photography of the Continental Glacier of Greenland; 9, Nourishment of Greenland Inland ice; 10, Depletion of Greenland Inland ice from melting; 11, Discharge of bergs from the ice front. **Copy seen:** DLC.

**22634. HOBBS, WILLIAM HERBERT, 1864-** . An explorer-scientist's pilgrimage, the autobiography of William Herbert Hobbs. Ann Arbor, Mich., J. W. Edwards, Inc., 1952. 5 p. l., 222 p. 16 plates, incl. ports. and sketch maps.

In 32 chapters author chronicles his early life, studies, his academic work (professor of geology, Univ. of Michigan, 1906-1934), professional activities and travels; discusses the four expeditions to the Greenland icecap which he led or directed during 1926-30, to explore the glacial anticyclone in the upper air and to study how a continental glacier during liquidation modifies land surrounding it. He vindicates the Zeno map of Greenland; notes his investigation of island arcs of the Pacific, etc.; and lists geographic features in Arctic and Antarctic named in his honor. Appended is a chronological record of Hobbs' publications (about 450). **Copy seen:** CaMAI; DGS.

**22635. HOBBS, WILLIAM HERBERT, 1864-** . The Greenland flying route to Europe. (American Meteorological Society. Bulletin, Feb. 1929. v. 10, p. 34-36)

**Contains** abstract of paper presented at a meeting of the Society in New York, Dec. 27, 1928. Hobbs propounds, particularly from viewpoint of the anticyclone theory, a route across the Atlantic via Greenland. If planes flew at different heights in the two directions, according

to this theory, they should have tail winds in both directions across ice cap.

**Copy seen:** DLC.

**22636. HOBBS, WILLIAM HERBERT, 1864-** . The Greenland glacial anticyclone. (Journal of meteorology, 1945. v. 2, no. 3, p. 143-53)

*Contains detailed description of the theory.*

**Copy seen:** DWB.

**22637. HOBBS, WILLIAM HERBERT, 1864-** . Some curious early accounts of the Greenland foehn. (American Meteorological Society. Bulletin, Apr. 1928. v. 9, p. 79-81)

*Contains excerpts from works of Kane, McClintock, Hayes and Rink.*

**Copy seen:** DLC.

**22638. HOCK, RAYMOND J.** The metabolic rates and body temperatures of bats. (Biological bulletin, Dec. 1951. v. 101, no. 3, p. 289-99, diags., tables)

*Contains a study on the effect of environmental temperatures of near 0° C. to over 40° C. on metabolic rates and temperatures of the little brown bat, and a comparison with similar data on other bats. Body temperature was approximate to that of the ambient air, so that metabolic rate was measured along this range; a close correspondence between body temperature and ambient temperature was also found in other bats. When exposed to near-freezing temperatures the animals increased metabolism over that found at 2° C. The daily reduction in body temperature (which is apparently due to lack of a thermoregulatory mechanism) was not found to be fundamentally different from that during hibernation. This report is a portion of a Ph. D. thesis to Cornell Univ.*

**Copy seen:** DLC.

**HOCK, RAYMOND J.,** *see also* Scholander, P. F., & others. Adaptation to cold mammals & birds. 1950. No. 25976.

**HOCK, RAYMOND J.,** *see also* Scholander, P. F., & others. Body insulation mammals & birds. 1950. No. 25977.

**HOCK, RAYMOND J.,** *see also* Scholander, P. F., & others. Heat regulation mammals & birds. 1950. No. 25978.

**22639. HOCKING, B.** Further tests of insecticides against black flies (Diptera: Simuliidae) and a control procedure. (Scientific agriculture, Dec. 1950, v. 30, no. 12, p. 489-508, illus., tables, diags.)

*Contains a report on investigations conducted in 1948 and 1949 at Churchill,*

Man., and Whitehorse, Yukon Territory, with synthetic organic insecticides. Special attention was given to obtaining mortality of eggs and pupae and a practicable procedure for routine control measures. Effect of the insecticides on other fauna was also studied. An appendix contains a description of a dispenser and instructions for its use. Bibliography (11 items).

**Copy seen:** DA.

**22640. HOCKING, B., and others.** Observations on the bionomics of some northern mosquito species (Culicidae: Diptera). (Canadian journal of research, Apr. 1950. v. 28, sect. D, p. 58-80, 2 plates, sketch map, diags.) *Other authors:* W. R. Richards and C. R. Twinn.

*Based on studies in 1947-48, of biting flies and their control at Churchill, Man., a joint project of the Canadian Division of Entomology on behalf of the Canadian Defence Research Board, and the U. S. Bureau of Entomology and Plant Quarantine, on behalf of the U. S. Army Committee on Insect and Rodent Control.*

*Contains evidence that Aedes communis DeG., one of 16 species found at Churchill, may be two species; results of observations on larval habits and habitats, seasonal development, species associations, temperature relationships, and natural enemies; studies of seasonal changes in numbers, species composition and activity of adult population; estimates of the influence of meteorological factors on activity; description of mating habits, and discussion of adult feeding habits, both on nectar and on blood. The bibliography (17 items) includes six other publications arising from the same joint investigations. Appendix presents sight records of 35 species of birds, and seven species of mammals during fly season at Churchill.*

**Copy seen:** DGS; DSI-M.

**HODGSON, H. J.,** *see* Litzenberger, S. C., & others. Recommended varieties of farm crops. 1950. No. 23955.

**HODGSON, H. J.,** *see also* Sweetman, W. J., & others. Better forage for Alaska. 1950. No. 26570.

**22641. HODGSON, J. H., and W. G. MILNE.** Direction of faulting in certain earthquakes of the North Pacific. (Seismological Society of America. Bulletin, July 1951. v. 41, p. 221-42, tables, diags.)

Contains an application of P. Byerly's method for determining the direction of displacement in earthquakes by plotting stations in extended position. Four quakes are dealt with, including one in the Aleutian Islands and one in central Alaska, "the strike and dip of the fault and the direction of slipping being determined in each case."

**Copy seen:** DGS.

**HOEBEL, E. ADAMSON**, see Sanders, I. T. Societies around the world. 1952. No. 25824.

**22642. HØEG, OVE ARBO, 1898-**, and **J. LID**. Adventive plants in Spitsbergen. (Norske videnskabers selskab, Trondhjem. Forhandling, 1926-29, pub. 1929. Bd. 1, nr. 59, p. 176-78)

Contains a list of 26 adventive plants collected by Høeg, in the summer of 1928 during the Norwegian Spitsbergen Expedition, and determined by J. Lid; most of the species had probably been introduced with forage for horses.

**Copy seen:** DSI-M; MH.

**22643. HØEG, OVE ARBO, 1898-**. Food of the Spitsbergen ptarmigan in September. (Norske videnskabers selskab, Trondhjem. Forhandling, 1926-28, pub. 1929. Bd. 1, nr. 56, p. 165-68)

Contains an analysis of the contents of the craws of 16 specimens of *Lagopus hyperboreus* (ptarmigan) shot at the end of September 1928 during the Norwegian Spitsbergen Expedition; 23 species of flowering plants and vascular cryptogams have been identified, with *Polygonum viviparum* (bulbils and stalks) as the dominant species.

**Copy seen:** DSI-M; MH.

**22644. HØEG, OVE ARBO, 1898-**. Lichenological notes 3-5. (Norske videnskabers selskab, Trondhjem. Forhandling, 1934. Bd. 7, nr. 18, p. 63-65)

Contains critical notes on three lichens, including *Cetraria norvegia*, occurring in Hemnas, Nordland, northern Norway; pts. 1-2 do not include arctic material.

**Copy seen:** DSI-M; MH.

**22645. HØEG, OVE ARBO, 1898-**. Om androgyne former av *Salix glauca* L. (Norske videnskabers selskab, Trondhjem. Forhandling, 1934. Bd. 7, nr. 22, p. 78-80, illus.) **Title tr.:** On androgynous forms of *Salix glauca* L.

Contains descriptive notes on androgynous forms of a willow, *Salix glauca*,

based on material from Nordland, Tromsø and Finnmark in northern Norway.

**Copy seen:** DSI-M; MH.

**22646. HØEG, OVE ARBO, 1898-**. On crusts of gypsum on the soil at Klaas Billen Bay, Spitsbergen. (Norske videnskabers selskab, Trondhjem. Forhandling, 1939, pub. 1940. Bd. 12, nr. 31, p. 111-114, illus.)

Contains chemical analyses of some water samples and whitish crusts on the soil brought home by the author in 1939, from the streams in the Pyramiden Mts., Klaas Billen Bay, West Spitsbergen; the results show high content of dissolved inorganic matter, especially gypsum, in the water and in the crusts; the influence of gypsum on the vegetation is discussed.

**Copy seen:** DSI-M; MH.

**22647. HØEG, OVE ARBO, 1898-**. Pollen on humble-bees from Ellesmere Land. (Norske videnskabers selskab, Trondhjem. Forhandling, 1929. Bd. 2, nr. 16, p. 55-57)

Contains an analysis of pollen on the humble-bees (eighteen specimens of *Bombus balteatus* and two of *B. hyperboreus*, collected on Ellesmere Island by the Second Norwegian Expedition on *Fram*; and comparison with pollen flora of Novaya Zemlya.

**Copy seen:** DSI-M; MH.

**22648. HÖHN, E. O., and D. L. ROBINSON**. Some supplementary bird notes from the general area of the Mackenzie delta and Great Slave Lake. (Canadian field-naturalist, May-June 1951. v. 65, p. 115-18)

Notes on 25 species of birds either additions to or otherwise interesting in connection with A. E. Porsild's *Birds of the Mackenzie delta*, 1943, (*Arctic Bibliography*, No. 13798); based on observations by Höhn at Aklavik, June-Sept., and at Fort Resolution, May-June 1949 (ten species); dates of spring arrival of certain species at Tuktoyaktuk, supplied by Robinson from observations, 1947-49. Bibliography (7 items).

**Copy seen:** DA; DI.

**HOEL, SIGURD, 1890-**, see Gullers, K. W., & S. Hoel. Norway. 1951. No. 22274.

**22649. HØY, GUNNAR**. Ornithologiske notiser fra Øst-Finmark 1930. (Norsk ornithologisk tidsskrift, 1930. Ser. 3, nr. 11-12, p. 245-47, illus., plate) **Title**

**tr.:** Ornithological notes from East Finnmark 1930.

Records of an owl (*Strix lapponica*) and a raptor (*Archibuteo lagopus*) nesting in Upper Pasvik.

**Copy seen:** DI.

**22650. HØYE, K.** Untersuchungen über die Schimmelbildung des Bergfisches. (Bergen, Norway. Museum. Aarbok, 1908, no. 4, p. 1-29, illus.) **Title tr.:** Investigations on mould formation on codfish.

Contains the results of an experimental study, carried out on Lofoten Islands, on five kinds of salt, used in curing of codfish (*Bacalao*) to control the formation of mould, caused by a minute sac fungus *Torula epizoa*; with data on hydrosensitivity and other characteristics of salt and its influence on curing of codfish, presence of yeast and other microorganisms; discussion of disinfection as the most efficient way of checking the development of mould.

**Copy seen:** MH-Z.

**22651. HØYGAARD, ARNE, 1906-** Tuberculosis in Eskimos. (Lancet, Sept. 24, 1938, v. 235, p. 758-59, map)

Report of an investigation made by the Norwegian Medical Expedition in 1936-37 in Angmagssalik, East Greenland, inhabited by 806 pure-blood Eskimos. Of 106 living in or near the trading station 10 percent were found to suffer from tuberculosis, whilst in the outlying settlements only 11.5 per cent were so found. Blood-spitting and nose-bleeding is common but not so serious a sign as elsewhere; it is due to an unusually vulnerable respiratory tract. Vitamin-C (or vitamin-P) deficiency is uncommon except in the trading center. In four southern communities (population 111) no tuberculosis was found and it is probable that tuberculosis may die out in isolated settlements. To combat infection the population should be prevented from congregating round the trading center. Bibliography (8 items).

**Copy seen:** DSG.

**22652. HOFF, H. E., and H. STANSFIELD.** Ventricular fibrillation induced by cold. (American heart journal, Aug. 1949, v. 38, p. 192-204, 6 fig.)

Contains a study on anesthetized, curarized dogs with the lateral wall of the left ventricle cooled locally, with induction shocks applied to the ventricle away from the cooled area, and electrocardiographically recorded. The responses developed at the cooled area

because cooling produced a potential difference between the cooled and the adjacent areas. Bibliography (18 items).

**Copy seen:** DLC.

**22653. HOLCOMB, RICHMOND C.** Syphilis of the skull among Aleuts and the Asian and North-American Eskimo about Bering and arctic seas. (United States naval medical bulletin, 1940, v. 38, p. 177-92, illus., map, table)

Report on a study of 17 syphilitic skulls under the following heads: skulls from the Siberian side of Bering Strait; skulls from St. Lawrence Island; Aleut skulls; the Russian period; early clinical evidence of syphilis in Alaskan regions; the origin of syphilis in Alaska. The report includes a description of the skull's origin, the pathological involvements, a pathological opinion and an anthropological opinion. Bibliography (about 70 items).

**Copy seen:** DSG.

**HOLDHAUS, K.** see Székessy, V. Neuer Fall v. borealpinen Verbreitung bei Koloephteren. 1934. No. 26580.

**22654. HOLGERSEN, HOLGER.** Ants of northern Norway (Hym., Form.) Tromsø, K. Karlsens tryk., 1942. 33 p., map. (Tromsø, Norway. Museum. Aarshefter, 1940. Bd. 63, nr. 2, Naturhistorisk avd. 24)

Contains a critical revision of 19 species of the ant fauna of northern Norway (Nordland, Tromsø, Finnmark), with tables of subfamilies, genera and species, additional list of localities, bibliography (21 items), and a map showing the division of northern Norway into biogeographic sectional areas.

**Copy seen:** DSI-M;MH-Z.

**22655. HOLGERSEN, HOLGER.** Bestemmelsetabell over norske maur (Hym. Formicidae). (Norsk entomologisk tidsskrift, 1943. Bd. 6, hefte 4-5, p. 164-82, illus.) **Title tr.:** Tables for the determination of Norwegian ants.

Contains a table for the determination of subfamilies, genera and species of Norwegian ants (Formicidae) and a table of distribution of 24 species and 14 varieties and subspecies in 20 biogeographic regions of Norway, including Nordland, Tromsø and Finnmark.

**Copy seen:** MH-Z.

**22656. HOLGERSEN, HOLGER.** Bidrag til Norges Formicidafauna. (Norsk entomologisk tidsskrift, 1938. Bd. 5,

hefte 2, p. 74-78) *Title tr.*: A contribution to Norwegian Formicidae.

*Contains* a list of 22 species of ants inhabiting Norway, including 12 species, native to Finnmark, Tromsø and northern Nordland, and list of localities for all species. *Copy seen*: MH-Z.

**22657. HOLGERSEN, HOLGER.** *Formica gagatoides* Ruzs. in Norway. Tromsø, P. Norbye, 1943. 17 p., illus., plate. (Tromsø. Norway. Museum. Aarshefter, 1941. Bd. 64, nr. 1, Naturhistorisk avd. nr. 26)

*Contains* a study of identity and taxonomy of an ant, *Formica gagatoides* known from the Murman and Yakutsk regions and then found in Norway, including Tromsø province; bibliography (22 items).

*Copy seen*: DSI-M; MH-Z.

**22658. HOLGERSEN, HOLGER.** Hymenoptera aculeata, Fam. Formicidae. (In: Brinck, P. S. V., and K. G. Wingstrand, *Mountain fauna of Virihaure*, 1949-51. pt. 2, p. 65-68.)

*Contains* description of two species of ants, *Leptothorax acervorum* and *Formica gagatoides*, found in Virihaure area of Lule Lappmark, with data on their habitat, ecology and their Scandinavian and total distribution.

*Copy seen*: MH-Z.

**22659. HOLGERSEN, HOLGER.** Myrmekologiske notiser I-II. (Norsk entomologisk tidsskrift, 1940, Bd. 5, hefte 4, p. 183-87; 1942, Bd. 6, hefte 2-3, p. 93-98) *Title tr.*: Myrmecological notes I-II.

*Contains* (in pt. I) a list of 13 species and one variety of ants with brief descriptive notes and data on distribution, including *Myrmica loevinodis*, captured by Esmark in Polmark, Finnmark (77°06' N.) the most northern locality for that species. In pt. II, are historical notes on the study of *Harpagozenus sublaevis*, a list of Norwegian localities and data on general distribution. Summary in English (Pt. I), and German (pt. II).

*Copy seen*: MH-Z.

**22660. HOLGERSEN, HOLGER.** Norske sikader (Homoptera cicadina) II. Underfam. Tettigoninae, Acocephalinae, Bythoscopininae, (excl. *Macropsis*). (Bergen, Norway. Museum. Aarbok; naturvidenskabelig, rekke, 1944, pub. 1945, nr. 9, p. 1-37, text maps 1-5) *Title tr.*: Norwegian cicadas (Homoptera cicadina) II. Subfamilies Tetti-

goninae, Acocephalinae, Bythoscopininae (excl. *Macropsis*).

*Contains* data on distribution of 39 species of cicadas (Homoptera cicadina) in Norway, including ten new to the fauna of Norway and six species occurring in Nordland, Tromsø and Finnmark counties, with lists of localities for each species and a table of distribution in faunistic regions of Norway. For pt. I of this study, see *Arctic Bibliography*, No. 7247.

*Copy seen*: MH-Z.

**22661. HOLGERSEN, HOLGER.** Norske sikader (Homoptera cicadina) III. De norske arter av slekten *Thamnotettix* Zett. 1839. (Norske entomologisk tidsskrift, 1945. Bd. 7, hefte 3-4, p. 107-114, text map) *Title tr.*: Norwegian cicadas (Homoptera cicadina) III. Norwegian species of the genus *Thamnotettix* Zett. 1839.

*Contains* a critical revision of eight Norwegian cicadas of the genus *Thamnotettix* and data on their distribution in Norway (see text map and table on p. 113); includes *T. prasinus* and *subfuscus* having a wide distribution from the south to about 70° N.; *T. cruentatus* (Tromsø) and *T. torneelus* found rarely in Finnmark. Summary in English.

*Copy seen*: MH-Z.

**22662. HOLGERSEN, HOLGER.** Om den del norske fulgorider (Norske sikader, Homoptera cicadina, IV). (Norsk entomologisk tidsskrift, 1946. Bd. 7, hefte 5, p. 149-55) *Title tr.*: On Norwegian fulgorids. (Norwegian cicadas, Homoptera cicadina, IV)

*Contains* a systematic survey of 14 species of Norwegian fulgorids and a table of their distribution in Norway, including *Criomorphus bicarinatus* and *C. borealis* found in Saltdalen, about 67° N. Summary in English.

*Copy seen*: MH-Z.

**22663. HOLGERSEN, HOLGER.** Tre maur-arter som bør ettersøkes i Sverige (Hym., Formicidae). (Norsk entomologisk tidsskrift. 1944. Årg. 65, häft. 3-4, p. 199-202) *Title tr.*: Three ant species occurring in Sweden (Hym., Formicidae).

*Contains* a critical study of three Swedish species of hymenopterous genus *Formica* (*Serviformica*), including *F. gagatoides* known from northern Siberia and European Russia (Arkhangel'sk province, Kola Peninsula) and Swedish Lapland and northern Norway, and com-

parison with other northern related species of the same genus.

**Copy seen:** DA; MH-Z.

**22664. HOLIK, O.** *Zygaena exulans* var. *polaris* m. (nov. var.) und *Zyg. exulans* ssp. *vanadis* Dalm. (Entomologisk tidskrift, 1935. Årg. 56, häft. 1-2, p. 47-51)

Contains a German diagnosis of *Zygaena exulans polaris* n. var., a moth collected on Rybachyiy Peninsula (70° N.) on the Murman coast by W. Kotzsch-Blasewitz; and a comparative taxonomic study of *Z. exulans*, *Z. exulans* ssp. *vanadis* (Kvikkjokk, Lule Lappmark and Snuritjokko, Torne Lappmark) and *Z. vanadis*. **Copy seen:** DA; MH-Z.

**22665. HOLLAND, DAN.** The trophy is still there. (Elks magazine, Dec. 1952. v. 31, no. 7, p. 6-7, 39-42, illus.)

Contains popular account of author's experiences in northern Alaska Aug. 1952, while assisting Clarence Rhode, Alaskan regional director of the Fish and Wildlife Service, in a game survey especially of the white Dall sheep in the Brooks Range (1500 were counted). River basins on the north slope of the Range from Chandler River eastwards to Canadian border were covered. Flying weather, terrain, wild life, vegetation, Eskimos of one village visited (70 population), particularly their hunting, are noted.

**Copy seen:** DLC.

**22666. HOLLAND, GEORGE P.** A note on the occurrence of *Catallagia dacenkoi* Ioff in North America, with the description of a nearctic subspecies (Siphonaptera: Neopsyllidae). (Canadian entomologist, June 1951. v. 83, p. 156-60, plate)

Full descriptions of male and female of a non-combed neopsyllid flea from mice and voles of Alaska, Mackenzie delta (and elsewhere) *Catallagia dacenkoi fulleri*, new subspecies. **Copy seen:** DSI-M.

**HOLLAND, M. F. W.,** see Baker, B. H., & others. Fossiliferous strata Kapp Scania Vest Spitsbergen. 1952. No. 20419.

**22667. HOLLER, K.** Hydrothermale Zersetterscheinungen an grönländischen Basalten. (In: Linck, G., and E. Blanck. Chemie der Erde, 1933. Bd. 8, p. 25-44, illus.) **Title tr.:** Hydrothermal breakdown phenomena in basalts of Greenland.

Detailed discussion of results of chemical analyses and petrographic study of red products of hydrothermal decomposi-

tion which occur in the basalts of Lyngemarkensfeld near Godthavn on the island of Disko, West Greenland. The rocks lie under zeolithic cemented basalt-breccia which is overlain by compact basalt. Samples of the red products were collected by the Hessian Greenland Expeditions of 1925 and 1929. Bibliography (32 items). **Copy seen:** DGS.

**22668. HOLM, ÅKE.** Opiliones, Araneae. (In: Brinck, P. S. V., and K. G. Wingstrand. Mountain fauna of Virihaure, 1949-51, pt. 2, p. 138-49, illus.)

Contains a systematic list of one opiloid, *Mitopus morio*, and 55 spiders (in 11 families) native to Virihaure area of Lule Lappmark, with data on habitat and total distribution.

**Copy seen:** MH-Z.

**22669. HOLM, ÅKE.** Revision einiger norwegischer Spinnen-arten und Bemerkungen über deren Vorkommen in Schweden. (Entomologisk tidskrift, 1944. Årg. 65, häft. 3-4, p. 122-34, illus.) **Title tr.:** Revision of some Norwegian spider species and notes on their occurrence in Sweden.

Contains descriptive notes and data on distribution in Sweden of eight Norwegian spiders, including six species native to Swedish Lapland or the northern region of Norway. **Copy seen:** DA, MH-Z.

**22670. HOLM, ÅKE.** Zur Kenntnis der Spinnenfauna des Torneträskgebietes. (Arkiv för zoologi, 1945. Bd. 36A, no. 15, p. 1-80, illus.) **Title tr.:** A contribution to the knowledge of the spider fauna of the Torneträsk region.

Contains a systematic list of 168 species of spiders found in the vicinity of Torneträsk, Torne Lappmark, and descriptions of ten new and 32 little known species, with synonymy, amended data and notes on distribution.

**Copy seen:** DSI-M; MH-Z.

**22671. HOLM, ÅKE.** Zur Kenntnis der Taxonomie, Ökologie und Verbreitung der schwedischen Arten der Spinnengattungen *Rhaebothorax* Sim., *Typhochraestus* Sim. und *Latithorax* n. gen. (Arkiv för zoologi, 1943. Bd. 34A, no. 19, p. 1-32, illus., plates 1-3) **Title tr.:** A contribution to the study of the taxonomy, ecology and distribution of Swedish species of the spider genus *Rhaebothorax* Sim., *Typhochraestus* Sim. and *Latithorax* n. gen.

Contains a critical revision of five Swedish species of the spider genus

*Rhaebothorax*, *Typhochraestus pallidus* and two species of a new genus *Latithorax* with descriptions, including *R. monticola* n. sp.; synonymy, data on Scandinavian and total distribution (Greenland, West Spitsbergen) are given as well as discussion of ecology and vertical distribution; all species are native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**22672. HOLM, BJÖRN.** Gräshopper från Torne Lappmark. (Opuscula entomologica, 1947. Bd. 12, häft. 4, p. 150) **Title tr.:** Grasshoppers from Torne Lappmark.

Contains a report of finding of three grasshoppers, *Mecostethus grossus*, *Chorthippus montanus fennoscandicus* and *Melanoplus frigidus* in various localities in Torne Lappmark, Sweden.

**Copy seen:** DA; MH-Z.

**22673. HOLM, BJÖRN.** Insektnotiser från Norrbotten. (Opuscula entomologica, 1949. Bd. 14, no. 2-3, p. 120) **Title tr.:** Notes on insects from Norrbotten.

Contains notes on four species new to orthopterous fauna of Norrbotten. Summary in German.

**Copy seen:** DA; MH-Z.

**22674. HOLM, LENNART.** Taxonomical notes on Ascomycetes II. The herbicolous Swedish species of the genus *Leptosphaeria* Ces. et De Not. (Svensk botanisk tidskrift, 1952. Bd. 46, häft. 1, p. 18-46, illus.)

Contains a survey of the herbicolous species of the fungal genus *Leptosphaeria* hitherto found in Sweden, with a determinative key, some notes on occurrence and habitat of 62 species, including nine native to Swedish Lapland and Norrbotten, together with a few remarks on characters of diagnostic value; based primarily on the collections of Naturhistoriska Riksmuseet in Stockholm and the Botanical Museum of the University of Uppsala.

**Copy seen:** MH-A.

**22675. HOLMBERG, HENRIK JOHAN, 1818-1864.** Ethnographische Skizzen über die Völker des russischen Amerika. Helsingfors, Gedruckt bei H. C. Friis, 1856-63. 2 pt. (Finska vetenskaps-societeten. Acta, v. 4, p. 281-421, fold. map; v. 7, p. 35-101) **Title tr.:** Ethnographic sketches of the peoples of Russian America.

Ethnological and historical study based

chiefly on printed Russian sources and on author's (a Finnish naturalist) own observations during his stay at Sitka, Kodiak and other places in 1850-51. Pt. 1 contains an ethnological study of the Tlingit Indians and South Alaskan Eskimos (Koniaks). Division of the natives of Russian America into four main "national" groups, Tlingits, Eskimos ("Konjagen"), Tanaina ("Thaina") and Aleuts, and their subdivision into tribes, p. 3-8. Description of the Tlingits (p. 9-74): their name in Russian (Kalúshi or Koloshi) and in English (Tlingits); division into clans and families and social differentiation; physical characteristics, clothing, adornments, semi-nomadic way of life, dwellings and inhabited places; canoes, implements and use of iron, arts; fishing and hunting; customs, marriage, social condition of women; hostilities; burials, feasts, slavery; religion and myths, especially Jeshl-myth, shamanism and sorcery; description of the Eskimo natives of Kodiak and adjacent islands (p. 77-141): statistical data on population, social differentiation, physical characteristics, tattooing, clothing; food, inhabited places and dwellings, equipment, kayaks and implements, handicraft, fishing, whaling and hunting, family relations, former polygamy, social position of women, burials, gambling, feasts, native stories about first encounters with Russians, remnants of old mythology.

Part 2, bearing subtitle: Entwicklung der Russisch-Amerikanischen Compagnie.—Miscellen (Development of the Russian American Company—Miscellanies), contains a history of the Russian colonization of America, in two periods: (1) 1741-1784, from the last journey of Bering till the settlement of G. S. Shelikhov on Kodiak Island, gives a summary of Russian discoveries in America, first Russian settlements, relations with natives, p. 39-51; (2) 1784-1818, the development of the Russian American Co. under G. S. Shelikhov and A. A. Baranov, a survey of Russian colonization in America, administration, missionary work, commerce, relations with the natives, with stress on the struggle of Aleuts and Tlingits against Russian colonization, p. 51-75. Miscellanies include two stories characterizing the psychology of the Tlingits, p. 76-80. Bibliographical footnotes in both parts. Map (fold.) of Russian possessions in America, indicates areas inhabited by various native groups.

**Copy seen:** DLC.

**22676. HOLMBERG, HENRIK JOHAN, 1818-1864.** Hydrographische und orographisch-geognostische Beobachtungen im nördlichen Finnland, als Ergebnisse der Golduntersuchungen in den Jahren 1847, 1848 und 1850. (Vserossilskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1855-56, pub. 1856, p. 1-62, map) **Title tr.:** Hydrographical, orographical and geognostic observations in northern Finland carried out in 1847, 1848 and 1850 during the investigation of gold resources.

*Contains* notes on the history of the search for gold in Finland and general data on a few (very poor) gold deposits discovered, p. 1-22; the author's observations on hydrography of Kuusamo parish, northern Finland, arranged by districts, p. 23-37, and on orography and geognosy of the same parish (see map), p. 37-62.

**Copy seen:** MH-Z.

**22677. HOLMBERG, HENRIK JOHAN, 1818-1864.** Materialier till Finlands geognosi, första serien. Helsingfors, Finska Litteratursällskap tryckeri, 1858. xxv, 254 p. (Bidrag till Finlands naturkännedom, etnografi och statistik. Häft. 4) **Title tr.:** Materials on geognosy of Finland, pt. 1.

*Contains* a bibliography (83 items) in introduction, p. xviii-xxv, and data on geognosy and petrography of Finland arranged by the provinces (län) and districts, including Uleåborgs län (Kuusamo, Kemi, Neder Torneå, Öfver Torneå, Rovaniemi and Lappmark) p. 151-97.

**Copy seen:** DLC; MH.

**22678. HOLMBERG, HENRIK JOHAN, 1818-1864.** Mineralogischer Wegweiser durch Finnland. Helsingfors, Finn. Litter.-Gesellschaft, 1857. 76 p. (Bidrag till Finlands naturkännedom etnografi och statistik. Häft. 1) **Title tr.:** A mineralogical guide through Finland.

*Contains* a list of minerals in the rock formations of Finland, arranged by provinces and districts (parishes), including data on Kuusamo, Pudasjärvi, Rovaniemi, Kemi, Torneå, Öfver-Torneå and Sodankylä districts ("Kirsipel") (p. 46-49).

**Copy seen:** DLC; MH.

**HOLMBERG, UNO, see HARVA, UNO, 1882-**

**22679. HOLMBOE, JENS, 1880-1943.** Einige Grundzüge von den Pflanzen-geographie Norwegens. (Bergen, Norway. Museum. Aarbok; naturvidenskabelige rekke, 1924-25, pub. 1925, nr. 3,

p. 1-54) **Title tr.:** Some main features of the phytogeography of Norway.

*Contains* a physical and geographic survey of Norway and a study of plant formations of various biogeographic regions (hardwood region, coniferous forest, birch zone, coastal zone and alpine region); and a discussion of the influence of man on the vegetation; northern regions of Norway are included in this general study. Bibliography (125 items).

**Copy seen:** MH-Z.

**22680. HOLMBOE, JENS, 1880-1943.** Høiere epifytisk planteliv i Norge. Christiania, A. W. Brøggers bogtryk., 1904. 39 p. (Norske videnskaps-akademi, Oslo. Forhandling, 1904, no. 6) **Title tr.:** Higher epiphytic plants in Norway.

*Contains* a survey of earlier data on epiphytes in literature and scientific publications, their occurrence and host plants, a systematic list of 83 higher plants (p. 12-24) with host plants, localities and notes on the way of association, spreading of epiphytes (active and passive) and data on living conditions of epiphytes. Includes some species native to northern regions of Norway.

**Copy seen:** MH-Z.

**22681. HOLMBOE, JENS, 1880-1943.** Hvad lrypen lever av i Norge. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1922-23, pub. 1924, no. 5, p. 1-54, text map) **Title tr.:** What the white ptarmigan lives on in Norway.

*Contains* a study of the vegetative diet of the white ptarmigan (willow grouse), *Lagopus lagopus*, with lists of plants found in the crop and claw of this game bird for every month, a general list of cryptogams (seven species of mosses and five of ferns) and 65 species of flowering plants used as food, with localities (p. 30-39), and discussion of the results (p. 39-53). The investigation was carried out in various regions of Norway, including Alten, Finnmark and Lofoten Islands. **Copy seen:** MH-Z.

**22682. HOLMBOE, JENS, 1880-1943.** Lidt om *Monotropa hypopitys* i Norge. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1919-20, pub. 1921, nr. 4, p. 1-21, text maps 1-3) **Title tr.:** A few words on *Monotropa hypopitys* in Norway.

*Contains* a critical revision of Norwegian forms of an herb, *Monotropa hypopitys*, with synonymy, critical notes

and lists of Norwegian localities; includes var. *glabrescens* nov. nom., distributed in northern Norway and reaching Tysfjord, Nordland (68°07' N.).

**Copy seen:** MH-Z.

**22683. HOLMBOE, JENS, 1880-1943.** Om faunaen i nogle skjaelbanker og lerlag ved Norges nordlige kyst. Kristiania, A. W. Brøgger, 1903. 65 p. illus., plate 1. (Norges geologiske undersøgelse, 1904, no. 37. Aarbog for 1904) **Title tr.:** On the fauna of some raised beds of shell and clay deposits on the northern coast of Norway.

**Contains** a study of fossil molluscs with lists of species for various localities of Nordland, Tromsø and Finnmark provinces, descriptive notes on 35 species; discussion of the submergence of the northern part of Norway in the interglacial period, corresponding to the "boreal marine transgression" in northern Russia; its influence on the climate and fauna of the region. Summary in English.

**Copy seen:** MH-Z.

**22684. HOLMEN, KJELD.** Cytological studies in the flora of Peary Land, North Greenland, København, C. A. Reitzel, 1952. 40 p. illus. (Meddelelser om Grønland. Bd. 128, nr. 5)

**Contains** the results of an investigation of chromosome number in 63 species of higher plants collected on the Danish Peary Land Expedition, 1947-1950. Bibliography (51 items).

**Copy seen:** DGS.

**22685. HOLMEN, KJELD.** *Funaria polaris* Bryhn in Greenland. (Bryologist, Dec. 1952. v. 55, no. 4, p. 249-50)

**Contains** an account of this rare moss, found by the author on Ella Island in northeast Greenland (72°58' N. 25°10' E.). The nature of the substrate; plant associations; anatomy and morphology of the plants are described. Bibliography (5 items).

**Copy seen:** DA.

**HOLMEN, KJELD, see also** Winther, P. C., & others. Prelim. account Danish Pearyland Exped. 1950. No. 27458.

**22686. HOLMES, JACK.** The Alaska Highway keeps rolling them north. (Forest and outdoors, Jan. 1947. v. 43, no. 1, p. 8, illus.)

**Contains** information on the sorts of people who use this road; its administration, maintenance and maintenance

crews; overnight accommodations, restaurants, stores, gas stations, etc.

**Copy seen:** DA.

**HOLMES, JOHN F., see** Polar record. Oceanographic investigations Pt. Barrow 1949. 1950. No. 25160.

**22687. HOLMES, P. M.** Waterfowl conservation on James Bay. (RCMP. quarterly, Apr. 1951. v. 16, no. 4, p. 319-24, illus.)

**Account** of concentrations of blue, snow and Canada geese, also other birds at six localities on James Bay, from viewpoint of police supervision over hunting parties in the open season; remarks on RCMP enforcement of game laws, bird sanctuaries in the area, etc.

**Copy seen:** CaMAI.

**22688. HOLMGREN, AUGUST EMIL, 1829-1888.** Gräsmasken; några ord med anledning af denna skadeinsekts uppträdande i Norrland 1883. (Entomologisk tidskrift, 1884. Årg. 5, häft 3, p. 151-61, 222-25) **Title tr.:** The antler moth (lit. "grassworm"); notes on the appearance of this noxious insect in Norrland in 1883.

**Contains** data on taxonomy and biology of *Chareas graminis*, very injurious to grasses, with a list of species mostly affected by this pest and another list of grasses left intact; based on the author's observations in Norrland and Norrbotten in 1883. Summary in French.

**Copy seen:** DA; MH-Z.

**22689. HOLMGREN, AUGUST EMIL, 1829-1888.** Parasitsteklar insamlade i Norrland och Lappland af Joh. Rudolphi. (Entomologisk tidskrift, 1884. Årg. 5, häft 1, p. 63-66, 92) **Title tr.:** Parasitic hymenopters collected in Norrland and Lapland by Joh. Rudolphi.

**Contains** a list of 14 parasitic hymenopters, including Latin diagnoses of *Ichneumon ringii*, n. sp. and six other species native to Jokkmokk region, Torne Lappmark. Summary in French.

**Copy seen:** DA; MH-Z.

**HOLMGREN, AUGUST EMIL, 1829-1888, see also** Lindqvist, E. Über d. v. Holmgren beschriebenen Nematinen. 1944. No. 23901.

**22690. HOLMSEN, GUNNAR, 1880- .** Nordfollas omgivelser. Kristiania, H. Aschehoug & Co., 1919. 18 p., plate. (Norway. Norges geologiske undersøkelse. [Publications] nr. 83. Aarbok for 1919,

no. 2) *Title tr.*: The environs of Nordfolla.

Geological description of the region surrounding the northern branch of Folda, a fiord in northern Norway at 67°40' N. 4°-5° E., with special attention to the glacial geology and raised shore lines. The author assisted in mapping the area, shown in J. B. Rekstad's *Geologiske iakttagelser på strekningen Folla-Tysfjord*, 1919 (*Arctic Bibliography*, No. 14370) Summary in English, p. 17-18. *Copy seen*: DGS.

**22691. HOLMSEN, GUNNAR, 1880-** . Sulitelmatrakten. Kristiania, H. Aschehoug & Co., 1917. 47 p., illus. (Norway. Norges geologiske undersøkelse. [Publications] nr. 81. Aarbok for 1917, nr. 3) *Title tr.*: Sulitelma district.

Detailed description of the geology and discussion of origin of copper ore-bearing eruptives in this district in northern Norway at 67°10' N. and just east of 5°30' E. "The formation consists of metamorphosed Cambrian and Silurian schists, traversed conformably to their strike and dip by a series of eruptive rocks, ranging from granite to gabbro, the ore occurrence being especially associated with the latter, metamorphosed by pressure to amphibolite and chlorite." Bibliography (46 items). Summary in English, p. 44-47. *Copy seen*: DGS.

**22692. HOLTEDAHL, OLAF, 1885-** . On the Caledonides of Norway, with some scattered local observations. Oslo, J. Dybwad, 1944. 31 p. illus., map. (Norske videnskaps-akademi, Oslo. 1. Matematisk-naturvidenskapelig klasse. Skrifter, 1944. Bd. 1, no. 4)

*Contains* a study of the true character and genesis of gneiss and granite masses of the northwestern areas of Norway, with data on distribution of pre-Devonian rocks folded during Caledonian time (see map). The granite and gneiss area of Tromsø and Lofoten - Vesteraalen group is included, also sedimentary beds of the Nordland mica-schist-marble series. Some local observations are made on occurrence of tillite in Magerøy in Finnmark. Bibliography (63 items).

*Copy seen*: MH-Z.

**22693. HOLTEDAHL, OLAF, 1885-** . Supposed marginal fault lines in the shelf area off some high northern lands. (Geological Society of America. Bulletin, May 1950. v. 61, p. 493-500, incl. 4 p. diagrs.)

"Studies of the shelf topography off Norway [including Tromsø] indicate that the high northwestern part of the Scandinavian Peninsula is bordered by fractures along which dislocations probably took place during the Tertiary uplift of the land mass . . . Attention is drawn to the fact that similar relief features are characteristic also of shelf areas off West Greenland and Labrador."—Author's abstract. *Copy seen*: DGS.

**HOLTERMAN, HUGO**, see Boë, F., & others. Adrenocorticotrophic hormone in whale. 1951. No. 20757.

**HOLTAMP, DORSEY E.**, see Irwin, E., & others. Ascorbic acid content adrenal glands rats after cold. 1950. No. 22840.

**22694. HOLTVED, ERIK, 1899-** . Eskimokunst. Eskimo art, with an English summary by the author. København, Foreningen for ung dansk kunst, 1947. 64 p. (p. 33-64 plates). (Alverdens kunst, 4)

Discussion of Eskimo art as "applied art," connected with implements, hunting gear, household articles, clothing, toys, or ceremonial objects. Tradition in motifs and style of ornamentation is noted, as well as white man's influence, introducing new materials (glass beads), new motifs and pictorial art. Plates show examples of Eskimo art from Greenland, Canada and Alaska. Summary in English, p. 29-31. *Copy seen*: DLC.

**22695. HOLTVED, ERIK, 1899-** . The Polar Eskimos, language and folklore. I. Texts. København. C. A. Reitzels forlag, 1951. 367 p., 5 illus. (Meddelelser om Grønland, Bd. 152, nr. 1)

*Contains* text (in vernacular with interlinear English translation) of 178 myths, legends, etc., collected by the author during his sojourns in Thule District 1935-37 and 1946-47. Following an introduction in which the author describes method of transcription, the Eskimo narrators (with photographs), phonetics and translation, the texts are grouped: myths and legends of origin; fabulous beings; epics, fairy tales, songs for children, animal tales, and (100) historical legends.

*Copy seen*: CaMAI; DSI-M.

**22696. HOLTVED, ERIK, 1899-** . Remarks on the Polar Eskimo dialect. (International journal of American linguistics, 1952. v. 18, no. 1, p. 20-24)

Contains linguistic discussion of the little-investigated language of Eskimos of the Smith Sound region of northwest Greenland: the recording of material (mainly by the author); general characteristics of their mode of speech, accentuation (compared with that of West Greenlandic), effects of sentence stress, remarks on phonetics and morphology, archaic features and possibility of influence from Baffin Island.

**Copy seen:** DLC.

**22697. HOLTVED, ERIK, 1899- .** Thule distriktet. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 2, p. 269-90, incl. 6 p. of illus.) **Title tr.:** The Thule district.

Description of the northwesternmost district of Greenland between Melville Sound and Kane Basin, its landscapes and weather; its Polar Eskimos and their way of life, representing the last native group brought (by R. E. Peary) into contact with white men; development of the district and its people under Knud Rasmussen, administration since his death by the Greenland Styrelse (Administration). Bibliography (5 items).

**Copy seen:** DSI-M.

**HOLTVED, ERIK, 1899- , see also** Noe-Nygaard, A., & others. Notes on Danish scientific work. 1951. No. 24684.

**22698. HOLZAPFEL, RUPERT.** Extrem hohe Temperaturen und Föhn in Grönland. (Meteorologische Zeitschrift, 1935. Bd. 52, no. 8, p. 299-300) **Title tr.:** Extremely high temperatures and föhn in Greenland.

"Discussion of an article with the same title by Helge Petersen concerning the high temperatures observed in winter in Greenland. The author analyzed the relation of temperature to föhn phenomena."—*Meteorological abstracts and bibliography*, July 1951, v. 2, no. 7, p. 611. For abstract of Petersen's paper see *ibid.*, p. 610, also *Arctic Bibliography* No. 13380. **Copy seen:** DWB; MH-BH.

**22699. HOLZAPFEL, RUPERT.** Die Tätigkeit des deutschen Wetterdienstes der Luftwaffe in der Arktis während des Krieges. (Deutscher Wetterdienst in der US-Zone, Bad Kissingen. Berichte, 1950. Nr. 12, p. 129-34, sketch map; Ergänzungen zum Bericht, 12, 1951) **Title tr.:** Activity of the German Weather Service of the Air Force in the Arctic during the war.

Account of branches set up in Norway, and routine regional flights; The Faroes - Iceland - East Greenland - Jan Mayen - North Cape, also Jan Mayen - Vestspitsbergen - Novaya Zemlya; coordinated activities with the German Navy off East Greenland; establishment of winter stations at Longyear City, West Spitsbergen 1941-42, Hope Island, 1943-44, 1944-45, South Point, West Spitsbergen, and Bear Island, 1944-45; automatic stations on West Spitsbergen, Novaya Zemlya, and Bear Island; and the selection of program for Norwegian high altitude winter stations.

**Copy seen:** DWB.

**22700. HOMULOS, S.** Safety and mine rescue training in the Northwest Territories. (Canadian mining and metallurgical bulletin, Mar. 1952. v. 45, no. 479, p. 168-70, illus.)

Contains a survey of mining administration districts, and of the organizations responsible for safety and rescue work: the federal Dept. of Resources and Development inspectorate, the Mine safety committees, and the Northwest Territories safety council. The aims, equipment and training program for mine safety are described, specifically in Yellowknife district. **Copy seen:** DGS.

**22701. HONIGMANN, JOHN JOSEPH, 1914- .** An episode in the administration of the Great Whale River Eskimo. (Human organization, summer 1951. v. 10, no. 2, p. 5-14, tables)

Contains a record and analysis of responses of an Eskimo group (about 190 persons on southeast coast of Hudson Bay) to a government order of 1949, carrying the customary issuance of sugar and flour to eligible families. This and distribution of ammunition was done to induce the natives to increase their natural food supply. The consequences of these measures, including altered technological and diet patterns, changes of interpersonal relations among the natives, and in Eskimo-White dealings, are explored. Author concludes that local game supply can only be substantially increased if motorized boats and more efficient weapons are supplied to the Eskimos and that administration requires more exact knowledge of Eskimo way of thinking. **Copy seen:** CaMAI.

**22702. HONIGMANN, JOHN JOSEPH, 1914- .** Witch-fear in post-contact Kaska society. (American anthropolo-

gist, Apr.-June, 1947. v. 49, no. 3, p. 222-43, sketch map)

Study of witch-hunting (with torture or killing) among the Athabaskan group (about 200 in number) in the Liard-Francis-Dease River area of Yukon Territory. Author outlines the geographic distribution of the group, history of its contacts with white traders, missionaries and settlers; presents data on witch-fear (distinguishing witches and shamans), torture and murder of alleged witches, especially children; analyses the data to show that witch-fear among these Indians results from social stress induced by introduction of new illnesses, dispersal of game, increased problems of adaptation and growing domination of white people. Comparative references are made to neighboring Athabaskan groups and to other societies manifesting similar reactions to devastating effects of acculturation. Bibliography (43 items). **Copy seen:** DLC.

**22703. HOOPER, F. C.** A new method for heating buildings in the North. (Arctic circular, Mar. 1952. v. 5, no. 3, p. 29-32)

Contains a simple description of a "heat-pump," a device suggested by Dr. Misener for heating in the Arctic, which can cut fuel-oil consumption to less than half that required by conventional heating units. The principles on which the machine operates are outlined, and its performance described. A pilot model built at the University of Toronto has been tested for three seasons at Churchill. Its fuel economy, reduced fire hazard, and adaptation to supply electricity and water are noted. **Copy seen:** DLC.

**22704. HOPE, EARL R.** Frostbite; translations from the Russian of a collection of sixteen papers published between 1939 & 1944. Ottawa, Defence Research Board, 1950. 3 p. l., 108 p., 9 plates. Process print.

Contents: Ar'ev, T. ĪA. New findings re the pathology and clinical concept of frostbite. 1939. (No. 660).\*

Girgolav, S. S. Modern data on frostbite. 1943. (No. 5766)\*.

Girgolav, S. S., and T. ĪA. Ar'ev. Clinical handling and treatment of frostbite. 1940. (No. 5767)\*.

Khaskelevich, M. G., and V. ĪA. Vasil'kovan. Some new measures in the treatment of frostbite. 1941. (No. 8587)\*.

Genkin, R. L., and ĪA. F. Levin.

Clinical consideration, classification and treatment of frostbite. 1943. (No. 5620)\*.

Levin, A. I., and T. ĪA. Maizel'. On the carbohydrate metabolism rating of patients with frostbite. 1940. (No. 9966)\*.

Levin, A. I., and F. M. Khalefskaĭa. Contribution to the problem of the pathogenesis of frostbite. 1941. (No. 9965)\*.

Stoliarenko, D. Contribution to the question of the clinical aspects of frostbite. 1940. (No. 17054)\*.

Kiĭashev, A. P. Frostbite clinical data and treatment. 1944. (No. 8650)\*.

Smirnov, I. I., and Orlov. The treatment of congelation cases in evacuation hospitals. 1940. (No. 16245)\*.

Kevoṛk'ĭan, A. A. On the treatment of frostbite. (No. 8565)\*.

Golshmid, K. L., and M. F. Merezhinskii. Topical treatment of frostbite with vitamins. 1940. (No. 5902)\*.

Pavlov, S. T., and K. K. Smirnov. Frostbite prophylaxis by means of greases. 1942. (No. 13192)\*.

Georgievskaiā, L. M., and M. Z. Kotik. Lung chill. 1944. (No. 5645)\*.

Khalefskaĭa, F. M. On the influence of general cooling on the development of purulent infection in the lungs of the rabbit. 1940. (No. 8569)\*.

Shamshina, M. On the influence of rapid rewarming on blood pressure and respiration in acute hypothermia. 1943. (No. 15813)\*.

\*Each of these papers (in Russian) appears in *Arctic Bibliography* under the author's name (number noted). For review and summary of these papers, see W. G. Brandstadt, *Frostbite*, 1950.

**Copy seen:** DLC.

**HOPE, EARL R.,** see also Abol', I. P. Tractive performance KT12 tractor. 1951. No. 20028.

**HOPE, EARL R.,** see also Zubov, N. N. Arctic ice & warming of Arctic. (Transl.) 1950. No. 27622.

**22705. HOPKINS, DAVID MOODY,** 1921- . Age of the Denbigh flint complex. (Science, Nov. 7, 1952. v. 116, no. 3019, p. 513)

Contains a preliminary notice on geologic investigations at Iyatayet (on the west coast of Cape Denbigh, 115 miles east of Nome), the site of J. L. Giddings' excavations and discovery of the Denbigh flint complex, the oldest, well-known

cultural horizon in Alaska. Various types of evidence indicate that the people of this complex occupied the place during a warm interval, preceeded and followed by a climate colder than the present, some 8,500 or even 10,000 years ago. The age of three sites in the Brooks Range where Denbigh flint complex material has been collected, is also discussed. Bibliography (6 items).

*Copy seen:* DLC.

**22706. HOPKINS, DAVID MOODY, 1921-**, and **R. S. SIGAFOOS.** Frost action and vegetation patterns on Seward Peninsula, Alaska . . . A study of the geomorphic significance of vegetation patterns as related to frost action at high latitudes and in areas of perennially frozen ground. Washington, U. S. Govt. Print. Off., 1951. iii, 51-100 p., 1 l., illus. (incl. sketch map) 2 plates, diagrs. (U. S. Geological Survey. Bulletin 974-C; Contributions to general geology, 1950)

Contains a characterization of climate on Seward Peninsula, some definitions of vegetation and cryopedologic terms, notes on topography, drainage, geology, soils, permafrost, frost action, and congeliturbation (processes resulting in churning or stirring of the soil), and a study of frost scars, peat rings, tussock rings and groups, and tussock-birch-heath polygons in the Imuruk Lake region. "Frost scars, peat rings, tussock rings, tussock groups and tussock-birch-heath polygons are characteristic of permafrost areas where silty mineral soil is present beneath a cover of peat or turf less than 3 ft. thick. Frost scars on areas of bare soil resulting from disruption of the vegetable cover by local frost heaving. Peat rings, tussock rings and tussock groups consist of vegetation patterns associated with widely spaced mounds of mineral soil separated by channels filled with peat. These rings and groups represent stages in several developmental series all of which start with frost scars as initial form. The final features of these series are the results of frost churning. Vegetation in these areas represent an equilibrium assemblage adjusted to the climate in which it exists. The bare areas covered by pioneer plants are intimately mixed among areas covered by assemblages representing the highest stage in succession. Recognition on aerial photographs of cryopedological features will assist in the interpretation of terrain conditions."—SIPRE. Bibliography (33

items). An abstract of this paper was published in Geological Society of America. *Bulletin*, Dec. 1950. v. 6, p. 1471. For a criticism, see S. Taber *Geology, soil mechanics and botany*, 1952.

*Copy seen:* DGS.

**HOPKINS, DAVID MOODY, 1921-**, see also Sigafos, R. S., & D. M. Hopkins. Soil instability on slopes. 1952. No. 26195.

**HOPP, HENRY**, see Slater, C. S., & H. Hopp. Action frost water stability soils. 1949. No. 26260.

**22707. HOPPE, AUGUST, 1918-**. Nördliche Utopia. Menschen - Landschaften - Hintergründe in Norwegen. Stuttgart, Deutsche Verlags-Anstalt, [1948]. 204, [1] p., 1 l., 16 plates. *Title tr.*: Northern Utopia. Men, landscapes and background in Norway.

The author who lived for three years in northern Norway, writes of the history, development, physical features, peoples, cities, industries, and climatic characteristics of arctic Norway and Lapland. The book is illustrated from photographs by V. Pantenburg. *Copy seen:* DLC.

**22708. HOPPE, WALTER.** Das Oberflächenplankton längs der Fahrstrecke von der Deutschen Bucht zum Barentsmeer. (Helgoländer wissenschaftliche Meeresuntersuchungen, 1950. Bd. 3, p. 83-117, tables, diagrs., incl. charts) *Title tr.*: Surface plankton along the route from Deutsche Bucht to Barents Sea.

Using surface samples taken from German fishing vessels in Mar., July and Sept., the author characterizes the plankton qualitatively and quantitatively, showing the relation between water temperature, mixing and currents, and plankton types and between the proliferation of diatoms (Mar.) and quantity of plankton, in waters from the Baltic Sea to North Cape, Norway. Bibliography (31 items). *Copy seen:* DI.

**22709. HOPPER, BRUCE.** Population factors in Soviet Siberia. (In: Bowman, Isaiah, ed. Limits of land settlement. New York, Council on Foreign Relations 1937, p. 89-118, 5 maps)

Contains discussion of Soviet planning in relation to population expansion in Siberia, following an outline of the physical geography of the area, and an historical sketch of its colonization. The northern region's population increase

during 1926-35 is noted, its limited possibilities for settlement stressed. The indigenous population is not treated.

*Copy seen:* DLC.

**22710. HORN, GUNNAR, 1894-1947.** Om dannelsen av de nordlandske karstthuler. (Norsk geologisk tidsskrift, 1945. Bd. 25, p. 180-82) *Title tr.:* On the formation of northern karst caves.

"Attributes the formation of karst caves in northern Norway and Spitsbergen to melt waters circulating in fissures and fractures below the ice cap which covered northern Europe during the last stage of Pleistocene glaciation."—Geological Society of America, *Bibliography and index of geology*.

*Copy seen:* DGS.

**HORTON, BAYARD T.,** *see* Perry, E. L., & B. T. Horton. Use of pyribenzamine in treatment cold. 1947. No. 25041.

**HORTON, BAYARD T.,** *see also* Roth, G. M., & others. Relative rôles extremities dissipation heat. 1940. No. 25669.

**HORTON, BAYARD T.,** *see also* Sheard, C., & others. Skin temperature of extremities. 1941. No. 26096.

**22711. HORVATH, STEVEN MICHAEL, 1911-**, and others. Acclimatization to extreme cold. (American journal of physiology, July 1947. v. 150, p. 99-108) *Other authors:* A. Freedman and H. Golden.

Metabolic observations on five subjects under laboratory experimentation; no changes in basal values of heart rate or rectal temperature occurred; caloric expenditures were higher during exposure to low temperature; discussion of a case exhibiting different reactions; bibliography (16 items). *Copy seen:* DLC.

**22712. HORVATH, STEVEN MICHAEL, 1911-**, and H. GOLDEN. Observations on men performing a standard amount of work in low ambient temperatures. (Journal of clinical investigation, Mar. 1947. v. 26, p. 311-19, 4 fig.)

*Contains* a study of responses of men working at temperatures as low as  $-46.7^{\circ}$  C. in light and heavy clothing (components of the "arctic uniform" are specified). The energy expenditure for the standard work done increased by some 10 per cent at lower temperatures, independently of the amount of clothing worn. Ability and efficiency of work were not significantly impaired even at the lowest

ambient temperature. Loss of body heat was larger in light dress and directly related to ambient temperature. Heat debts were less, but variable, in heavy clothing; in all cases they were accumulated in the early phase of exposure to cold. Bibliography (6 items).

*Copy seen:* DLC.

**22713. HORVATH, STEVEN MICHAEL, 1911-**, and others. Reactions of men exposed to cold and wind. (American journal of physiology, Feb. 1948. v. 152, p. 242-49, 4 fig.)

*Contains* a study on men dressed in standard arctic clothing, exposed to a temperature of  $23^{\circ}$  C. and wind velocities of 0, 5, and 9.6 mph. Skin and rectal temperatures, oxygen consumption, insulative value of the clothing; effect of wind on the cooling rate of the body were measured and subjective responses recorded. Bibliography (6 items).

*Copy seen:* DLC.

**22714. HORVATH, STEVEN MICHAEL, 1911-**, and others. Some observations on men sitting quietly in extreme cold. (Journal of clinical investigation, Sept. 1946. v. 25, p. 709-716, 4 fig.) *Other authors:* H. Golden and J. Wager.

*Contains* a study on 45 healthy men dressed in "arctic clothing" (components specified) and exposed to temperatures of  $1.1^{\circ}$  to  $-40.0^{\circ}$  C. Continuous, repeated observations were made of the metabolic rate, skin and rectal temperatures. The responses were subject to considerable, individual variation and care is recommended in interpreting the data. Bibliography (9 items).

*Copy seen:* DLC.

**22715. HORVATH, STEVEN MICHAEL, 1911-**, and others. Survival time of various warm-blooded animals in extreme cold. (Science, Feb. 13, 1948. v. 107, p. 171-72, fig. table) *Other authors:* G. E. Folk, F. N. Craig, and W. Fleischmann.

*Contains* a report on the survival time and body temperature of various warm-blooded, adult animals, exposed to a temperature of  $-35^{\circ}$  C. The animals were not fed. Adaptability varied considerably between and within species, pigeons appearing especially well adapted to cold. Bibliography (2 items).

*Copy seen:* DLC.

**22716. HORVATH, STEVEN MICHAEL, 1911-**, and others. Ventilation of clothing

and tolerance of man to low environmental temperatures. (Journal of industrial hygiene and toxicology, Mar. 1948. v. 30, p. 133-39, illus.)

Report on tests to determine "the adequacy of modified garment combinations in preventing accumulation of sweat during work, and the thermal exchanges through these garment combinations at rest." Description of methods and discussion with tabular and diagrammatic presentation of results, including list of clothing worn. Bibliography (5 items).

**Copy seen:** DLC.

**HORWITT, BENJAMIN N.,** *see* Dorfman, R. I., & others. Presence cortin-like substance in urine men. 1942. No. 21535.

**22717. HOSKINSON, ALBERT J.** Control surveys in Alaska. (Surveying and mapping, Apr.-June 1952. v. 12, no. 2, p. 142-44, map)

Contains an account of control surveys by U. S. Coast and Geodetic Survey, along the Bering Sea coast from Point Lay (69°50' N. 162°55' W.) southward to Alaska Peninsula, including St. Lawrence and Nunivak Islands and some river basins near the coast. Survey methods, aircraft transport, for a 25-man party, personnel requirements, instruments, station marks, camping equipment, are indicated. Astronomic observations are outlined and changes in method imposed by northern conditions.

**Copy seen:** DLC.

**22718. HOSLEY, N. W., and F. S. GLASER.** Triplet Alaskan moose calves. (Journal of mammalogy, May 1952. v. 33, p. 247)

Contains the record of moose triplets observed in south central Alaska, Sept. 1950.

**Copy seen:** DGS.

**22719. HOURDE, RICHARD NASH.** Sophisticated Eskimos. (Beaver, Sept. 1952. Outfit 283, p. 36-37, illus.)

Contains anecdotes about Western Arctic Eskimos observed in 1936 at the Hudson Bay Co. post at Baillie Island. These Eskimos are shown as well-to-do traders using equipment such as schooners, cameras, phonographs, etc. Notes are added by Wm. Gibson explaining that this group of Eskimos has been long in close contact with white men and are distinct from more easterly groups in the degree of their conformity to European standards of living.

**Copy seen:** CaMAI.

**HOUSTON, J. R.,** *see* White, M. G., & others. Preliminary summary uranium Alaska. 1952. No. 27349.

**22720. HOUSTON, JAMES A.** Eskimo handicrafts. Montreal, Canadian Handicrafts Guild, 1951. 30, [2] p., illus. Written and illustrated by J. A. Houston, the Guild's arctic representative, and translated into Eskimo by Sam Ford and Frederica Woodrow, and published with approval of the Canadian Dept. of Resources and Development, Northwest Territories Branch.

Contains general instructions for Eskimos' guidance in preparing art objects for the white man's market; with (p. 3-30) illustrations and descriptive notes on objects suggested for carving, weaving, sewing, etc. Title and text are given in English and Eskimo. This work is part of a government-sponsored program to develop Eskimo handicrafts for sale in Canada.

**Copy seen:** CaMAI.

**22721. HOUSTON, JAMES A.** Eskimo sculptors. (Beaver, June 1951. Outfit 282, no. 1, p. 34-39, illus.)

Illustrations of soapstone carvings made by Labrador Eskimos and marketed through the Canadian Handicrafts Guild, with a brief account of this work.

**Copy seen:** DSI-M.

**22722. HOUSTON, JAMES A.** In search of contemporary Eskimo art. (Canadian art, Spring 1952, v. 9, no. 3, p. 99-104, 8 illus.)

Stone and ivory carving is presented as a skill of most Eskimo hunters of the Canadian Eastern Arctic; absence of warfare, enforced indoor living for long periods, keen observation of animal life aiding development of a general facility and occasionally of striking artistic talent. The primitive tools and methods, the traditional subjects are described, as well as the Eskimo's attitude to his handicraft, and the latter as expression of Eskimo character traits and way of life. The experiment of developing a handicrafts "trade" is outlined, the author having made five trips in the Hudson Bay region collecting over 20,000 objects which have been sold through the Canadian Handicrafts Guild. Author concludes with indication of the efforts to avoid "pitfalls in mass production of this type of art," to maintain essential characteristics of Eskimo art, its traditional theme's, genuine style, and its social function in the native community.

**Copy seen:** CaO; NN.

**HOUSTON, JAMES A.**, *see also* Harrington, R. Cheerful Eskimo. 1952. No. 22439.

**22723. HOVANITZ, WILLIAM, 1915-** . The biology of *Colias* butterflies, I. The distribution of the North American species. (Wasmann journal of biology, Spring 1950. v. 8, no. 1, p. 49-75, 8 maps) "The first of a series of papers [with] the end in view that final conclusions concerning the nomenclature or evolutionary history of the group will lie, not with preconceived notions, but with the data." Discussion by species (with use of a set of maps) of the distribution on the North American continent, where eight of the species occur in arctic and/or subarctic regions.

*Copy seen:* DSI-M.

**22724. HOVANITZ, WILLIAM, 1915-** . The biology of *Colias* butterflies, II. Parallel geographical variation of dimorphic color phases in North American species. (Wasmann journal of biology, Summer, 1950. v. 8, no. 2, p. 197-219, 6 maps, tables)

Second of a series of papers for which study was carried out with the aid of the Arctic Institute of North America and several other organizations. Eight of the species discussed occur in the arctic and/or subarctic regions of North America. "The relative proportions of the two-color alleles in various populations are not only different but vary from one population to the next in direct correlation with the variation of the general environmental conditions."

*Copy seen:* DSI-M.

**22725. HOVANITZ, WILLIAM, 1915-** . The biology of *Colias* butterflies, III. Variation of adult flight in the Arctic and Subarctic. (Wasmann journal of biology, Spring, 1951. v. 9, no. 1, p. 1-9, diag.)

Because there are more species of *Colias* in arctic than temperate regions of North America, a comparison of flight differences is more effective in the Arctic. Included in this paper are species of central Alaska, Yukon Territory, St. Elias Mts. and the Fort Smith and Yellowknife regions in Mackenzie District; also fragmentary evidence from other arctic localities.

*Copy seen:* DSI-M.

**HOWELL, S. ROBERT**, *see* Schlack, C. A., & S. R. Howell. Tests on prevention of fracture of glass containers due to

reezing of liquid contents. 1947. No. 25960.

**HRDLÍČKA, ALEŠ, 1869-1943**, *see* Lawrence, E. Syphilis as anthropologist *see* it. 1941. No. 23700.

**HRDLÍČKA, ALEŠ, 1869-1943**, *see also* Levin, M. G. K antropologii éskimosov. 1947. No. 23804.

**22726. HUBENDICK, BENGT, 1916-** . Die Artabrenzung bei den schwedischen Lymnaeiden der Radix-Gruppe. (Arkiv för zoologi, 1946. Bd. 37A, no. 10, p. 1-57, illus., plates) *Title tr.*: Systematic limitations of Swedish Lymnaeidae of the *Radix* group.

Contains a comparative anatomical study of six species of Swedish snails (Lymnaeidae) based partly on material from Norrbotten province, northern Sweden: characteristics of the shells and their variation in the *Radix* group, morphological causes of this variation, systematic conclusion; a general bibliography (50 items). *Copy seen:* DSI-M; MH-Z.

**22727. HUBER, LOUIS R.** Flight to Katmai; [and] Cataclysm. The first [and] second of two chapters of "The new dawn". (Alaska sportsman, Apr.-May 1951. v. 17, no. 4, p. 6-9, 38-41; no. 5, p. 22-25, 31-33, illus.)

Journalist's description of Katmai National Monument, Alaska, now opened by Northern Consolidated Airlines to tourists; the air services, five fishing camps, other accommodations, and unusual fishing opportunities; with notes on the eruption of Katmai, 1912, drawn from published accounts.

*Copy seen:* DI.

**22728. HUBER, WALTER.** Geologisch-petrographische Untersuchungen in der innern Fjordregion des Kejsers Franz Josephs Fjordsystems in Nordostgrönland. København, C. A. Reitzel, 1950. 84 p., illus., fold. plate. (Meddelelser om Grönland. bd. 151, nr. 3) *Title tr.*: Geologic-petrographic studies of the inner fiord region of the Kejsers Franz Josephs Fiord system in northeast Greenland.

Results of Danish Expeditions to East Greenland 1947-51, under Lauge Koch. The author describes the conditions found at numerous contacts between the (upper Algonkian) sedimentary Eleonore Bay Formation and the metamorphic complex on Suess and Andrees Lands, at Cape Mohn, Geolog-, Kempes, and

Rhedins Fjords (about 72°-74° N.); and the physiography and genesis of the rocks of "Isfjordzone" and the Sylva Maria group; with notes on the "subcambrian tillites." Bibliography (63 items).

**Copy seen:** DGS.

**22729. HUDSON BAY ROUTE ASSOCIATION.** Report of the eighth annual convention, The Pas, Manitoba. February 13th, 1951. North Saskatoon, Sask. 921 Ave "F". 64 p.

Contains lists of officers, financial statement reports, resolutions, correspondence, etc., on progress in development of traffic through the port of Churchill to and from European ports.

**Copy seen:** CaMAI.

**HUDSON'S BAY COMPANY,** see Fellgett, P. B. Generation electricity wind power. 1952. No. 21756.

**22730. HÜBSCHMANN, EBERHARD** W. Arktische Erdöl. (Polarforschung, 1947, pub. 1948. Bd. 2, Jahrg. 17, p. 173-75) **Title tr.:** Petroleum in the Arctic.

General survey of potential and known oil occurrences in the area north of 60° N. lat. in the U.S.S.R., Alaska and Canada, with remarks on the geology of the rest of the area in relation to possible occurrence of oil.

**Copy seen:** DGS.

**22731. HUEY, LAURENCE M.** An Alaskan record of the narwhal. (Journal of mammalogy, Nov. 1952. v. 33, no. 4, p. 496)

Contains a note on an unreported record of a narwhal (*Monodon monoceros*) represented by a skull and tusk in the collection of the San Diego Society of Natural History. The specimen was collected at the mouth of the Coville River (71° N. 151° W.) in 1928; this species is very rare in north Alaskan waters.

**Copy seen:** DGS.

**22732. HUGON, PIERRE MARIE CHARLES, 1900-** . Le point astronomique simplifié dans les régions polaires. Paris, 1950. 5 p. l., 16 p. incl. 2 tables, map, diagrs. (France. Ministère de l'Air. Notes techniques. no. 35) **Title tr.:** The astronomical position simplified in polar regions.

Mathematical analysis of method for rapid position finding, with sample tables for polar navigation of 5° and 10° co-latitude.

**Copy seen:** DLC.

**22733. HUITFELDT, FRITZ, 1851-1938.** Skiløbning i text og billeder. Kristiania, J. Dybwad [1908]. 88 p., illus. **Title tr.:** Skiing in text and pictures.

Based on the author's *Laerebog i Skiløbning* (Text-book in skiing) 1896 and Fred. Manning's *Das Skilaufen* (Skiing), Berlin 1907. Contains description of types of ski, footwear and dress, ski pole and braking, binding; spare parts for repairs, etc.; ski-jumping and ski-running. The Telemark style of skiing is recommended and treated in detail.

**Copy seen:** DLC.

**22734. HUKKI, R. T.** Pohjois-Suomen kaivosteollisuuden tulevaisuus. (Teknillinen aikakauslehti, 1950. v. 40, no. 14-15, p. 273-77, illus., map) **Title tr.:** The future of the mining industry in northern Finland.

Author urges program to explore and exploit mineral resources, he outlines previous geological and prospecting work, notes that "there are no metal mines in operation . . . mineral discoveries in this geologically favorable but little prospected area . . . have been of doubtful economic value so far. . . the future will depend largely on the efficiency with which the area can be prospected." English summary. **Copy seen:** DLC.

**22735. HUKKINEN, YRJO.** Notizen über unsere Schädlinge und Nützlinge, 4. Die Thysanopteren als Beute der Grabwespe *Spilomena troglodytes* v. d. Linden. (Notulae entomologicae, 1932. v. 12, no. 1, p. 21-26) **Title tr.:** Notes on our pests and useful insects, 4. Thysanoptera larvae as victims of *Spilomena troglodytes* v. d. Linden.

Contains data on the biology and useful activity of a hymenopter, *Spilomena troglodytes*, feeding on larvae of Thysanoptera injurious to many cultivated plants (tobacco, onions, etc.); *S. troglodytes* is spreading in Sweden to Swedish Lapland. **Copy seen:** DLC; MH-Z.

**22736. HULT, RAGNAR, 1857-1899.** Jordens klimatområden; försök till en indelning af jordytan efter klimatiska grunder. (Geografiska föreningen i Finland. Meddelanden, 1892-1893. Bd. 1, p. 140-201) **Title tr.:** The earth's climatic regions; an attempt at a new division of the earth surface into climatic areas.

Contains a classification into climatic regions and provinces with main characteristics indicated for each. The cold

areas (annual temperature, without altitude reduction: 0° C. or slightly higher) are divided into (a) areas with a cold summer, i. e. mean temperature of warmest month 10° C. or less: (1) Arctic region (p. 157-58); (2) Antarctic region (p. 161-62); (3) Tibetan region; (b) areas with a warm summer; (4) Siberian region (p. 158-60); (5) Hudson Bay region (p. 160-61). Summary in German.

**Copy seen:** DLC.

**22737. HULT, RAGNAR, 1857-1899.** Växtregionerna i Finlands lappmarker. (Terra, (Geografiska föreningen i Finland. Tidskrift) 1897, p. 60-71) **Title tr.:** The plant regions of Finnish Lapland.

**Contains** information on the vegetation regions of the mountains, and (especially trees) of the plateaus; distribution of conifers towards the north; the effect of an assumed drought period in limiting the northward spread of spruce; possible climatic change, etc. Summary in German in Geografiska föreningen i Finland. Meddelanden, 1897-98, pub. 1899. Bd. 4, p. 13-14.

**Copy seen:** DLC.

**22738. HULT, RAGNAR, 1857-1899.** Vedväxternas utbredning i Finland. (Geografiska föreningen i Finland. Meddelanden, 1896. Bd. 3, p. 1-63, tables, fold. map, fold. diagr. at end of vol.) **Title tr.:** The distribution of timber-plants in Finland.

Ninety-three woody plants are classified into five groups according to their distribution. The author's five phytogeographic zones are: "arctic" zone: (1) Enontekis Lappmark in northwesternmost Finland; two "Lapp" zones: (2) Utsjoki and Ivala Lappmark, north of 68° N.; (3) Kemi Lappmark and Kuusamo, 65°40'-68° N.; (4) central Finnish subzone (the northwestern section extending to 67°10' N.) and southern Finnish subzone. 22 species are found everywhere; 23 species are northern forms having their southernmost limits in Finland. Summary in German.

**Copy seen:** DLC.

**22739. HULTÉN, ERIC, 1894-** . Flora of Alaska and Yukon, X. Dicotyledoneae, Campanulatae 2 (Compositae). Supplement, bibliography, general index to the entire flora. Lund, 1950. p. 1483-1902, small sketch maps 1096-1280. (Lund. Universitet. Årsskrift. Ny följd. Avd. 2. Bd. 46, nr. 1)

**Contains** a systematic list of plants no. 1096a-1280, p. 1483-1670, sketch maps,

p. 1671-90; supplement, p. 1691-1772, including additions and corrections, and a list of five new Compositae "described by Porsild in *Canadian field naturalist* 1950, v. 64, p. 43-45. No specimens have been seen and no opinion is therefore expressed on these species"; a classified bibliography, p. 1773-1812; index to the entire flora, p. 1813-1902. This is the last part of a basic work on flora of the area. For pt. I-IX, see *Arctic Bibliography*, No. 7540.

**Copy seen:** DSI-M; MH-Z.

**HULTÉN, ERIK, 1894-** , see also Degelius, G. N. Lichens from S. Alaska. 1937. No. 21385.

**HULTÉN, ERIC, 1894-** , see also Viets, K. V. Meeresmilben von d. Aleuten. 1951. No. 27105.

**22740. HULTING, JOHAN, 1842-** . Lichenes nonnulli Scandinaviae I, V. (Botaniska notiser, 1891, p. 82-85; (V) 1915, p. 61-64) **Title tr.:** Some Scandinavian lichens, I, V.

**Contains** critical notes on 53 Scandinavian lichens (in both parts), including *Alectoria fremontii* (pt. I) and *Lecidea tarandina* (pt. V) native to Lule Lappmark, northern Sweden; pts. II-IV do not include arctic material.

**Copy seen:** DLC; MH-A.

**22741. HURSH, LAWRENCE M.** Human sensitivity to a standardized cold test. (Journal of applied physiology, Feb. 1950. v. 2, no. 8, p. 425-30, fig.)

**Contains** a report on the response of human skin to a standard cold stimulus. The individual variations in response were great, and so were the responses of the same individual within a three-month period. Previous frostbite, sweating tendencies, allergy, nature of skin and home locality were not found to be correlated with cold hypersensitivity, as estimated by the test used. Bibliography (6 items).

**Copy seen:** DLC.

**22742. HURT, WESLEY ROBERT, 1917-** . Artifacts from Shemya, Aleutian Islands. (American antiquity, July 1950. v. 16, p. 68-69, incl. plate)

Twenty-four artifacts from one of the Semichi Islands are figured and described; they represent (with some major differences) types found on nearby Agattu in 1949, but the collection is too small to place it in the Aleut cultural framework more definitely than the "Middle" or

"Early" Aleut culture of P. S. Martin's  
*Indians before Columbus*, 1947, q. v.

**Copy seen:** DLC.

**HURTIG, H.**, see Twinn, C. R., & others.  
Area control of mosquitoes by aircraft  
in sub-arctic Canada. 1950. No. 26866.

**HUSMAN, CHESTER N., 1908-**, see  
Blanton, F. S., & others. Control adult  
mosquitoes Alaska. 1950. No. 20718.

**HUSMAN, CHESTER N., 1908-**, see  
also Blanton, F. S., & others. Control  
Alaskan mosquito adults. 1949. No.  
20719.

**HUSMAN, CHESTER N., 1908-**, see  
Gjullin, C. M., & others. Control black  
fly larvae Alaskan streams. 1949. No.  
21126.

**22743. HUSTICH, ILMARI, 1911-**.  
Finnish Lapland. Text by Ilmari Hu-  
stich, edited by Eino Mäkinen. Helsinki,  
Printed by Ab. Tilgmann Oy., 1951. 32  
p., illus. maps.

Sketch of the development of Lapland  
as a tourist area after construction of a  
motor road "the Arctic Highway" from  
Rovaniemi to Iinahamari on the arctic  
coast in 1929; the Winter War 1939-40;  
the German occupation 1941-45, eco-  
nomic boom, and later devastation; post-  
war reconstruction of dwellings, roads,  
power station; economic activities in the  
region: reindeer herding, tourist trade,  
wood industry, gold mining, land culti-  
vation.

**Copy seen:** CaMAI.

**22744. HUSTICH, ILMARI, 1911-**.  
Forest-botanical notes from Knob Lake  
area in the interior of Labrador Peninsula.  
(Canada. National Museum. Bulletin  
123, its Annual report for 1949-50, pub.  
1951, p. 166-217, illus., maps, diagrs.)

Contains results of studies made during  
Aug.-Sept. 1948 and supported by the  
National Museum and the Arctic Insti-  
tute of North America. The area  
(around 55° N. 67° W.) lies on the  
northern border of the central watershed  
region of the Labrador interior, situated  
between the taiga proper and forest-  
tundra. The physiography, flora and  
vegetation of the area are characterized,  
the great variation in the latter due to  
topography, stressed and illustrated, tree  
species noted in detail and forest habitats  
(author's main study) analyzed and tabu-  
lated on the basis of 26 sample plots.  
Forest reproduction is discussed, the  
quantity of seedlings noted as satisfactory

in the main but growth retarded by such  
unfavorable factors as poor soil, snow-  
damage, wind exposure, etc. Brief notes  
are given on mountain, bay and lake  
vegetation. A catalog of about 225 vas-  
cular plants is appended (p. 201-216)  
with notes on habitat, locality and date  
collected. Bibliography (33 items).

**Copy seen:** CaMAI; DLC.

**22745. HUSTICH, ILMARI, 1911-**.  
Lapland, das Märchenland des hohen  
Nordens. Zweite Auflage. Touristenverein  
in Finnland, 1943. 111 p., illus., sketch  
maps, fold. map. **Title tr.:** Lapland,  
the storied land of the far North. Second  
edition.

Informative handbook for visitors or  
general readers, with chapters on the  
landscape, rivers and boating, the moun-  
tain country, climate, plant and animal  
life, reindeer; the people, their political  
and social history, the winter war of  
1939-40; Petsamo, its history, surround-  
ings, social and economic life; the Lapps;  
towns and settlements in Lapland,  
domestic life, etc.

**Copy seen:** DLC.

**22746. HUSTICH, ILMARI, 1911-**.  
Ljustiden i norra Finland. (Terra, 1944.  
56, p. 73-80, tables) **Title tr.:** The  
period in daylight in northern Finland.

Contains discussion and tabulated data  
on length of day in northernmost (70°  
N.) and southernmost (60° N.) Finland,  
length of actual light time (days of 24-  
hour sunlight) in relation to effect of the  
continuous light during the summer  
months on the growth of plants in Lap-  
land; the radiation at Oulu 65° N. lat.  
and in Sodankylä 67°22' N. lat.; the  
differences in quality, aroma, taste, and  
superassimilation of plants in northern  
as compared with those grown in southern  
Finland. Bibliography (15 items). Sum-  
mary in English.

**Copy seen:** DLC.

**22747. HUSTICH, ILMARI, 1911-**.  
Newfoundland-Labrador. (Terra, 1937.  
49:4, p. 186-98, illus.) **Title tr.:** New-  
foundland-Labrador.

Description of the region (along the  
northeast coast and administratively  
part of Newfoundland, as distinct from  
the Quebec-Labrador along the southeast  
(St. Lawrence) coast) on the basis of  
the author's experience in 1937 with the  
Finnish expedition under Tanner; its  
area and population of about 4000,  
comprised of Eskimos, Naskopi and  
Montagnais Indians and white fishermen.  
The forest growth, flora, swamps and

their similarities to those of Fennoscandia are noted, as well as the arctic belt along the coast resulting from influence of the cold Labrador current. Author sketches the Moravian Mission, Hudson's Bay Co. and the Grenfell Mission especially as they affect the development of Labrador. Summary in English.

*Copy seen:* DLC.

**22748. HUSTICH, ILMARI, 1911-** . Notes on the coniferous forest and tree limit on the east coast of Newfoundland-Labrador. Helsinki, 1939. 77 p., 16 illus., map, diagrs. (Acta geographica, 7:1)

Based on the author's observations made in June-Aug. during the Finnish Labrador Expedition, 1937 under leadership of Väinö Tanner. The observations were made principally at Sandwich Bay, Hamilton Inlet, Pottles Bay, and Makkovik missionary station, and on brief landings along the coast as far north as Hebron (58°12' N.). Following notes on the observed coniferous forest limit, is a discussion and tabular data (based on the literature) on climate; descriptions of topography and soil (with notes on the bogs and their vegetation); comparison of the coniferous forest of the east Labrador coast with that of northern Europe, and remarks on the connection between climate and forest line; effects of forest fires; data on former forests and on the economic importance of the coast forest. Bibliography (40 items).

*Copy seen:* DLC.

**22749. HUSTICH, ILMARI, 1911-** . Notes on the forests on the east coast of Hudson Bay and James Bay. Helsingfors, 1950. 83 p., illus. (incl. sketch map). (Acta geographica, v. 11, no. 1.)

These notes were made during a canoe journey from Rupert House to Great Whale River, July 7-Aug. 26, 1947, on the Canadian-Finnish Hudson Bay East Coast Expedition, sponsored by the Canadian National Museum and the Arctic Institute of North America. They form an ecologic study of the vascular plants, trees and shrubs of the coast area, and the forest types, reproduction, and growth; and give information on the geographic features of the coast and of the Great Whale River area in particular. Bibliography (36 items).

*Copy seen:* DGS.

**22750. HUSTICH, ILMARI, 1911-** , and B. PETTERSSON. Notes on the

vascular plants of the east coast of Newfoundland-Labrador. I. Preliminary list of plants. II. Notes by I. Hustich on the localities where the plant material was collected in 1937. (Societas pro fauna et flora fennica, Helsingfors. Memoranda, May 8, Dec. 4, 1943. v. 19, p. 192-200; v. 20, p. 24-46, map)

Contains in part 1 list of about 450 plant species (mostly determined by Dr. Pettersson) with indication of localities in which specimens were collected by the three-man Finnish Labrador Expedition of 1937; also a list of the 51 collecting localities along the Labrador coast from Battle Harbour (about 52° N. lat.) northward to Hebron (about 58°12' N. lat.). In pt. 2 Dr. Hustich gives an introductory account of the forest limit along this coast: the vertical and horizontal areas of bush, brushwood and timber forest; and notes climatic and vegetation resemblance with the northern Europe west of the Urals, particularly the Pechora region. Then follow notes on the character of the 51 collecting localities: their situation in relation to coast line (classified as: outlying rocks, coastline, arctic coast, the inland), and forest limits, with mention of the plant species found in each. Bibliography (about 20 items). *Copy seen:* DLC.

**22751. HUSTICH, ILMARI, 1911-** . Om det nordfinska jordbrukets utveckling och årliga produktionsvariationer. Helsinki, 1945. 102 p., 7 maps, 5 diagrs. (Fennia. v. 69, no. 2) *Title tr.:* On the agricultural development in northern Finland, and the yearly variations in production.

Contains a synthesis of biological and geographical information showing the variations in production in a region where these variations are much more important than in the southern part of the country. "Northern Finland" in this paper is the country as it was before 1944. During the last year of the war, the work of scores of years was ruined. The history of agriculture in the region is described in two sections: before and after the hunger years of the 1860's. Chapter 2 gives the history of the extension of cultivated plants in northern Finland, and chap. 3 treats the areal distribution of agricultural land in Lapland. The variations in total agricultural production are discussed for the northern provinces, these variations influenced by many factors other than the climatic

(e. g. economic factors). Chap. 3 is devoted to the *relative* variations of the cereal crops; this gives a more exact measurement of the climatic influence.

**Copy seen:** CaMAI.

**22752. HUSTICH, ILMARI, 1911-** . On the correlation between growth and the recent climatic fluctuation. (*In*: *Glaciers and climate*, pub. in *Geografiska annaler*, 1949. Årg. 31, Häft. 1-4, p. 90-105, 12 figs., 3 tables)

"A general discussion of the effect of changing climate on tree growth and crop yield, especially in North Finland. Variability increases northward. Effect of temperature on growth increases polewards, that of precipitation increases equatorward. Trends in growth of cereals, tree growth, lake levels, etc., in recent years show that conditions have become more favorable in high north latitudes, less so in lower latitudes; there is direct opposition between growth of pine in Lapland and Oregon."—*Meteorological abstracts and bibliography*, July 1950. v. 1, no. 7, p. 440. Includes bibliography (55 items).

**Copy seen:** DLC; MH-BH.

**22753. HUSTICH, ILMARI, 1911-** . *Pflanzengeographische Studien im Gebiet der niederen Fjelden im westlichen finnischen Lappland, I. Über die Beziehung der Flora zu Standort und Höhenlage in der alpinen Region, sowie über das Problem "Fjeldpflanzen in der Nadelwaldregion."* Helsingfors, 1937. 156 p., including 10 illus. on plates, 3 maps, tables. (*Acta botanica fennica*, no. 19) **Title tr.:** Phytogeographic studies in the area of the lower fjelds in the western Finnish Lapland, I. The relation of the flora to the location and altitude in the alpine region, and the problem "fjeld-plants in the region of coniferous forests."

**Contains** description of the area (roughly 67°30'-69° N. 23°-25° E.), its landforms, geologic structure, climate and fauna; followed by characterization of 17 fjelds within the area. Succeeding chapters deal with the forest limit; the problem of the division of the fjeld region (on basis of vegetation, etc.); its local conditions; relation between location and composition of the stand; levels of different plants and an outline of a classification of the flora (some 200 species) according to its vertical distribution, etc. Finally is an extensive discussion of the significance of fjeld plants occurring in

the coniferous forest region: as indicator of climatic change, etc. **Bibliography** (about 150 items). **Copy seen:** DLC.

**22754. HUSTICH, ILMARI, 1911-** . *Pflanzengeographische Studien im Gebiet der niederen Fjelden im westlichen finnischen Lappland, II. Über die horizontale Verbreitung der alpinen und alpiken Arten sowie einige Angaben über die winterlichen Naturverhältnisse auf den Fjelden; Artenverzeichnis.* Helsingfors, 1940. 80 p., illus., tables. (*Acta botanica fennica*, 27) **Title tr.:** Phytogeographic studies in the area of the lower fjelds in western Finnish Lapland, II. On the horizontal distribution of the alpine and alpic species, with some notes on the natural winter conditions on the fjelds; species list.

**Contains** account of the horizontal distribution of alpine and alpic species in the area studied; the flora of the nearby fjelds; atlantic traits in the flora of the fjelds; conditions in the winter; list of species; mosses of Pallastunturi and Ounastunturi. **Bibliography** (about 80 items). **Copy seen:** DLC.

**22755. HUSTICH, ILMARI, 1911-** , *editor.* The recent climatic fluctuation in Finland and its consequence; a symposium. Helsinki, 1952. 128 p. illus., sketch maps. (*Fennia*, no. 75) **Other authors:** J. Keränen, R. Jurva, V. Erkamo, O. Kalela, P. Mikola, L. Siivonen, and E. Holme.

**Contains** eight papers, with discussion, presented at meetings of the Geographical Society of Finland, May and Oct. 1951, concerning the effects of amelioration in climate during the past century, on ice conditions in the Baltic Sea, and (from the biogeographic point of view) on birds, mammals, insects, forests, fishing and hunting, and agriculture. The papers are mainly concerned with research on the southern half of Finland. **Bibliography** (154 items). **Copy seen:** DGS.

**22756. HUSTICH, ILMARI, 1911-** . The Scotch pine in northernmost Finland and its dependence on the climate in the last decades. (Helsingfors, 1948) 75 p., 14 figs., 6 maps, 7 diagrs., 27 tables. (*Acta botanica fennica*, no. 42)

**Following** a discussion (p. 5-27) on the northern forest limit as distinct from tree line "a large amount of detailed measurements made over 10 to 60 years on the reproduction, growth, length of needles, variations in the forest limit,

the flowering, fruit formation, etc., of forests in northern Finland is analyzed and correlated with climatic factors. The Scotch pine is especially sensitive in the Arctic to temperature changes from year to year, although in arid regions it is more sensitive to rainfall anomalies. Changes in snow cover, wind, frozen ground, forest fires and human activity complicate the analysis."—*Meteorological abstracts and bibliography*, June 1951. v. 2, no. 6, p. 447. Includes bibliography (about 90 items).

**Copy seen:** DA; DLC.

**HUSTICH, ILMARI, 1911-**, *see also* Brier, G. W. N. Hemisphere pressure & vegetation growth. 1948. No. 20895.

**HUSTICH, VÄINÖ ILMARI, *see* HUSTICH, ILMARI, 1911-**

**22757. HUTCHINS, P. F.** British scientific work in Spitsbergen. (Endeavour, Jan. 1952. v. 11, no. 41, p. 17-21, col. plate)

"British scientific expeditions to Spitsbergen from 1773 to the present are reviewed and their objectives and brief histories given. Ecological studies are mentioned in connection with the 1921, 1923 and 1924 expeditions from Oxford, organized by George Binney. Several expeditions were concerned with glaciological studies. A map of Spitsbergen and color photos showing geological aspects are presented."—*Meteorological abstracts and bibliography*, Aug. 1952. v. 3, no. 8, p. 800. Bibliography (11 items).

**Copy seen:** DGS; DLC.

**22758. HUTCHISON, DALE H.** A preliminary survey of ice fog in the Alaskan area. Final Report. SRI Project no. 473, Stamford Research Institute, (Contract No. AF19[122]-634) Nov. 1, 1951. 37 p. incl. tables, graphs, appendices A-H.

"Available data on ice fogs in the interior of Alaska have been analyzed for the purpose of establishing the extent and reliability of the data. Preliminary conclusions drawn from these data are presented. Three conditions appear necessary to the formation of ice fogs: a temperature of  $-30^{\circ}$  F or lower, a wind speed of 3 m.p.h. or less, and an adequate supply of water vapor in the air. The available evidence indicates that ice fogs at Ladd Air Force Base and at Eielson Air Force Base result from the addition of water vapor to the air

by the combustion of various fuels when other conditions are favorable. The incidence of ice fogs at Ladd AFB shows no increase from 1946-1951, whereas ice fogs definitely increased in frequency at Eielson AFB. This condition probably reflects the increased activity at Eielson during that period." (Author's abstract).

**Copy seen:** DWB.

**22759. HUTCHISON, R. D.** Operation Magnetic, 1950. (Arctic circular, Dec. 1950. v. 3, p. 72-77)

Continuation of a Dominion Observatory project begun in 1947, the Royal Canadian Air Force transporting the party by amphibious plane. Discussion of compass variation in the Canadian Arctic with some results from a line of stations established in 1950, westward from Hudson Bay just north of the 60th parallel, also from stations on Southampton Island, the south coast of Baffin Island, and at Churchill (for which point are also given magnetic values (1725-1950).

**Copy seen:** CaMAI.

**22760. HUTH, GEORG.** Die tungusische Volksliteratur und ihre ethnologische Ausbeute. (Akademifä nauk SSSR. Izvestiä, 1901. ser. 5, t. 15, no. 3, p. 293-316) **Title tr.:** The Tungusic folk literature and its ethnological value.

Contains texts (in the vernacular with German translation and commentary) of four songs, and four shamanistic charm formulas against diseases, as recorded in 1897 from an old Yenisey-Tungus man, native of the village of Kamenskoye on the Angara River.

**Copy seen:** DLC.

**22761. HUUS, JOHAN, 1892-** Ascidiologische Notizen, I. Zur Verbreitung, Morphologie und Biologie von *Ascidia callosa* Stps. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1930, pub. 1931, nr. 5, p. 1-11, illus.) **Title tr.:** Notes on ascidians I. On distribution, morphology and biology of *Ascidia callosa* Stps.

Contains a morphological and biological study of a sea squirt, *Ascidia callosa*, found on the western coast of Norway, including Tromsø Bay and Nord Kap waters, and probably reaching the Svalbard region. Dimensions are given also comparison with another species *Ascidia prunum*. For continuation see the author's *Ascidiologische Notizen II*, 1936.

**Copy seen:** MH-Z.

**22762. HUUS, JOHAN, 1892-** . Ascidiologische Notizen, II. Über den Fund von *Styela atlantica* (Van Name) an der norwegischen Westküste, mit Bemerkungen über die amphiatlantische Verbreitung einiger Ascidien. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1936, nr. 5, p. 1-18, illus.) **Title tr.:** Notes on ascidians II. On the find of *Styela atlantica* (Van Name) on the western coast of Norway with remarks on amphiatlantic distribution of some ascidians.

Contains a record of the find of this sea squirt on the Norwegian coast, and a discussion of the distribution of some ascidians on both sides of the Atlantic including *Cnemidocarpa rhizopus*, native to Kola Peninsula, Novaya Zemlya, Kara Sea, Svalbard, Greenland and Baffin Island waters. This is a continuation of the item above.

**Copy seen:** MH-Z.

**22763. HUUS, JOHAN, 1892-** . Darinparasiten des norwegischen Moorschneehuhns (*Lagopus lagopus* L.) Nematoden und Cestoden. (Bergen, Norway. Aarbok; naturvidenskabelig rekke, 1928, no. 3, p. 1-49, illus.) **Title tr.:** Intestinal parasites of the Norwegian willow ptarmigan (*Lagopus lagopus* L.) Cestoda and Nematoda.

Contains data on morphology, systematics and geographic distribution of four species of intestinal worms (two nematodes and two cestodes) infecting willow ptarmigan of Norway. The 386 specimens examined included some birds from Karasjok and Lofoten Islands.

**Copy seen:** MH-Z.

**HUXLEY, HENRY MINOR, 1880-** , see Russell, F., & H. M. Huxley. Comparative study physical structure Labrador Eskimos. 1899. No. 25720.

**HVATUM, ARTHUR RAYMOND, 1914-** , see Wallace, M. M., & others. Contribution to biology of king crab. 1949. No. 27237.

**22764. HYLAND, W. L., and G. M. REECE.** Water supplies for army bases in Alaska. (New England Water Works Association. Journal, Mar. 1951. v. 65, p. 1-16, incl. illus., tables, diagr.)

"A ground-water supply in a permafrost area and a surface supply in an area with moderate climate are described. The ground-water supply is obtained below or between permafrost layers. Water is distributed by pipe lines carried

in utilidoros or boxes which carry all utility piping, including sewer and steam pipes. Fe and Mn are best removed from ground water with Cl. Methods of treatment are described."—SIPRE.

**Copy seen:** DLC.

**22765. HYLANDER, NILS, 1904-** . Die Grassameneinkömmlinge schwedischer Parke mit besonderer Berücksichtigung der *Hieracia silvaticiformia*. Uppsala, Lundquistka bokhand., 1943. xiii, 432 p., plates 1-24, text maps. (Symbolae botanicae upsalienses. v. 7, no. 1) **Title tr.:** Immigrant grasses in Swedish parks with special reference to *Hieracia silvaticiformia*.

**Contents tr.:** 1 (p. 1-23) Parks of Swedish villas and estates in the second half of the 19th century and their immigrant grasses (with especial reference to their origin); 2. Origin groups and their individual species. A (p. 24-68) Group 1, the French group (*Bromus erectus* group); B (p. 68-77) Group 2, species of uncertain origin; C (p. 78-287) Group 3, the German group (*Poa chaikii* group); D (p. 288-93) Group 4, the *Festuca capillata* group. Appendix 1 (p. 295-327) Localities of the more commonly found species of groups 1-4; Appendix 2 (p. 330-87) Data on localities in the tables I-II. Literature cited (about 450 items), p. 388-402. Tables I-II, p. 403-432.

Includes (p. 106-274) descriptions of 143 adventive species of composite genus *Hieracium* (group *Hieracia silvaticiformia*) almost all new species, with critical and descriptive notes on 73 other exotic plants growing in Swedish parks; includes *Luzula luzuloides* and *Phyteuma spicata* ssp. *ochroleuca*, native to Swedish Lapland (Asele, Pite and Torne Lappmark).

**Copy seen:** DA; MH-A.

**22766. HYNDMAN, OLAN, R., and J. WOLKIN.** The autonomic mechanism of heat conservation and dissipation. 2. Effects of cooling the body: a comparison of peripheral and central vasomotor responses to cold. (American heart journal, Jan. 1942. v. 23, p. 43-58, plate)

Contains a study on patients subjected to, mostly unilateral, operations on the sympathetic nervous system and fully exposed to cold air. Skin and mouth temperature, pulse rate and blood pressure, pilomotor activity, shivering and appearance of skin were followed. In-

fluence of sympathectomy on the response of arterials to cold and on pain caused by cold; influence of the sympathetics on capillary dilatation of the hand of the cooled subjects, and the dual mechanism of capillary responses were studied and analyzed. Bibliography (9 items). Part 1 of this study dealt with effects of heating the body.

**Copy seen:** DLC.

**22767. HYYPPÄ, ESA.** Über die spät-quartäre Entwicklung Nordfinlands mit Ergänzungen zur Kenntniss des spät-glazialen Klimas. Vorläufige Mitteilung. (Finland. Geologiska Kommission. Bulletin, 1936. no. 115, p. 401-465, 8 plates (3 fold. maps, 4 illus.), diags.) **Title tr.:** On the late Quaternary development of northern Finland with supplements to the knowledge of the late glacial climate. A preliminary report.

Report deals with early beaches of the area and their positions; stratigraphy of the bogs. Includes remarks on pollen chronology; synchronous levels; and the late-glacial development of forests and climate with discussion of the pollen flora. Bibliography (55 items).

**Copy seen:** DLC.

**I. K., see K., I.**

**22768. ĪĀGODOVSKIĪ, KONSTANTIN PAVLOVICH.** V stranē polunochnogo solntsa: vospominaniā o Murmanskoi ēkspeditsii. S.-Peterburg, Zhizn' i znanie, 1914. xii, 312 p., illus., ports, maps. (Biblioteka dlā ūnoshestva, kn. 13) **Title tr.:** In the land of the midnight sun; memoirs from the Murmansk Expedition.

Well-documented memoirs of the expedition (1898-1908) organized and led by the marine biologist, N. M. Knipovich till 1902, then by L. L. Breitfus. The purpose of this expedition, on which the author was one of the scientific personnel, was biological and oceanographic investigations to further fishing and sealing in Barents Sea. He describes the itinerary to Yekaterinskaya Gavan in Kola Bay where the expedition's station Aleksandrovsk was located; the research vessel *Andreĭ Perozannyĭ*; the harbor, its environs and its marine life; commercial sea fishes; local fisheries; outline of the hydrographic work; animal and plant life of the sea bottom; plankton investigations; whales and whaling; birds; work at the shore-laboratory; notes on reindeer; arctic ice, icebergs and ice conditions;

work on Novaya Zemlya; its inhabitants; animals and plants; studies on Cheskaya Guba; whaling, sealing and hunting in that region; return itinerary.

**Copy seen:** DLC.

**ĪĀGODOVSKIĪ, KONSTANTIN PAVLOVICH, see also Knipovich, N. M.** Ēksped. dlā izslēd. u beregov Murmana. 1902-04. No. 23315.

**22769. ĪĀKHONTOV, V. D.** Redkie dlā Kolmy ptitsy. (Priroda, Oct. 1952. v. 41, no. 10, p. 122) **Title tr.:** Birds rare in the Kolyma River region.

Contains a report on occurrence, in 1950-51, of a species of the diving ducks, *Nyroca ferina*, and the mallard, *Anas platyrhynchos*, in the region of Kolyma River in northeastern Siberia. Both species are very rare in that region.

**Copy seen:** DLC; MH.

**22770. ĪĀKOBĪĪ, ARKADIĪ IVANOVICH.** Poezdka v Kaninskui tundu letom 1890 goda. (Kazan'. Universitet. Obshchestvo estestvoispytatelei. Trudy, 1891. t. 23, vyp. 1, p. 1-79, fold. map) **Title tr.:** A journey to the Kanin tundra in the summer of 1890.

Contains a general account of the author's trip to Kanin Peninsula in Arkhangel'sk province chiefly to study the social and economic condition of the Samoyeds living in that region; with data on the physical geography of peninsula (especially vegetation) and rather brief notes on the Samoyeds and their mode of life; historical notes on reindeer epidemics and on an attempt at vaccination for anthrax made by the veterinarian, I. M. Sadoyskiĭ (p. 49-57); data on health conditions of the Samoyeds and medical service in the region (p. 58-63); and its mapping (p. 63-67). Author concludes (p. 68-75) offering a summary on the climatic zones, water features, vegetation and forests, reindeer and its diseases, veterinary and medical aid; plight, education and russification of the Samoyeds; maps, roads, etc. Map of the Kanin Peninsula and a list of rivers, rivulets and springs compiled by the forer of the region, D. Z. Trofimenko, completes the paper.

**Copy seen:** DLC; MH-Z.

**22771. ĪĀKOBSON, GEORGIĪ GEORGIEVICH, 1871-1926.** Coleoptera palaearctica nova et parum cognita, I. (Akademiā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1899. t. 4, no. 1, p.

39-45) **Title tr.:** New or little known palaearctic Coleoptera, I.

Contains descriptions of new or little known palaearctic coleoptera, including *Plectrura spinicauda*, native to Sitka (i. e. Baranof) Island, Alaska.

**Copy seen:** DLC; MH-Z.

**22772. ĬAKOBSON, GEORGIĬ GEORGIEVICH, 1871-1926.** Interesnyĭa mĕstonakhzhdeniĭa nĕkotorykh zhukov, I-II. (Akademiĭa nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1900. T. 5, p. i-vi; (II) 1903, T. 8, p. xxii-xxiv)

**Title tr.:** Localities of beetles presenting a certain interest, I-II.

Contains a list of 52 beetles, mostly from the collections of the Zoological Museum of the Academy of Sciences, with new or little known localities; includes *Agabus serricornis* found on Bol'shaya Topa Island in the White Sea and *Carabus catenulatus*, Kola Peninsula (pt. I) and *Thanatophilus baicalicus* (= *T. sagax*) from Alaska and eastern Siberia (pt. II).

**Copy seen:** DLC; MH-Z.

**22773. ĬAKOBSON, GEORGIĬ GEORGIEVICH, 1871-1926.** Zamietka o vodnoi faunĕ ostrova "Bol'shaya Topa" na Biĕlom morĕ. (Russkoe ĕntomologicheskoe obshchestvo, St. Petersburg. Trudy (Horae), 1893-94, pub. 1894. t. 28, p. 279-85, illus.) **Title tr.:** Notice on aquatic fauna of "Bol'shaya Topa" Island on the White Sea.

Contains a general description of the fauna of salt-water and fresh-water pools (with particular reference to some aquatic beetles and bugs) on a rocky islet Bol'shoy Topy (64°59'N. 35°28'E.) near Solovetskĭe Island in the White Sea, visited by the author in the summer of 1893.

**Copy seen:** MH-Z.

**22774. ĬAKOVLEV, ALEKSANDR IVANOVICH.** Diagnoses Tenthredinidarum novarum ex Russia Europaea, Siberia, Asia Media et confinium. (Russkoe ĕntomologicheskoe obshchestvo, St. Petersburg. Trudy (Horae), 1891-92, pub. 1892. t. 26, p. 1-62) **Title tr.:** Diagnoses of new Tenthredinidae from European Russia, Siberia, Central Asia and adjoining regions.

Contains a synopsis of 72 new species of sawflies from European and Asiatic Russia and their Latin diagnoses, with some notes in Russian; includes *Amau-*

*ronematus glacialis* n. sp. captured by Grinevetskii on Novaya Zemlya.

**Copy seen:** MH-A.

**22775. ĬAKOVLEV, NIKOLAIĬ NIKOLAEVICH.** Deux nouveaux ĕchinodermes des dĕpĕts permĭens du Timan. (Akademiĭa nauk SSSR. Comptes rendus (Doklady), 1941. nouv. ser., v. 32, no. 1, p. 102-104, illus.) **Title tr.:** Two new echinoderms from the Permian deposits of Timan.

"Describes the blastoid *Codaster barkhatovae* n. sp. of a genus found for the first time in the Permian, and the crinoid *Stachyoerinus timanicus* n. sp. of which the genus is found for the first time in Russia. Both were found in Permian deposits on the banks of the Sula River [65° N. 50° E.] in Timan."—Geological Society of America, *Bibliography and index of geology*, 1941-42. v. 9, p. 327.

**Copy seen:** DLC.

**22776. ĬAKOVLEV, NIKOLAIĬ NIKOLAEVICH.** Neue Funde von Trias-Sauriern auf Spitzbergen. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1902. Ser. 2, chast' 40, p. 179-202, illus., fold. plate) **Title tr.:** New finds of Triassic Sauria on Spitsbergen.

Full description of a new genus and species *Ekbainacanthus tchernyshevii* and discussion of *Schasasaurus polaris*, based on fossil reptile remains found by F. N. Chernyshev on the Russo-Swedish Expedition to Measure an Arc of Meridian 1899-1901, in the regions of Ice Fiord, Bell Sound, Stor Fiord and Edlund Mt., southern West Spitsbergen.

**Copy seen:** DGS.

**22777. ĬAKOVLEV, NIKOLAIĬ NIKOLAEVICH.** Novye permskie morskĭe lilii iz Severnogo Timana. (Akademiĭa nauk SSSR. Izvestiĭa. Otdelenie biologicheskikh nauk. Seriiĭ biologicheskaiĭa, 1948, no. 1, p. 118-22, illus.) **Title tr.:** New Permian marine crinoids from northern Timan.

Contains Latin diagnoses of *Cadocrinus timanicus* and *Protencrinus lobatus* n. spp. from the lower Permian deposits in the valley of Sula River, northern Timan ridge, Arkhangel'sk province, with critical notes and dimensions.

**Copy seen:** MH.

**ĬAKOVLEV, NIKOLAIĬ NIKOLAEVICH,** see also Chernyshev, F. N., & N. N.

Īakovlev. Kalksteina fauna Cap Grebeni. 1899. No. 21178.

**22778. ĪAKOVLEV, S. A.** Rukovodīa-shelie valuny, moreny i granitsy rasprostraneniā novozemel'skogo oledeneniā na russkoj ravnine. (Akademiā nauk SSSR. Komissia po izucheniiu chetvertiehnogo perioda. Brūleten', 1939. no. 5, p. 21-44) **Title tr.:** Dominating boulders, moraines and limits of extension of the Novaya Zemlya glaciation on the Russian plain.

Description of boulders dispersed over northern European Russia from the White Sea to the foothills of the Urals, and discussion of the distinction of Novaya Zemlya moraines from those of the Scandinavian glaciation center; remarks on the stratigraphy of the former moraines including the regions of Cheshskaya Bay and the Malaya- and Bol'shezemelskaya Tundras. Bibliography (49 items). Summary in English.

**Copy seen:** DGS.

**22779. ĪAKOVLEVA, A. M.** Pantŕyrnye mollūski morel SSSR (Loricata). Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1952. 107 p. front., illus. (53 figs.), plates 1-10. (In: Akademiā nauk SSSR. Opred. po faune SSSR. no. 45) **Title tr.:** Chitons (Loricata) of the seas of the U.S.S.R.

Contains in the general part, a systematic index to marine species of the class Loricata (p. 5-6); followed by an introduction (p. 7-43) giving a brief characterization and morphological and anatomical sketch of Loricata, biology, phylogeny, geographic distribution, and methodics of determination; also a bibliography (107 items). In the systematic part (p. 48-104) are given keys to the orders, families, genera and species, and descriptions of 42 species of chitons (one family, two genera and 11 species are new to science), with synonyms, literature references, critical notes and data on ecology and distribution. Index of Latin names is appended p. 105-107. Many species native to northern waters of the U.S.S.R. and adjoining seas are included in this work (see table 9 on p. 38-39).

**Copy seen:** DLC.

**22780. ĪAKUSHKOV, INNOKENTĪ.** Khozīaistvennāa zhizn' osedlykh lamutov. (Taiga i tundra, 1928. no. 1, p. 19-22) **Title tr.:** The economic life of the settled Lamuts.

Contains description of hunting, sealing and fishing of this Tungus group, kinds of animals and fishes, the nets and boats, the food, prices, etc. The author is a Lamut.

**Copy seen:** DSL.

**22781. ĪAKUTIĀ.** Sostavili K. A. Bīalefskiĭ, S. S. Krivtsov, Ė. G. Kul'man, M. P. Potemkin, I. N. Khibarin, A. A. Īakovlev. Moskva, Moskovskii rabochii, 1929. 116 p. illus., maps. (Nash rabochii) **Title tr.:** Yakutia. Compiled by K. A. Bīalefskiĭ, S. S. Krivtsov, Ė. G. Kul'man, M. P. Potemkin, I. N. Khibarin, A. A. Īakovlev.

An account of the economy of Yakutia: its productive factors, agriculture and animal breeding, forestry, hunting and fishing, mining, culture, administrative structure.

**Copy seen:** DLC.

**22782. ĪĀNIKOV, G. V.** Velikaā Severnāa ēkspeditsiā [pod. red. N. N. Zubova] Moskva, Gos. izd-vo geogr. lit-ry, 1949. 162, [2] p., maps. **Title tr.:** The Great Northern Expedition [under editorship of N. N. Zubov].

Account of the second phase (1733-43) of the Great Northern Expedition (1725-43). This phase only, the author considers to merit the title of "Great", on the basis of its scope and exploits. The consecutive areas explored are dealt with in separate chapters, the subtitles giving the name(s) of the leader(s) of parties in the respective areas: (chap. 1) Introduction: history of Russian polar exploits. (2) Organization of the expedition. (3) Arkhangel'sk-Ob' (Murav'ev and Pavlov, Malygin and Skuratov, Skuratov and Golovin). (4) Ob'-Yenisey (Ovtsyn, Ovtsyn and Koshelev). (5) Eastward of the Yenisey (Minin and Steregov). (6) Lena-Yenisey (Pronehishchev, Khariton Laptev and Chelūskin). (7) Eastward of the Lena (Lasinius, Dmitriĭ Laptev). (8) The Board of Admirals. (9) Achievements of the Great Northern Expedition. (10) Biographical sketches of the members of the expedition. (11) Conclusion. Bibliography (34 items).

**Copy seen:** DLC.

**ĪĀNKOVSKIĬ, V. D.,** see Sakharov, M. I., & V. D. Īankovskiĭ. O vozmozhnosti primeneniā antitrombina. 1946. No. 25782.

**22783. ĪĀNUSHEVICH, D. ĪA.** Treska Kandalakshskogo zaliva Belogo morāa (biologiā i promysel). (Karelo-Mur-

manskiĭ kraĭ, 1933, no. 5-6, p. 61-64, illus.) **Title tr.:** The cod fish of Kandalaksha Bay, White Sea (biology and fishery).

Contains an account of the two local forms of White Sea cod, their food, and growth, both seasonal and general. Fishing grounds and methods, yields and profits are also discussed.

**Copied seen:** DLC.

**22784. ĬASHNOV, V. A.** Phyllopoda Novoi Zemli. (Moskovskoe obshchestvo ispytatelei prirody. Būlleten', 1940. Otdel biol. Novaiā seriā. T. 49, vyp. 1, p. 71-78, illus., text map) **Title tr.:** Phyllopoda of Novaya Zemlya.

Contains a list of five crustaceans of division Phyllopoda, collected in freshwater and saline water basins of Novaya Zemlya, including Russian and English descriptions of *Branchinella arctica* n. sp., critical notes and data on local distribution (text map); based on collections of the Institute for the Study of the North, 1923-27. Summary in English.

**Copied seen:** DLC; MH-A.

**22785. ĬASHNOV, V. A.** Rasprostraneniye avtokhtonnoi pelagicheskoi fauny Arktiki. (Moskovskoe obshchestvo ispytatelei prirody. Būlleten', 1946. Otdel biol. Novaiā seriā t. 51, vyp. 6, p. 41-50, text maps) **Title tr.:** The distribution of the autochthon pelagic fauna of the arctic region.

Contains an investigation of zooplankton near the Siberian coast from Novaya Zemlya to Bering Strait, based on the study of geographic distribution of six typical species (Hydromedusae and Copepoda) of the complex of brackish waters with reduced salinity, consisting of autochthons of the arctic region. Bibliography (24 items). Summary in English.

**Copied seen:** DLC; MH-A.

**ICHAC, MARCEL**, see Victor, P. Ė. Groenland 1948-1949. 1951. No. 27102.

**22786. ICKES, HAROLD LeCLAIR**, 1874-1952. Alaska's natives need help. (New republic, July 24, 1950. v. 123, no. 4, p. 17)

Remarks attacking the amendment to the Alaska Statehood Bill, which "will assure that no more Indian reservations shall be set up in Alaska until the people of the Territory have written a constitution and Congress has passed upon it."—H. L. Ickes.

**Copied seen:** DLC.

**22787. IDEL'SON, M.** Pometka ryb v Barentsovom more za 1930-1932 gg. (Karelo-Murmanskiĭ kraĭ 1933. v. 11, no. 7-8, p. 47-52, illus., map) **Title tr.:** Tagging of fishes in the Barents Sea during 1930-1932.

Contains an introductory account of the aims and value of fish-tagging, followed by a summary of such work done earlier in this area. The methods, scope and species marked in the present study are outlined. On the basis of returned tagged specimens, the author offers a reconstruction of their migration routes, those of cod in particular.

**Copied seen:** DLC.

**22788. IDRAC, PIERRE.** Études expérimentales sur le vol à voile au lieu même d'évolution des grands oiseaux voiliers (vautours, albatros, etc.) son application au vol humain, Paris, F.-L. Vivien, 1931. 76 p., 56 illus., incl. diags. **Title tr.:** Experimental studies on the flight of birds, especially the motion of the great soaring birds (vultures, albatross, etc.) its application to human soaring flight. Also published in German: *Experimentelle Untersuchungen über den Segelflug mitten Fluggebiet grosser segelnder Vögel (Geier, Albatros, usw.) ihre Anwendung auf den Segelflug des Menschen.* München u. Berlin, 1932. (81 p., illus., diags.)

A classic study, result of the author's observations over many years, including those made during a voyage to northern Norway and West Spitsbergen in 1913, and two northern trips abroad the *Pourquoi-Pas?* (Greenland Sea) in 1925 and 1926. Author's main conclusion: birds' method of soaring is based on a steady upward wind velocity component, or upon the difference of wind velocity of various layers which the bird utilizes by a steady loop-like turning motion. Includes remarks on the gannet and the petrel in northern waters, the latter's flight represented in fig. 48 and 53.

**Copied seen:** DLC.

**IHRE, JOHAN, 1707-1780**, see Lindahl, E., & J. Öhring. Lexicon lapponicum. 1780. No. 23855.

**22789. IKONNIKOV, NIKOLAI FLEGONTOVICH.** Beitrag zur Kenntnis der Orthopterenfauna Russlands. (Russkoe ěntomologicheskoe obozrenie, 1911. T. 11, no. 1, p. 96-110) **Title tr.:** A contribution to the knowledge of Orthoptera fauna of Russia.

Contains a systematic list of 79 orthopteran insects of Russia with lists of localities, description of one new species and occasional critical notes; includes *Podismopsis poppiusi* from Arkhangel'sk province. **Copy seen:** DSI-M; MH-Z.

**22790. IL'IN B. S., and V. I. PEVZNER.** Novye svedeniia o belomorskikh vidakh treski (*Gadus maris-albi* Derj. i *Gadus callarias hiemalis* Tab.) (In: Sbornik N. M. Knipovicha 1939, p. 316-34) **Title tr.:** New data on the White Sea cod species *Gadus maris-albi* Derj. and *Gadus callarias hiemalis* Tab.

Contains a comparative morphological and biological study of these two cod, with tables of measurements and data on their biology and ecology. Summary in English. **Copy seen:** MH-Z.

**22791. IL'IN, MODEST MIKHAILOVICH, 1889- , and G. V. PIGULEVSKIĬ, editors.** Poleznye rasteniia SSSR, tom I. Moskva-Leningrad, izd-vo Akademii nauk, 1951. 198 p., text maps 1-37. (Akademiia nauk SSSR. Botanicheskii institut) **Title tr.:** Useful plants of the U.S.S.R. v. I.

Contains in the general part (p. 1-41) of this work prepared by a group of about 20 specialists of the Botanical Institute of the Academy of Sciences, an article by M. M. Il'in on the properties and variability of plants from the practical point of view, and a chapter by P. A. Ĭakimov on chemico-technological methods for the utilization of plant raw materials. In the special part (p. 42-173) a guide to useful vascular plants of U.S.S.R. is offered (classes: Filicinae, Equisetinae, Lycopodiinae, Isoetinae and Coniferae) with the following data: name, area, physical and chemical analyses, introduction into culture, useful parts and methods of utilization. A bibliography of Russian and foreign literature to 1948 is given (485 items) p. 174-89, and an index of Latin and Russian names, p. 190-98. This work includes many species native to northern regions of the U.S.S.R.

**Copy seen:** DA; DLC; MH-A.

**22792. IL'IN, MODEST MIKHAILOVICH, 1889- .** Znachenie rabot akademika V. L. Komarova dlia poznaniia istorii flory i rastitel'nosti SSSR. (Akademiia nauk SSSR. Botanicheskii institut. Materialy po istorii flory i rastitel'nosti SSSR, 1946, vyp. 2, p.

9-20) **Title tr.:** The significance of the work of V. L. Komarov for the knowledge of the flora and the vegetation of the U.S.S.R.

Contains a discussion of Komarov's work on flora of Siberia (especially Yakutia) and Kamchatka. Summary in English. **Copy seen:** MH-A.

**22793. IL'INA, A. P.** Stratigraphy and fauna of the Tertiary sediments of the western coast of Kamchatka. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1936. nouv. ser., v. 2 (11), no. 8 (94), p. 325-28)

**Copy seen:** DLC.

**22794. ILLINGWORTH, FRANK, 1908- .** Nomads of Europe's arctic forests. (American forests, Feb. 1952. v. 58, no. 2, p. 24-25, 42, illus.)

Contains an article on the Lapps, their reindeer; their past forced labor in Swedish forests; Lapps as hunters; education; seasonal migrations, etc.

**Copy seen:** DLC.

**22795. ILLINGWORTH, FRANK, 1908- .** North of the Circle. New York, Philosophical Library, 1952. 254 p. 16 plates.

Contains 19 popular articles based on a journalist's travels and reading, which describe natural conditions, adventures and modern but already more or less legendary characters associated with the North. Such themes as permafrost, farming, the ice pack, trapping, Spitsbergen coaling, exploitation of the Russian North, Americanization of Alaska, Yellowknife, pitchblende, circumpolar sealing, the Eskimo, the warming Arctic, war-time weather stations, are treated in an anecdotal style. Reviewed critically in the *Beaver* June 1952. Outfit 283, p. 49; also in *Arctic*, Oct. 1952. v. 5, no. 3, p. 190-91, where K. H. Stone notes numerous errors of fact.

**Copy seen:** DLC.

**22796. ILLINGWORTH, FRANK, 1908- .** Pete of Ice Bay. New York, Coward, McCann, 1951. 247 p., illus. First published by Werner Laurie, London, 1949 (214 p.)

Story of an English lad's experiences living and hunting with Eskimos on Baffin Island. **Copy seen:** DLC.

**22797. ILLINGWORTH, FRANK, 1908- .** Spitzbergen. (Contemporary review, Feb. 1950. v. 177, p. 108-111) Notes on Norwegian and Russian coal

mining on West Spitsbergen and on the living conditions of people in the mining communities. **Copy seen:** DLC.

**22798. ILLINGWORTH, FRANK, 1908-** . Wild life beyond the North. London, Country Life; New York, C. Scribner's Sons [1951]. 168 p., illus.

Following introductory chapters on impressions and experiences in his travels in northern Scandinavia, Spitsbergen and Canada, the author gives an account of the "animals, birds and creatures of the North, and their relations with man" with chapters on the musk-ox, reindeer, fox, hare, caribou, polar bear, walrus, seal and seal hunting, the whale, the wolverine, and lemmings (termed "Arctic suicide squads"). Reviewed in the *Beaver* June 1952, Outfit 283, p. 46-47.

**Copy seen:** DLC.

**22799. ILLINGWORTH, FRANK, 1908-** . The world's only cryolite mine. (Mine & quarry engineering, Sept. 1950. v. 16, p. 277-79, illus.)

Description of the Danish mine at Ivigtut, Southwestern Greenland.

**Copy seen:** DGS.

**22800. ILLUSTRATED ARCTIC NEWS.** Facsimile of the Illustrated arctic news, published on board H. M. S. Resolute . . . in search of the expedition under Sir John Franklin . . . Lieut. Sherard Osborn [i. e. Osborn], & Mr. Geo. F. McDougall . . . editors. London, Ackermann & co., 1852. 2 p.l., 57 p. incl. illus. (part col.) col. plates. Text and illus. etc. are lithographed; title vignette in colors.

Printed and published after the expedition's return home, from the five numbers originally issued in ms., Oct. 31, Nov. 30, Dec. 31, 1850, Jan. 31 and Mar. 14, 1951, on shipboard during the wintering of the *Resolute* under Captain H. T. Austin in Barrow Strait near the southern end of Cornwallis Island. The text is made up of notes (mainly humorous) on day-to-day happenings, occupations, and amusements of the winterers, weather, ice, etc. The numerous pencil sketches include a few of coasts and ships, in ice. On p. 2 is an account (and sketch) of graves of seamen from Franklin's last expedition, found on Beechey Island.

**Copy seen:** DLC.

**22801. ILVESSALO, LAURI.** Forest research work in Finland; the origins and development of forest research work and

a review of the investigations carried out up to date. Helsinki, 1926. 92 p. (*Acta forestalia fennica*, 31:2) Also published in Finnish: *Metsätieteellinen tutkimustoiminta Suomessa* . . . as *Acta forestalia fennica*, 31:1, 1926.

Contains a review article with an extensive list of papers noted in the review, also papers published in *Acta forestalia fennica* 1909-1926, and in publications of the Forest Research Society of Finland, 1919-26.

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**22802. ILVESSALO, LAURI, and M. JALAVA.** Maapallon metsävarat. Helsinki, 1930. 387 p., 4 fold. maps. 98 tables, diags. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 16:2) **Title tr.:** Forest resources of the world.

A survey with data and statistics on the location and types of trees as they occur naturally, including northern forests in Russia, Norway, Siberia, Sweden, Alaska, Greenland and Finland; with some data and discussion on their exploitation and on rational care of forests. Bibliography (about 120 items). Summary in English, p. 387-407, also English captions on the extensive graphic and tabular data.

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**22803. ILVESSALO, YRJÖ, 1892-** . The forest resources of Finland in 1936-1938. A summary of the main results of the Second National Survey of Forests. Helsinki, 1940. 48 p., maps, tables. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 28:7) Also published in Finnish: *Suomen metsävarat vu 1936-1938*, as v. 28, no. 6 of the journal noted above, and republished in English as *Fennia* 66:5, 1940.

Brief description of some of the main results of the second national forest survey of Finland 1936-38, presented here by its director because calculation of full results and presentation of main report was prevented by Russo-Finnish war. Author outlines methods in surveying (line-survey and circular sample plots) and calculating (punched card system); gives data on land types and areas; the forest area is divided according to dominant tree species (pine, spruce, birch, aspen) and the four types contrasted as to productivity, soil areas, growth rate, etc. Gives also data on swamps, contrasting swamp types for northern and southern Finland; and data on annual growth of trees.

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**22804. ILVESSALO, YRJÖ, 1892- .** The forests of Finland, the forest resources and the condition of the forests; a paper discussing the main results of the general forest survey. Helsinki, 1924. 40 p., maps, diags., etc., on 10 plates. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 9:3) Also published in Finnish: *Suomen metsät, metsävarat ja metsien tila*, and in Swedish: *Finlands skogar, skogstillgångarna och skogarens tillstånd*, as no. 1 and 2 respectively in v. 9 of this journal.

Contains preliminary data from the 1921-24 survey results (which were published later as the author's *Suomen metsät*, 1927, q. v.) Here he outlines briefly the scope and method of this survey and (at end) reliability of the results; characterizes four classes of land from viewpoint of potential forest growth and indicates distribution such lands in various provinces, with general comparison of northern and southern sections of the country (64° N. lat. as line of division); gives statistical data on ownership; distribution of forest and swamp lands, composition (tree species), age and growing stock of forest, its merchantable timber and annual growth. As appendix, author outlines forest classification system used in Finland: the forest types (grove, fresh and heath) being characterized by vegetable surface cover (here defined for each type) of the stand at exploitable age.

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**22805. ILVESSALO, YRJÖ, 1892- .** The forests of present-day Finland. Helsinki, 1949. 56 p., 35 illus. incl. plates, diags., maps. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 35:6) Text is published also in Finnish, *Nyky-Suomen metsät*, 1948, as paper no. 5 in the same volume of this journal.

On the basis of data resulting from the second national forest survey, 1936-38, the author characterizes the area covered in the present paper (60°-70° N. lat.); the volume of growing stock, annual growth and treatment of the forests; silvicultural condition; ownership; felling and utilization of the wood, etc.; with comparative data for the northern and southern parts of Finland.

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**22806. ILVESSALO, YRJÖ, 1892- Ö.** II:n Valtakunnan metsien arvioinnin Suunnitelma ja ulkotyöohjeet. Helsinki, 1936. iv, 77 p. illus., map, tables (2 fold.). (Helsingfors. Metsätieteellinen

tutkimuslaitos. Julkaisuja, v. 22, no. 5) **Title tr.:** Instructions for field work of the second national survey of the forests of Finland.

Contains statement of need for inventory of forest resources in countries where timber production is important in the national economy; outline of the first national forest survey in Finland 1922-24, and the second survey 1936-38, conducted by "line-survey" method, i. e. survey made on sample plots along straight parallel lines at fixed distances apart, running at right angles to the general length direction of the land figures, and from this representative sampling, generalization made for the country as a whole. The detailed instructions given for the work (map, survey lines, direction and measuring, determination of watershed areas, owners, land classification, descriptions of stand, cutting quantity, sample plots, etc., including forms for records, reports, etc.) are outlined. Summary in English, p. 55-77.

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**22807. ILVESSALO, YRJÖ, 1892- .** Maisemiemme keskimääräinen metsäisyys päävesistöalueittain. (Terra, 1942. 54: 1-2, p. 71-75, table, map) **Title tr.:** The average forest cover in the various water-shed areas in Finland.

Shows percentage of (1) land deforested for cultivation purposes, (2) forested land (dominated by pine, spruce, birch or alder), and (3) naturally treeless areas, in the 20 main watershed areas throughout Finland, including three in the North. Summary in German.

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**22808. ILVESSALO, YRJÖ, 1892- .** Metsä-ja suotyyppien esiintymisen keskinäisestä suhteesta. Helsinki, 1934. 20 p., illus., maps, table. (Acta forestalia fennica, 40:11) **Title tr.:** On the mutual relations between the occurrence of forest (site) types and swamp types.

The study is based on the soil types noted during a line survey of Finnish forests in 1921-24. The forest types: (1) grass herb, moist moss, and (2) moderately dry and dry moss-lichen, are correlated in respect to their location with swamp types: (1) spruce and broadleaf-tree, brown and shore white moor, and (2) pine and white moor. Definite correlations were found. Summary in English.

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**22809. ILVESSALO, YRJÖ, 1892-** . Metsämaitten jyvityksen perusteet. (Maanmittaus, 1938. v. 13, no. 2, p. 59-85, illus., diagrs.) **Title tr.:** Foundations for classifying forest lands.

*Contains* basis for mapping forest areas of Finland (after Cajander *Ueber Waldtypen* 1909). 13 distinct types of forests and their subdivisions are described, those of the North characterized separately. Data are presented on determining volume, annual growth, productive- or non-productiveness, and value of the forest. Pine and spruce of the North are compared statistically with those of southern parts of the country.

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**22810. ILVESSALO, YRJÖ, 1892-** . Metsätyyppien esiintyminen eri maala-jeilla. Helsinki, 1933. 36 p., tables. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 18:5) **Title tr.:** Occurrence of forest types on the different soils.

*Contains* on the basis of data collected during the forest survey of Finland (including northern region) 1921-24, remarks on occurrence of forest types and outline of soil types (morainic gravel, esker gravel, sand, silt, clay); discussion and tabulation of data showing mutual relation of forest and soil types: importance of different soils as forest land, distribution of forest types among different soils, proportion of soils to different forest types, and occurrence of different species of trees on different soils. Bibliography (10 items). Summary in English.

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**22811. ILVESSALO, YRJÖ, 1892-** . Perä-Pohjolan luonnon normaalien metsiköiden kasvu ja kehitys. Helsinki, 1937. 168 p. 4 plates. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, v. 24, no. 2) **Title tr.:** Normal growth of natural forest stands in central northern Finland.

On the basis of research at 136 sample plots (115 north of the Arctic Circle) covering a land area of five million hectares, the author describes growth and development of the forest and of its dominant trees; he gives recommendations for thinning of slower-growing northern trees. Bibliography (75 items). Summary in English, p. 147-68.

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**22812. ILVESSALO, YRJÖ, 1892-** . Peruspyrkimyksiä Lapin metsien käsittelyssä. (Metsä-taloudellinen aikakaus-

kirja (Finska forstföreningen), 1951. no. 1, p. 5-8, tables) **Title tr.:** Principal aims in the treatment of forests of Finnish Lapland.

Discussion of methods of utilizing more fully the pine, fir, and spruce in northern and southern Lapland. The slow growth in the far North (160 years required for trees to equal in size the 80-year growth in southern areas) raises question of the profitability of logging in this long rotation scheme. Author suggests industrial use of small pine from this area and shortening rotation to 100-120 years. Summary in English.

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**22813. ILVESSALO, YRJÖ, 1892-** . Pohjoismaiden metsävarat toisiinsa verrattuina. Helsinki, 1931. 32 p., tables, 10 maps. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 14:6) **Title tr.:** A comparison of the forest resources of the northern countries.

The forest resources are compared on the basis of results from strip surveys completed in Finland in 1924, Sweden 1929, and from that part (90 per cent) completed in Norway. Northern regions are represented in each country. Bibliography (25 items). Summary in English.

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**22814. ILVESSALO, YRJÖ, 1892-** . Suomen metsät; tulokset vuosina 1921-1924 suoritetusta valtakunnan metsien arvioimisesta. Helsinki, 1927. ix, 421, 192 p., 156 tables (2 fold.), diagrs., maps (1 fold.). (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 11) **Title tr.:** The forests of Finland; results of the general survey of the forests of the country carried out during the years 1921-1924.

Basic work on northern and southern Finland, containing statistical and other data on forest types, swamps, forest lands, ownership, tree-age classes, annual growth, reserve timber, density and quality of trees, firm and peat lands, number of trees, pasture land forests, characteristics of the land area, and reliability of results of the survey as a whole. Summary in English, p. 321-95, also English and Finnish captions to the extensive graphic and tabular material.

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**22815. ILVESSALO, YRJÖ, 1892-** . Suomen metsät viljavuusalueittain kuvattuina. Tuloksia vuosina 1921-1924 suoritetusta valtakunnan metsien arvioimisesta. Helsinki, 1930. 56 p., 40 plates

(maps), tables. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 15:4) **Title tr.:** The forests of Finland described by areas of fertility; results of the general survey of the forests of the country carried out during the years 1921-1924.

The results of the survey of 1921-24 originally presented according to administrative or watershed districts, are offered here according to much smaller units "fertility areas." The division of forests on this basis is presented. The areas (including about 10 north of the Arctic Circle) are described from viewpoint of mode of exploitation and of different forest and swamp types: area and occurrence of land fit for cultivation. Data are presented also in tabular form and graphically on maps, with captions in Finnish and English. Summary in English. **Copy seen:** DLC.

**22816. ILVESSALO, YRJÖ, 1892-** Suomen päävesistöalueiden metsät. Tuloksia vuosina 1921-1924 suoritettusta valtakunnan metsien arvioimisesta. Helsinki, 1929. 154 p., tables, 12 maps (1 fold.) (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 13:10) **Title tr.:** The forests of the main watershed areas of Finland; results of the general survey of the forests of the country carried out during the years 1921-1924.

Contains discussion (p. 1-64) and statistical data (presented in map and tabular form) on: ownership, land classification, the proportions and content of the forests, age classes; growing stock, and annual growth, in 14 watershed areas, including four north of the Arctic Circle. A preliminary statement is given on the importance of grouping forest data by watershed area in Finland where transportation of logs is mainly by floating. Summary in English (p. 65-69) and English captions to graphic and tabular material. **Copy seen:** DLC.

**22817. ILVESSALO, YRJÖ, 1892-** Vegetationsstatistische Untersuchungen über die Waldtypen. Helsinki, 1922. 73 p., 12 illus., 13 tables. (Acta forestalia fennica, 20:3) **Title tr.:** Vegetation-statistical investigations on forest types.

Analysis of numbers, proportion frequency of various plants in the different types of forests. Effect of the kind of trees on the composition of the vegetation. Distribution of the vegetation according to altitude. Critique of methods applied. **Copy seen:** DLC.

**ILVESSALO, YRJÖ, 1892-** . see also Cajander, A. K., & Y. Ilvessalo. Ueber Waldtypen II. 1922. No. 21081.

**22818. IMLAY, RALPH W.** Correlation of the Jurassic formations of North America, exclusive of Canada. (Geological Society of America. Bulletin, Sept. 1952, v. 63, p. 953-92, 2 fold. tables, maps)

Contains among the regions discussed, data on the Jurassic formations of Alaska and East Greenland. This report is part of a series of correlation charts prepared under the auspices of the Committee on Stratigraphy of the National Research Council. Bibliography (36 items on Alaska; 29 items on East Greenland).

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**22819. IMPERIAL OILWAYS.** At war with the Arctic. (Imperial oilways, Sept.-Oct. 1951. v. 10, no. 5, p. 10-13, illus.)

General remarks on Canadian Army and Air Force arctic exercise Sweetbriar, 1950, and Operation Ennadai One, 1949; with special reference to the use of ESSO products. **Copy seen:** DGS.

**INDICHENKO, L. N.,** see Menfallov, A. A., & others. Khrom i fluor vulkanicheskikh produktakh. 1947. No. 24290.

**22820. INFANTRY JOURNAL.** Motti tactics. (Infantry journal, Jan. 1950. v. 66, no. 1, p. 8-14, incl. illus., maps)

"The Finnish doctrine of winter warfare tactics (*motti*) is divided into three phases: reconnaissance and stopping, attack and cutting, and isolation and annihilation. The principal condition necessary for the success of *motti* tactics is the ability to operate under adverse terrain and weather conditions, including deep snow and extreme cold."—SIPRE. **Copy seen:** DLC.

**22821. INGSTAD, HELGE MARCUS, 1899-** Nunamiut, blant Alaskas innlands-eskimoer. Oslo, Gyldendal, 1951. 334 p. illus., ports., fold. col. map) **Title tr.:** Nunamiut; among the inland Eskimo of Alaska.

Contains narrative of the author's journey during 1949-50, among north Alaskan Eskimos living in the region of Anaktuvuk Pass, Brooks Range. The Nunamiuts comprise two groups: the Tulugarmiut and the Kilik, together 13 families, in all 65 individuals in 1949. They are caribou hunters and now inland-dwelling (most of the present children

had never seen the ocean). But caribou being few in the usual hunting grounds, they had lived during 1918-1938 on the coast near the Yukon border, where they learned to hunt seal and white fox. In recent years the Nunamiuts have discontinued the yearly spring-time voyage to the mouth of the Colville River, where they used to trade with Eskimos from Barrow. A few times every year their camps are visited by aircraft from Fairbanks, bringing supplies: ammunition, tobacco, coffee, knives, cooking utensils, etc., and taking wolfskins in exchange. Their culture is thus almost wholly like that of their predecessors: based on the caribou, from which they get food, clothing, tents, thread, etc. They move as the caribou moves, when the herds are large, they flourish, when scarce they suffer famine in all essentials. The work is extensively illustrated with photographs of the people and of their equipment, also sketches by the Eskimo, Paneaq, who helped the author with the language and hunting techniques, as well as with the history, songs and myths of his people. The ethnological collections made during this sojourn are to be worked up for separate publication. This group of people has also been described by Dr. R. L. Rausch q. v.

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**INTERNATIONAL COMMISSION ON SNOW AND ICE**, *see* Field, W. O. *Gazetteer Alaskan glaciers. 1941. No. 21782.*

**INTERNATIONAL FEDERATION FOR DOCUMENTATION**, *see* Roberts, B. B. *Abstract Universal Decimal Classification. 1950-52. No. 25592.*

**22822. INTERNATIONAL FISHERIES COMMISSION.** Regulation and investigation of the Pacific halibut fishery in 1947-1949. Seattle, 1948-1951. 3 nos. illus., maps, tables. (*Its: Reports, no. 13-15*)

Published at request of halibut fishermen, dealers and others, a review of conditions and events in the fishery and of the Commission's regulatory and investigational activities in the years covered. The 1947 report (first in the series) reviews the history of the Pacific halibut fishery and its regulation by the Commission beginning 1930.

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**22823. INTERNATIONAL GEODETIC AND GEOPHYSICAL UNION. AS-**

**SOCIATION OF SCIENTIFIC HYDROLOGY.** Assemblée générale d'Oslo 19-28 août 1948. Procès-verbaux des séances, t. 2. Travaux de la Commission de la Neige et des Glaciers, Louvain, 1950? 407 p., illus. (incl. sketch maps, diagrs.) **Title tr.:** General assembly at Oslo, Aug. 19-28, 1948. Proceedings of the meetings, v. 2. Transactions of the Commission on Snow and Glaciers.

Reports and papers on physical characteristics of snow cover, crystalline structure of glaciers, glacial measurements, glaciological research, and formation of ice on lakes and rivers, by representatives from northern Europe, Great Britain, Canada, United States, and South American countries.

**Contents include:** KORHONEN, V. V. Report of the researches concerning snow- and ice-conditions which have been made in Finland after 1936.

CHURCH, J. E. The evolution of snow-melt by dyes and drip-pan.

Leggett, R. F. Canadian interest in snow and ice research. (*See Arctic Bibliography, No. 9841.*)

Klein, G. J. Canadian survey of physical characteristics of snow-covers. (*See Arctic Bibliography, No. 8805.*)

SMITH-JOHANNSEN, R. Snow data.

SCHAEFER, V. J. The development of a snow classification system.

LUNDQUIST, R. E. Descriptive and quantitative classifications of various conditions persisting in snow and ice deposits.

SCHAEFER, V. J. The formation of ice crystals in the laboratory and in the atmosphere.

RENAUD A. Contribution to the study of glacier crystals. (*In French.*)

SELIGMAN, G. The growth of the glacial crystal.

AHLMANN, H. W., and E. G. DROESSLER. Glacier ice crystal measurements at Kebnekajse, Sweden.

Ahlmann, H. W. Recent glaciological investigations in Sweden. (*See Arctic Bibliography, vol. 5.*)

FIELD, W. O., Jr. The variations of Alaskan glaciers, 1935-1947.

FISHER, J. E. The pressure melting point of ice, and the excavation of cirques and valley steps by glaciers.

FISHER, J. E. Pressure melting points of ice and their control on the profile of glaciated valleys.

DEVIK, O. Ice formation in lakes and rivers.

DEVIK, O. Supercooling and ice formation in open waters.

KAITERA, P. Keeping water from freezing by means of compressed air.

Each of these papers appears in this Bibliography under the author's name (excepting those noted as having been analyzed in *Arctic Bibliography* previously). **Copy seen:** DGS.

**INTERNATIONAL GEOLOGICAL CONGRESS.** 17th, Moscow and Leningrad, 1937, *see* Lazurkin, V. M., & V. N. Saks. *Novoe v geol. Arktiki. 1936.* No. 23703.

**INTERNATIONAL GEOLOGICAL CONGRESS.** 17th, Moscow and Leningrad, 1937, *see also* Samoilovich, R. L., & others. *Geologiya Arktiki. 1937.* No. 25812.

**INTERNATIONAL METEOROLOGICAL ORGANIZATION,** *see* Fleming, J. A. Temporary Commission on liquidation of 2d Polar Year. 1950. No. 21829.

**22824. INTERNATIONAL METEOROLOGICAL ORGANIZATION. TEMPORARY COMMISSION ON THE LIQUIDATION OF THE POLAR YEAR 1932-33.** Bibliography for the Second International Polar Year 1932-33. Copenhagen. Hørsholm bogtrykkeri, 1951. 253 p. (Compiled by V. Laursen, executive officer of the Commission.

*Contains* a preface (p. 9-12) outlining the appointment of the Temporary Commission charged to bring the work of this Polar Year to a conclusion with production of this publication which is in 3 parts: (1) an historical summary of the organization of the Second International Polar Year (p. 13-34) with tribute to its president D. La Cour, note of officers, sources of funds, scope of scientific investigations to be undertaken, etc. Part 2 (p. 37-184) is a roster of the 48 participating countries, noting for each (1) its special expeditions and stations established in polar or other areas, also work done at its existing network of stations or permanent observatories; and (2) list of the published and unpublished results of this work, also papers about the country's participation. These results, etc. are grouped by subject: general, meteorology, radiation, ozone, aerology, geomagnetism, earth currents, atmospheric electricity, radio electricity, aurora, cosmic rays, hydrography, special investigations. In part 3 (p. 185-253),

789 published scientific papers of pt. 2 are listed according to subject. Papers in the Polar Year archives at the Danish Meteorological Institute, Charlottenlund available to investigators are indicated.

**Copy seen:** CaMAI.

**22825. IOFF, I. G.** Über neue Aphanip-  
teren in der Sammlung des Zoologischen  
Museums der Akademie der Wissen-  
schaften. (Akademiia nauk SSSR. Zool-  
ogicheskii muzei. Ezhegodnik, 1927,  
pub. 1928. T. 28, vyp. 3, p. 407-439,  
illus.) **Title tr.:** On new Aphaniptera  
in the collection of the Zoological Museum  
of the Academy of Sciences.

*Contains* critical revision of 19 new  
or noteworthy species of fleas (Aphanip-  
tera) in the Museum's collection, with  
keys, descriptions of ten new species,  
critical notes and data on host animals  
and distribution; includes *Ceratophyllus*  
*lunatus*, found on small rodents of  
Kamchatka Peninsula.

**Copy seen:** DLC; MH-Z.

**22826. IOGANSSON, L.** Opredelitel'  
pišavok. Leningrad, Redaktsionno-iz-  
datel'skii otdel TSUEGMS, Leningrad-  
skoe otd-nie, 1935. 29 p., 4 plates.  
(Leningradskoe oblastnoe gidro-meteor-  
ologicheskoe upravlenie. Trudy Otdela  
gidrologii. Seriya 1: Materialy ekspeditsionnykh issledovaniĭ, t. 1. Supplement.) **Title tr.:** Key for identification  
of leeches.

A translation of the author's mono-  
graph on leeches originally published in  
the series "Die Tierwelt Deutschlands"  
(The Animal world of Germany), and  
published here as a supplement to results  
of the Moncherzerskaya limnologicheskaya  
ekspeditsiya, q. v., with complementary  
notes on forms found in Russia and some  
data on their occurrence and biology.  
Includes forms found in arctic areas.

**Copy seen:** DLC.

**22827. IOGANZEN, B. G.** Morfologo-  
biologicheskie osobennosti kruglorotnykh  
Sibiri. (Zoologicheskii zhurnal, 1935.  
t. 14, vyp. 2, p. 353-70, and vyp. 3,  
p. 501-522, illus.) **Title tr.:** Morphol-  
ogo-biological peculiarities of Siberian  
lampreys.

*Contains* a morphological and biological  
study of two species of lamprey inhabit-  
ing Siberian rivers, *Lampetra japonica*  
*septrionalis*, a large form (Ob' River),  
and (in vyp. 3) *L. japonica kessleri*, a  
small form (northern Yenisey and other

west and east Siberian rivers). Summary in German. **Copy seen:** DLC; MH-Z.

**22828. IOGANZEN, B. G.** Vazhnelshie voprosy razvitiia rybnogo khoziaistva Zapadnoi Sibiri. (Rybnoe khoziaistvo, Nov. 1952. v. 28, no. 11, p. 48-50) **Title tr.:** Major problems of development of the fisheries of Western Siberia.

**Contains** data to show the importance of west Siberian fisheries, especially those of the Ob' basin; remarks on the administrative division of the area and resulting discrepancies in fish protection laws; need for a single, scientifically sound, fishing and fish-protection law for the whole Ob' basin. Hydro-electric projects and local fisheries, possibilities of fish farming, fish diseases and efforts to combat them, acclimatization of new species, etc., are also discussed.

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**22829. ION, OSKAR IVANOVICH.** O nebol'shom sboe puzrenogikh s Kol'skogo poluoostrova. (Russkoe entomologicheskoe obozrenie, 1930. t. 24, no. 1-2, p. 111-12) **Title tr.:** On a small collection of Thysanoptera from the Kola Peninsula.

**Contains** a list of ten species of thrips (Thysanoptera) collected by V. Stark in 1928, in Khibiny Tundra near Imandra, Kola Peninsula, with localities and names of plants on which they feed.

**Copy seen:** DSI-M; MH-Z.

**22830. IONOV, V. M.** Dukh-khoziaia lesa u iakutov. Petrograd, 1916. 43 p. (Akademiia nauk SSSR. Muzel antropologii i etnografii. Sbornik. t. 4, vyp. 1) **Title tr.:** The spirit owner of the forest among the Yakuts.

**Contains** material collected by the author during the Yakut expedition in 1894-96, and from literature, on Yakut beliefs, customs and invocations (in verse) to the mighty forest spirit Bai Bajanai. An additional and long invocation is given, which was written down by I. A. Novgorodov in 1914 on his trip to the district of Yakutsk. Texts in Yakut and Russian. See also *Arctic Bibliography* No. 7772. **Copy seen:** DSI.

**22831. IONOV, V. M.** K voprosu ob izuchenii dokhristianskikh verovanii iakutov. (Akademiia nauk SSSR. Muzel antropologii i etnografii. Sbornik, 1918. t. 5, vyp. 1, p. 155-64) **Title tr.:** On the question of studying the pre-Christian beliefs of Yakuts.

**Contains** notes on the country of the Yakuts (rivers and lakes), their occupation (horse breeding, hunting and fishing); then follows a list of Yakut deities and objects of worship, with comments and suggestions for further investigation.

**Copy seen:** DSI.

**22832. IONOV, V. M.** Orel po voz-zreniiam iakutov. 1. Pochitanie orla u iakutov; 2. Pesnia o nastuplenii goda. St. Petersburg, 1913. 28 p. (Akademiia nauk SSSR. Muzel antropologii i etnografii. Sbornik. t. 1, vyp. 16) **Title tr.:** The eagle in the beliefs of the Yakuts. 1, Worship of the eagle among the Yakuts; 2, Song at beginning of the year.

**Contains** text of a song in Yakut and Russian, and discussion of beliefs about the eagle which is considered by the Yakuts as a restorer of nature: its coming brings summer. Prayers are said to the bird and it is respectfully addressed as "sir" (Yakut: *tojon*). These materials were collected by the author during the Yakut Expedition in 1894-96 and later.

**Copy seen:** DSI-M.

**IONOV, V. M.,** see also Pekarskii E. K. Slovar' iakutskago iazyka. 1907-1930. No. 25021.

**22833. IONOVA, O. V.** Iz istorii iakut-skogo naroda. Pervaiia polovina XVII veka. Iakutsk, Gosud. izd-vo IIASSR, 1945. 110 p. (Nauchno-issledovatel'skii institut iazyka, lit-ry i istorii IIASSR.) **Title tr.:** From the history of the Yakuts. First half of the 17th century.

This account stresses particularly the socio-economic conditions of the Yakuts during the period covered; the establishment of Moskovite sovereignty, Moscow's relations with the Yakuts, and the latter's attempts to resist Russian rule.

**Copy seen:** DLC.

**22834. IONOVA, O. V.** Zhilye i kho-ziaistvennye postroiki iakutov. (Akademiia nauk SSSR. Institut etnografii. Trudy, 1952. Novaia seriia, t. 18, Sibirskii etnograficheskii sbornik, t. 1, p. 239-319, 38 illus.) **Title tr.:** Yakut dwellings and domestic buildings.

**Contains** historical-ethnographical description of different kinds of Yakut buildings from olden times (before the Russians came) to the present. Names, materials, form, building techniques, plan of the interior, etc., are given. Living tents, houses and other buildings for household purposes, fortified blockhouses

(for war), dwellings of the Russian type (log houses) and barracks of the recent kolkhozes, are discussed and extensively illustrated with photographs, sketches and diagrams. A chapter (p. 303-307) deals with beliefs and ceremonies connected with dwellings.

*Copy seen:* DLC.

**22835. IRVING, LAURENCE.** Climatic adaptation in arctic and tropic animals. (U. S. Public Health Service. Public health reports, 1951. v. 66, no. 29, p. 939-41)

*Contains* a general discussion of cold adaptation in arctic and tropical mammals (in part summarizing results of experimentation in the Arctic Research Laboratory at Point Barrow). Metabolism increase due to drop in temperature was found in many tropical animals but not in arctic forms where insulation appears to be the only protective factor against cold in animals weighing 5 kg. and over. The complexity of physical and physiological devices designated as "insulation" is suggested.

*Copy seen:* DLC.

**22836. IRVING, LAURENCE.** Physiological adaptation to cold in arctic and tropic animals. (Federation proceedings, June 1951. v. 10, no. 2, p. 543-45)

"Certain physiological systems are arranged in arctic animals for the conservation of heat; thus the metabolic costs of living in low temperature are apparently held down to about the same basal level of energy expenditure as is found in warmer climates." Devices possessed by arctic animals and deficient in tropic forms, which obviously serve to conserve heat, author terms adaptive. He gives a general account of body temperature measurements made mainly in the Point Barrow region of Northern Alaska, on reindeer, dog, fox, porcupine, etc., in cold arctic weather. The animals' metabolism; the insulatory effect of fur, surface skin and subcutaneous temperature; temperature of legs and hoofs, etc., are discussed, with suggestion that "certain tissues of warm-blooded animals in the Arctic have . . . a sort of chemical adaptation of their substances to suit them for operation at temperatures lower than that of the mammalian body." Bibliography (4 items).

*Copy seen:* DLC.

**IRVING, LAURENCE,** *see also* Scho-lander, P. F., & others. Adaptation to

cold mammals & birds. 1950. No. 25976.

**IRVING, LAURENCE,** *see also* Scho-lander, P. F., & others. Body insulation mammals & birds. 1950. No. 25977.

**IRVING, LAURENCE,** *see also* Scho-lander, P. F., & others. Heat regulation mammals & birds. 1950. No. 25978.

**22837. IRVING, WILLIAM.** Archaeology in the Brooks Range of Alaska. (American antiquity, July 1951. v. 17, p. 52-53, incl. plate)

During a "cursory survey" in the Endicott Mts. in 1950, ten sites near the Anaktuvuk and Killik Rivers were examined, showing "culture phases comparable with modern and recent-prehistoric Eskimo, and Denbigh Flint complex."

*Copy seen:* DLC.

**22838. IRWIN, DON LOUIS, 1888-** Alaskan agriculture. (Science, Nov. 1951. v. 114, no. 2968, p. 3)

*Contains* a review of the U. S. Government's steps to advance Alaska's agriculture through research on crops, fertilizer, livestock, etc.; on selection of suitable varieties of potatoes, vegetables, fruit, cereals, fodder, etc., and on marketing and economic problems.

*Copy seen:* DA.

**22839. IRWIN, DON LOUIS, 1888-** Status and accomplishments of agricultural research in Alaska. (In: Alaskan Science Conference . . . 1950. Selected papers, 1952, p. 1-10)

*Contains* a report and assessment of agricultural research, conducted jointly for the past three years by the U. S. Dept. of Agriculture and the University of Alaska, in particular: experimental station facilities, work in soil chemistry; potato selection, culture and storage; vegetable and fruit tree tests; dairy cattle-breeding; animal disease and pests; research of cereal and forage crops; farm management, marketing, agricultural engineering.

*Copy seen:* DLC; DAL.

**IRWIN, DON LOUIS, 1888-** *see also* Alaska. Agricultural Experiment Station. Administrative report 1951. 1952. No. 20109.

**22840. IRWIN, EVERETT,** and others. Ascorbic acid content of adrenal glands of young albino rats after cold and other stresses. (Endocrinology, June 1950. v. 46, p. 526-35, 3 fig., table) *Other authors:*

A. R. Buchanan, B. B. Longwell, D. E. Holtkamp, and R. M. Hill.

Contains a study of 13-, 32-, and 50-day-old rats. Depletion of adrenal ascorbic acid through hypothermia was not elicited in the 13-day-old group, in control to the older groups; a variety of other stresses caused a depletion in the 13-day-old as well as in the other animals. The failure of cold to produce a depletion of adrenal ascorbic acid (and adequate thermo-regulation) in the infant rats is therefore attributed to immaturity of some part in the thermoregulatory mechanism, between the cold receptor and the adrenals, and/or to depression of the body temperature below the level essential to enzymatic reactions involved in the production of corticosteroids. Bibliography (15 items).

**Copy seen:** DLC.

**22841. ISACHENKO, A. G.** O fiziko-geograficheskikh rubezhakh Russkoĭ ravniny. (Vsesoiŭznoe geograficheskoe obshchestvo, Izvestiia, 1952. t. 84, no. 1, p. 26-35) **Title tr.:** On the physico-geographical boundaries of the Russian plain.

Contains a critique of F. N. Mil'kov's *K analizu landshaftnykh (fiziko-geograficheskikh) rubezhei na russkoĭ ravnine*, q. v., and of the ideas contained in it. The author, on the basis of other authorities, attacks Mil'kov's conception of sharp demarcation lines between physico-geographical regions on the Russian plain, along climatic, physico-geographic or other lines. On the basis also of dialectical materialism, he claims a gradual "genetically" determined and complex transition between these areas. Bibliography (over 20 items).

**Copy seen:** DLC.

**22842. ISACHENKO, BORIS LAVRENT'EVICH, 1871-1948.** Issledovaniia nad bakteriami Severnogo Ledovitogo okeana. (In his: *Izbrannye trudy*, 1951. v. 1, p. 111-285, 391-404, illus., plates 1-3, text map) **Title tr.:** Investigations of the bacteria of the Arctic Ocean. This work was originally published as *Trudy Murmanskoi nauchno-promyslovoi ekspeditsii 1906 g., 1914.* (p. 1-297, illus., 3 plates) copy not located.

**Contents tr.:** Chap. 1 (p. 113-31) A sketch of the investigations of the bacteria in the ocean. 2 (p. 131-43) Chemical composition of the seas. 3 (p. 143-49) Methods used for the bacteriological investigation of the water. 4 (p. 150-63)

Organisms fixing free nitrogen. 5 (p. 163-74) Nitrifying bacteria. 6 (p. 174-211) Denitrifying bacteria. 7 (p. 212-62). On hydrogen sulfide fermentation. 8 (p. 263-74) On microorganisms oxydating sulphur combination. 9 (p. 274-84) On some processes and microorganisms whose role is not clear.

This work is a result of the Expedition for the Scientific-Economic Investigation of the Murman Coast 1898-1908. (Ékspeditsiia dlia nauchno-promyslovykh izsledovanii u beregov Murmana, 1898-1908). It represents an extensive investigation of bacteria of the Barents Sea, Kara Sea (few only), and the relict lake Mogilnoye on Kildin Island, Murman Coast. Includes list of the various bacteria with descriptions and data on nutritive media, coloration and place of find. See p. 199-210 (14 new species); p. 256-62 (16 species, 8 new); p. 268-75 (12 species, 2 new); bibliography, p. 391-404 (about 450 items). **Copy seen:** DLC; MH-Z.

**22843. ISACHENKO, BORIS LAVRENT'EVICH, 1871-1948.** Izbrannye trudy. Moskva-Leningrad, Izd. Akademii nauk SSSR, 1951. 2v.: 409, 430 p., front., illus., ports., plates, maps. (Akademiia nauk SSSR. Institut mikrobiologii) **Title tr.:** Selected works.

**Contents tr. include:** Investigations of the bacteria of the Arctic Ocean (v. 1, p. 111-285, 391-404, see item above) Bacteriological investigations of arctic soils (v. 1, p. 313-33, 405) originally published in 1934 (see *Arctic bibliography* No. 7789). Microbiological characterization of the bottom and waters of Kara Sea. (v. 1, p. 334-63, 406-407, illus., text map) originally published in 1937 (see *Arctic bibliography* No. 7788). Vol. 2 contains no arctic material.

**Copy seen:** DLC (v. 1-2); MHZ (v. 1 only).

**ISACHENKO, BORIS LAVRENT'EVICH, 1871-1948,** see also Usachev, P. I. B. L. Isachenko. 1949. No. 26992.

**22844. ISACHENKO, V. L.** Novyi vid siga iz basseina r. Eniseia s 2-mia tablitsami risunkov. (Krasnoyarsk, U.S.S.R. Vostochno Sibirskaiia nauchnnaia rybokhoziaistvennaia stantsiia. Trudy, 1925, t. 2, vyp. 2, p. 1-18, tables) **Title tr.:** A new species of whitefish from the basin of the Yenisey River, with two tables of illustrations.

Contains a detailed description of the new species, *Coregonus fluvialtilis* sp. n.

together with some observations on breeding, habitat and growth. Summary in German. **Copy seen:** DLC.

**22845. ISRAELSON, GUNNAR.** The freshwater Florideae of Sweden: studies on their taxonomy, ecology and distribution. Uppsala, Lundequistska bokhand., 1942. 135 p., plates 1-3, text maps, 2 fold. tables. (Symbolae botanicae upsalienses, t. 6, no. 1)

*Contains* in pt. 1 (p. 10-60), a taxonomic study of fresh-water red algae of the group Florideae, with a systematic list of 20 species known from Sweden (two described as new), with keys, synonymy, description and critical notes. Part 2 deals with the ecology (physical and chemical conditions) and geographic distribution of various natural groups. *Appendices:* 1, localities of investigations; 2, localities in Sweden for each species of fresh-water Florideae studied, p. 101-30. Eight species are native to Swedish Lapland. Bibliography (94 items).

**Copy seen:** DA; MH-A.

**22846. ISRAELSON, GUNNAR.** On some attached Zygnemales and their significance in classifying streams. (Botaniska notiser, 1949, häfte 4, p. 313-58, illus., text maps, diagrs.)

*Contains* a critical study of attached species of *Mougeotia*, *Mougeotiopsis*, *Spirogyra* and *Zygnema*, algae important in the vegetation of rapid streams in Scandinavia, including Swedish Lapland (*Zygnema melanosporum* and *Spirogyra lapponica*). Scandinavian rivers are classified into two chief types according to the vegetation of their lotic biotypes, viz. *Vaucheria* type and *Zygnema* type. Bibliography (58 items). Summary in English.

**Copy seen:** DA; MH-A.

**22847. ISRAELSON, GUNNAR.** Two fresh-water Protoflorideae new to Sweden. Botaniska notiser, 1949, häfte 4, p. 366-76., illus.)

*Contains* descriptions of two fresh-water Protoflorideae, *Rhodospira sordida* and *Chrootheca rupestris*, algae found in the Abisko region of Swedish Lapland, and a critical study of three species of *Chrootheca* occurring in Sweden with data on their cytology and ecology; bibliography (20 items).

**Copy seen:** DA; MH-A.

**22848. ISTOMIN, F. M.** Zyriane. (In: Entsiklopedicheskiĭ slovar', 1890-1904. v. 12a, p. 725-27)

A comprehensive sketch of the Zyrians or Komi settled in the northern parts of Vologodsk and Arkhangel'sk province: their origin and relationship with Permians and Votyaks; etymological origin of their tribal name; christianization, history, language and culture; their settlement in rural districts and towns in the Vychegda basin (61°19' N. 46°55' E. right tributary of the Severnaya Dvina), physical and psychological characteristics, aptitude for learning and higher culture; their dwellings, fishery, hunting and trapping; their agriculture and farming implements; family life, songs, folklore and games; religious beliefs; industry and economy; farm products, cattle and reindeer breeding, horses; their "narty" (sledges) and skiing; success as traders.

**Copy seen:** DLC.

**22849. ITIN, VIVIAN AZAR'EVICH, 1893-** Vykhod k morŭ; ocherki. Moskva, Federatsiia, 1931. 224 p., plates, ports. (Sotsialisticheskoe stroitel'stvo). **Title tr.:** An outlet by sea: sketches.

*Impressions* during a trip by sea in 1929 from the lower Ob' to Leningrad aboard the *Krasin* when this ice-breaker (formerly *Sviatogor*, reconditioned 1928) participated for the first time in the "Kara Expedition." The latter comprised voyages of freighters and ice-breakers organized for the difficult passage through Kara Sea and took place each summer from about 1921, between northern European ports and the lower Ob' and Yenisey. It represented north-east Siberia's outlet by sea.

**Copy seen:** DLC.

**22850. ITKONEN, ERKKI, 1913-** A. Andelinin utsjoenlappalainen satu- ja sananlaskukeräelmä. (Suomalais-ugrilainen seura. Aikakauskirja, 1947. v. 53, no. 4, p. 1-53) **Title tr.:** A. Andelin's collection of tales and proverbs of the Uts River Lapps.

*Contains* 25 tales and 51 proverbs, written down by Rovasti Anders Andelin (1809-1882) from the Inari Lapps in the period 1853-1859. Texts are given in Lappish and translated into Finnish.

**Copy seen:** DLC; InU.

**22851. ITKONEN, ERKKI, 1913-** Das Perfekt des Partizips im Lappischen (Suomalais-ugrilainen seura. Toimituksia, 1950. v. 98, p. 271-304) **Title tr.:** The perfect participle in Lappish.

In Proto-Lapp the ending *-me* was added to the parasyllabic stems, and *-mañǞže* to the imparisyllabic ones. Both were originally verbal nouns, the latter with a diminutive suffix attached to it. They were used as predicates without any auxiliary verb.

**Copy seen:** DLC; InU.

**22852. ITKONEN, ERKKI, 1913-** . Die Stammbildung bei den lappischen *Ǟ* - Stämmen. (Finnisch-ugrische Forschungen, 1941. Bd. 27, p. 168-88) **Title tr.:** The stem formation in the Lapp *Ǟ*-stems.

**Copy seen:** DLC; InU.

**22853. ITKONEN, ERKKI, 1913-** . Struktur und Entwicklung der ostlappischen Quantitätssysteme. Helsinki, 1946. xxii p., 267 p. (Suomalais-ugrilainen seura. Toimituksia, 88) **Title tr.:** Structure and development of the eastern Lapp quantity systems.

The very complicated quantity relations of Lappish are discussed in this work. Pt. I gives a general characterization of the quantity alternation in Lappish, a distinction being made between the degree alternation and structure alternation. Pt. 2 deals with the mutual effect of stress and quantity in the eastern Lapp dialects. In pt. 3, the exposition of the structure types of the eastern Lapp dialects follows, Inari, Skolt, and Kola Lappish being discussed. In an appendix some results of kymogram measurements are offered.

**Copy seen:** DLC; InU.

**22854. ITKONEN, ERKKI, 1913-** . Ueber den Charakter des ostlappischen Stufenwechselsystems. (Finnisch-ugrische Forschungen, 1941. Bd. 27, p. 137-67) **Title tr.:** On the character of the system of stage shift in eastern Lappish.

**Copy seen:** DLC; InU.

**22855. ITKONEN, ERKKI, 1913-** . Über den Ursprung einiger lappischen Wörter. (Finnisch-ugrische Forschungen, 1939-40. Bd. 26, p. 192-97) **Title tr.:** On the origin of some Lapp words.

*Contains notes on* *bardet* - to heap, *ǟlgat* - to disappear, *geldet* - to lift, stretch, and *sardde* - morsel, splinter.

**Copy seen:** DLC; InU.

**22856. ITKONEN, TOIVO IMMANUEL, 1891-** . Heidnische Religion und späterer Aberglaube bei den finnischen Lappen. Helsinki, 1946. iv, 320 p., illus. (Suomalais-ugrilainen seura. Toimituksia, 87) **Title tr.:** Pagan religion

and later superstition among the Finnish Lapps.

This book is the first complete presentation of the beliefs of the Lapps in Finland, and is based on both published and unpublished materials. The author has divided it into the following chapters: (1) gods; (2) *sieidi* i. e. rock, idols, and holy places; (3) nature and other spirits; (4) the sorcerer; (5) man in life and death; (6) celestial bodies and phenomena of nature; (7) beliefs concerning animals; (8) beliefs concerning the hunt; (9) other beliefs.

**Copy seen:** DLC; InU.

**22857. ITKONEN, TOIVO IMMANUEL, 1891-** . Die Heilkunde der Finnland-lappen. (Verein für finnische Volkskunde. Mitteilungen 1944, Bd. 2, no. 1-2, p. 27-30, no. 3-4, p. 53-63; 1945, Bd. 3, no. 1-2, p. 18-23) **Title tr.:** The medicine of the Lapps in Finland.

*Contains* an outline of three categories of diseases: those sent by God and incurable, those caused by an evil person or a magician (usually an internal illness), and ordinary or non-fatal diseases. Their medical therapy consists of rational means or magic acts. Dried angelica roots are considered helpful for almost all the internal diseases. Cold and hot compresses and massage are used; a toad for healing of abscesses, etc. A considerable list of diseases and their therapy is included.

**Copy seen:** InU.

**22858. ITKONEN, TOIVO IMMANUEL, 1891-** , and D. E. D. EUROPAEUS. Koltan- ja kuolanlappalaisia satuja. Kolttalaisia ja kildiniläisiä satuja. Jokongalaisia satuja. Helsinki, Suomalais-ugrilainen seura, 1931. 326 p. (Suomalais-ugrilainen seura. Toimituksia, no. 60) **Title tr.:** Skolt and Kola Lapp tales. Tales from Skolt and Kildin; tales from Jokonga.

*Contains* three collections of tales (83, 17, and 20), from these localities. The texts are given in the original Lappish dialect with a Finnish translation.

**Copy seen:** DLC; InU.

**22859. ITKONEN, TOIVO IMMANUEL, 1891-** . Lappalais-suomalaisia sanavertailuja, 2. (Suomalais-ugrilainen seura. Toimituksia, 1928. no. 68, p. 26-56) **Title tr.:** A comparison of Lappish and Finnish words, 2.

*Contains* treatment of 160 words which are somewhat similar in the two languages.

**Copy seen:** DLC; InU.

**22860. ITKONEN, TOIVO IMMANUEL, 1891-** . The Lapps of Finland. (South-western journal of anthropology, 1951. v. 7, no. 1, p. 32-68, sketch map)

Contains comprehensive survey of the Lapps in Finland (about 2,500), touching upon the whole complex of problems connected with Lappish studies, on the basis of recent scientific investigations. Deals with origin, archeology, language and anthropology of the Lapps, their occupation (reindeer breeding, hunting and fishing), foods, transportation, buildings, utensils, clothing, technology, social relations, religion, marriage and names. Numerous references are made also to the Norwegian and Swedish Lapps.

**Copy seen:** DSI.

**22861. ITKONEN, TOIVO IMMANUEL, 1891-** . Ostjakisch - lappische Wortvergleichen. (Suomalais-ugrilainen seura. Toimituksia, 1950. v. 98, p. 133-36) **Title tr.:** Ostyak-Lapp word comparisons.

The author proposes Lapp correspondences to eleven Ostyak words from the dictionary of K. F. Karjalainen (ed. Toivonen, 1948), q. v.

**Copy seen:** DLC; InU.

**22862. ITKONEN, TOIVO IMMANUEL, 1891-** . Der Schneeklopf und -schaber, ein arktisches Instrument. (Suomalais-ugrilainen seura. Toimituksia, 1933. no. 67, p. 132-35, illus.) **Title tr.:** The snow-beater and snow-scraper, an arctic implement.

The ice knife of Eskimos and the snow-scraper of Chukchis are made of bone and usually are very narrow. Sometimes (among the Lapps, Samoyeds, and Voguls) the snow-beater (scraper) is made of wood and is of greater width. It is used to help keep fur clothing dry.

**Copy seen:** DLC; InU.

**22863. ITKONEN, TOIVO IMMANUEL, 1891-** . Die Spiele, Unterhaltungen und Kraftproben der Lappen. (Suomalais-ugrilainen seura. Aikakauskirja, 1941, v. 51, no. 4, p. 1-133, 38 illus.) **Title tr.:** Games, amusements and contests among the Lapps.

Contains well documented and annotated description of some 110 games for children and adults, used indoors and out; also chapters on contests between magicians, on popular musical instruments, the singing of juoigos, and the telling of tales, legends and riddles. The games are grouped as follows: children's toys;

games on ice and snow; play in imitation of social customs; throwing games (balls, arrows); mechanical toys; contests of strength, and of skill (dice, boards, cards, guessing games, etc.). About 40 per cent of these games are of native origin, the rest are borrowed from neighbors. Children's toys and games and sport (e. g. lassoing) are expected to train them for adult life.

**Copy seen:** DLC; InU.

**22864. ITKONEN, TOIVO IMMANUEL, 1891-** . Ueber die lappischen Masseinheiten. (Finnisch-ugrische Forschungen, 1946. Bd. 29, p. 52-68) **Title tr.:** On the Lapp units of measurement.

In the old measuring systems of all the peoples the members of the human body played an important rôle as units of length. The Lapps have their own system of measurement for length only; those for space and weight, having been borrowed mostly from neighbors. The units for length are: a finger width, a thumb length, a palm width, the span, etc. Measurement of distance: how far a stick or a stone can be thrown by man, the distance of a shot, how far a man can see, or how far the cry of a man (or barking of a dog) can be heard, the distance of a day's travel (about 30 km. in summer and 60 km. in winter), etc. For space: big as a blueberry, or the top of a finger, as much as a mouthful of brandy, or a handful of salt; as large as a child's (or adult's) head. For weight: as much as a man (or a reindeer) can carry, a sledge load. An axe with a handle can be used as scales. A wooden stick (*tsukke*) is used as a tally for reindeer; different words are used for herds of less, or more than a thousand head. Debt is marked on a stick which is divided in two: one part kept by the debtor, the other by the creditor. Furs are counted in units of forty (in Lule Lappmark, Sweden).

**Copy seen:** DLC; InU.

**22865. ITKONEN, TOIVO IMMANUEL, 1891-** . Ueber die Wurfscähle der Lappen. (Finnisch-ugrische Forschungen, 1939-40. Bd. 26, p. 217-47, 18 illus.) **Title tr.:** On the Lapp lasso.

An important ethnological essay. Reindeer husbandry would be almost impossible without the lasso (*suoppa*) which consists of a rope with a ring at its end. It is made by women and used not only to catch reindeer, but also for bear hunting and (a smaller one) for catching birds.

Two techniques of lassoing (for long and short distance) are practiced by the Lapps with almost unbelievable precision, short-distance lassoing by women as well as men. Lapp children begin playing with a lasso at a very early age and learn its use. At eleven years the boy is given one of adult type of his own. This paper gives a very detailed description of how the lasso is made and different techniques of its use. In Fennoscandia it is a genuine Lapp invention. The Samoyeds have a similar one, of which two specimens are described. Author suggests that the lasso was probably invented before reindeer was domesticated and was used for hunting them wild.

**Copy seen:** DLC; InU.

**ITKONEN, TOIVO IMMANUEL, 1891-** , see also Äimä, F. G., & T. Itkonen. Bericht über Forschungsreise Petsamo. 1928. No. 20049.

**22866. IUBILEĬNYĬ SBORNIK POS-VASHCHENNYĬ TRIDTSATILETIŬ VELIKOĬ OKTÄBR'SKOĬ SOŤIA-LISTICHESKOĬ REVOLŬTSII.** Moskva-Leningrad, Izd. Akademii nauk SSSR, 1947. 2 v. (712 p., 836 p.) illus., plates (ports), fold. maps. **Title tr.:** Jubilee symposium celebrating the 30th anniversary of the October socialist revolution.

**Contents tr. include:** OBRUCHEV, V. A. The rôle and significance of late crustal movements on formation of relief and rare metal deposits of Siberia. v. 2, p. 22-46.

OBRUCHEV, V. A. Progress in permafrost research in the U.S.S.R. v. 2, p. 217-37.

Each of these papers appears in this Bibliography under Obruchev's name.

**Copy seen:** DLC.

**22867. IUDANOVA, O.** Chemical composition of *Calanus finmarchicus* in the Barents Sea. (Akademii nauk SSSR. Comptes rendus (Doklady), 1940. nouv. ser., v. 29, no. 3, p. 218-24, tables)

Extensive chemical analyses of this small crustacean, according to season and age, are offered. The significance of this study to the fishing industry is stressed.

**Copy seen:** DLC.

**22868. IUDANOVA, O.** Khimicheskiĭ sostav Murmanskoi sel'di. (Bŭlleten' rybnogo khozäistva, 1940, no. 7, p. 30-33, tables) **Title tr.:** Chemical composition of the Murman herring.

Report on analyses for fats, nitrogenous substances and ash of whole fish and different parts of the body. Seasonal variations in fat content of various age groups are also analyzed.

**Copy seen:** DLC.

**22869. IUDIN, IŬ. P.** O nakhozodenii *Gypsophila uralensis* Less. na Timane. (Botanicheskiĭ zhurnal SSSR, 1946. t. 31, no. 6, p. 25-26) **Title tr.:** Occurrence of *Gypsophila uralensis* in the Timan region.

An herb in this mountain tundra region of Arkhangel'skaya Oblast'.

**Copy seen:** DLC.

**22870. IURGENSON, P. B.** Èkologo-geograficheskie aspekty v pitanii lesnoi kunit'sy, i geograficheskaiä izmenchivost' èkologomorfologicheskikh adaptatsii ee zhevatel'nogo apparata. (Zoologicheskiĭ zhurnal, 1951. t. 30, vyp. 2, p. 172-85, diagrs., tables 1-5) **Title tr.:** Ecological and geographic aspects in the feeding of forest marten, and the geographic variability of ecological and morphological adaptation of its chewing apparatus.

Contains data on the food and feeding habits of the forest marten, *Martes martes*, native to various geographic zones including the tundras of Kola Peninsula, and the taiga zone of the Pechora region. The variation in the animal's food (see tables 1-3) in the different zones is discussed in relation to changes in the teeth and jaws (see tables 4-5). The study is based chiefly on investigation of the stomach contents and on skull measurement of various races of marten.

**Copy seen:** MH-Z.

**22871. IURGENSON, P. B.** O gornostaiakh Dal'nevostochnogo kraia. (Moskovskoe obshchestvo ispytatelei prirody. Bŭlleten', 1936. Otdel. biol. Novaiä seriä, t. 45, vyp. 3, p. 239-43) **Title tr.:** The ermines of the Far East.

Contains a taxonomic study of geographic races of ermines (*Mustela erminea*) of the Far East, with Russian and English diagnoses of *M. erminea karaginensis* n. subsp. from Karagin Island, Bering Sea, and critical notes on four other races, including *M. erminea baturini*, an island race inhabiting Great Shantar Island, Okhotsk Sea, *M. erminea orientalis* in the Kolyma River region and *M. erminei arctica* native to Alaska, Kamchatka Peninsula and the Anadyr' region. Summary in English.

**Copy seen:** DLC; MH-A.

**22872. IURGENSON, P. B.** Ob izmenchivosti cherepa gornostafā (*Mustela erminea* L.). (Zoologicheskii zhurnal, 1933. t. 12, vyp. 1, p. 60-68) **Title tr.:** On the cranial variability of *Mustela erminea* L.

Contains the results of a craniological study of a collection of ermines, *Mustela erminea baturini* brought home in 1925-27 from Shantar Islands, Okhotsk Sea, with tabulated biometric data (see tables 1-2). Summary in German.

**Copy seen:** DLC; MH-Z.

**22873. IURGENSON, P. B.** Ob osobennostakh arealov kunifs. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1933. Otdel. biol. Novafā seriā, t. 42, vyp. 1, p. 62-77, text map) **Title tr.:** On peculiarities of the areas of martens.

Contains a zoogeographic study of distribution of four species of the genus *Martes* in eastern Europe (northern and southern limits), data on the development of such areas and their connection with forest distribution; includes data on *Martes martes*, a forest species, occurring in the Kola Peninsula and Arkhangelsk province. Bibliography (46 items).

**Copy seen:** DLC; MH-Z.

**22874. IURINSKIĬ, TIKHON OSIPOVICH, 1860-1916.** Materialy k izucheniū flory Iakutskoi oblasti. (Tartu (Ür'ev or Dorpat) Estonia. Universitas. Hortus botanicus. Acta, 1911. t. 12, vyp. 3, p. 227-29) **Title tr.:** Materials for the flora of the Yakutsk province.

Contains a systematic list of 41 species of flowering plants from the valley of lower Kolyma River, Yakutia, collected by Mel'nikov in the summer of 1910.

**Copy seen:** DA; MH-A.

**22875. IURINSKIĬ, TIKHON OSIPOVICH, 1860-1916.** Materialy k poznaniū fauny Hemiptera Vostochnoi Sibiri. (Russkoe entomologicheskoe obozrenie, 1925. t. 19, no. 3-4, p. 229-31) **Title tr.:** Contributions to the Hemiptera fauna of eastern Siberia.

Contains a list of about 100 species of hemipters collected by the author and some other entomologists in Yakut A.S.S.R., mostly around the city of Yakutsk, with brief data on habitat; determined by A. N. Kirichenko and B. F. Oshanin. Summary in French.

**Copy seen:** DSI-M; MH-Z.

**22876. IURTSOVSKIĬ, N. S.** Sovremennafā Sibir'. [Novosibirsk] Sibkratizdat, 1928. 74, [2] p., diagrs. (K izucheniū Sibiri) **Title tr.:** Present-day Siberia.

Contains chapters on administrative and economic division of the country; cities; colonization and transport; agriculture and its prospects of development; fisheries; forest; mineral resources and industry.

**Copy seen:** DLC.

**22877. IŪZEFVICH, A. N.** K kranologii dolgan. (Akademiā nauk SSSR. Muzei antropologii i étnografii. Sbornik, 1949. t. 10, p. 312-22, tables) **Title tr.:** On the craniology of the Dolgans.

Contains description and measurements of nine Dolgan skulls (six from the Khatanga region), preserved at the Institut antropologii, arkheologii i étnografii. The question of the origin of Dolgans is stressed, and their relationship with the Tungus, also with the Yakuts is indicated.

**Copy seen:** DLC.

**22878. IŪZEPCHUK, SERGEĬ VASIL'EVICH.** Novye endemy flory Kol'skogo Poluoostrova, species novae endemicae Peninsulae Kolaensis. (Akademiā nauk SSSR. Botanicheskii institut. Botanicheskie materialy gerbariā, 1950. t. 13, p. 32-35) **Title tr.:** New endemic flora of Kola Peninsula.

Contains Latin and Russian diagnoses of *Cotoneaster cinnabarina* and *Anthyllis kuzenevae* n. spp. endemic to the Khibiny Mts.

**Copy seen:** MH-A.

**22879. IŪZEPCHUK, SERGEĬ VASIL'EVICH.** Novye manzhetki vostoka Evropejskoi chasti SSSR. Alchimillae novae orientali-europaeae. (Akademiā nauk SSSR. Botanicheskii institut. Botanicheskie materialy gerbariā, 1951. t. 14, p. 144-85) **Title tr.:** New species of *Alchemilla* of eastern European U.S.S.R.

Contains Latin and Russian diagnoses of 20 new species of herbaceous genus *Alchemilla*, inhabiting the eastern section of European Russia, including *A. glaberrimis* and *A. breviflora* n. spp. native to the Northern Ural Mts.

**Copy seen:** MH-A.

**IŪZHIN, DAVID EFREMOVICH, see Lebedenko, A. G., & D. E. IŪzhin.** Osada polfisa. 1934. No. 23705.

**22880. IVANOV, A. I.** Die sibirischen Feldlerchen. (Akademiā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1928,

pub. 1929. t. 29, p. 279-87) **Title tr.:** Siberian meadow-larks.

*Contains* a critical revision of seven Siberian forms (one new) of meadow-lark (*Alauda arvensis*), including *A. arvensis buztoni* native to the Lena River region and *A. arvensis pekinensis* from Chukotsk Peninsula, Kamchatka and Komandorskiye Islands.

**Copy seen:** DLC: MH-Z.

**22881. IVANOV, A. V.** Graficheskiĭ metod opredeleniia koëffitsienta peregresheniia, osnovannyĭ na primenenii,  $\delta$  s-krivyykh. (Problemy Arktiki, 1944, pub. 1945, no. 1, p. 64-66) **Title tr.:** Graphic method for determination of coefficient of mixing, based on the application of  $\delta$  of s-curves.

On the basis of I. P. Jacobsen's investigations, *Eine graphische Methode zur Bestimmungs-koeffizienten im Meere*, the author proposes a mathematical solution of the problem of mixing water masses when more than three water masses are mixed. Bibliography.

**Copy seen:** DGS.

**22882. IVANOV, A. V.** Novye Pogonophora dal'nevostochnykh moreĭ. (Zoologicheskii zhurnal, 1952. t. 31, vyp. 3, p. 372-91, illus.) **Title tr.:** New Pogonophora of the Far Eastern seas.

*Contains* a sketch of the external morphology of marine worms of the class Pogonophora and diagnoses of four new genera and five new species, all native to Bering Sea.

**Copy seen:** MH-Z.

**22883. IVANOV, IVAN MARKELLOVICH.** Nekotorye dannye o kolebaniiaĭkh urovnia Severnogo polarnogo basseina. (Zemlevedenie, 1933. t. 35, vyp. 4, p. 364-68, illus.) **Title tr.:** Some data on the fluctuation of the level of the Arctic Basin.

*Contains* a study of boreal transgression based on observations of the fluctuation of shore lines on Novaya Zemlya, Severnaya Zemlya, Spitsbergen and Franz Josef Land, and on the finding of the remains of whales and fossil molluscs, with a table of distribution of post-Pliocene molluscs on the islands of Arctic Basin (Europe and Asia).

**Copy seen:** NNA.

**22884. IVANOV, IVAN MARKELLOVICH.** Promyslovye raboty issledovatel'skoi stantsii na Zemle Frantsa-Iosifa v 1930-31 gg. (Zemlevedenie 1933. t. 35, vyp. 4, p. 363-64) **Title tr.:** Work of

the research station on Franz Josef Land in 1930-31, on commercial animals.

*Contains* notes on the activity of the Industrial Research Station on Hooker Island, Franz Josef Land, data on number of animals killed (polar bears, walrus, arctic hares, seals), the best time for hunting and fishing and the prospects of the game animal industry.

**Copy seen:** NN.

**22885. IVANOV, S. V.** Chukotsko-ëskimosskaia graviura na kosti. (Sovetskaiâ étnografia, 1949, no. 4, p. 107-124, illus.) **Title tr.:** Chukchi-Eskimo engraving in bone.

*Contains* a history of bone carving of the Eskimos and Chukchis: its traditional motifs (based on wildlife and hunting), styles, tools, technique, etc.; developments under the Soviet régime: new tools and styles, changes in subject matter with the introduction of social and political themes; effect of the Great Patriotic War; outstanding engravers, etc.

**Copy seen:** DLC.

**22886. IVANOV, S. V.** Mamont v iskusstve narodov Sibiri. (Akademiia nauk SSSR. Muzei antropologii i étnografii. Sbornik, 1949. t. 11, p. 133-54, illus., 5 tables) **Title tr.:** The mammoth in the art of the Siberian peoples.

*Contains* discussion (with extensive reference to the literature, of how the various Siberian peoples imagine the shape of the mammoth and how they try to represent it in drawing or sculpture. Specimens of Yukaghir, Tungus, Ostyak, Ostyak-Samoyed art with the mammoth motif are presented and discussed.

**Copy seen:** DLC.

**22887. IVANOV, S. V.** Materialy ornamenta k probleme kul'turno-istoricheskikh svyazei khandtov i mansi. (Sovetskaiâ étnografiia, 1952, no. 3, p. 85-99, 9 illus.) **Title tr.:** Material on ornament as a contribution toward the problem of cultural-historical relations of the Khanty (Ostyaks) and Mansy (Voguls).

*Contains* description of Ob'-Ugrian ornaments which are divided into five types and compared with ornaments of other Finno-Ugrian peoples and Samoyeds. Some ornaments are several hundred years old and have wide dissemination. The prevailing designs are geometric, but motifs from nature (birds, trees, etc.) are also represented.

**Copy seen:** DLC.

**22888. IVANOV, S. V.** Medved' v religioznom i dekorativnom iskusstve narodnostei Amura. (In: Akademiia nauk SSSR. Institut étnografii. Pamiat V. G. Bogoraza 1865-1936, pub. 1937, p. 1-44) *Title tr.:* The bear in the religious and decorative art of Amur peoples.

The Gilyaks, Ulchis, and Goldis have in their wood sculptures the most extensive art representations of the bear among all the peoples of northern Eurasia. These depict spirits of (a) hosts of places, and bears who promote hunting, and fishing, (b) patrons and helpers of shamans, and (c) diseases. A concise description of bear festivals is included, with emphasis on their matriarchal origin. On ritual dishes, circumstances of bear killing are depicted. Also the interlaced spiral-ribbon ornamentation on wood and bone originates in a pictographic representation of a bear bound to a post ready for killing at the end of the feast. The Amur nationalities have four kinds of such "bear carving" ornaments.

*Copy seen:* DLC.

**22889. IVANOV, S. V.** O znachenii dvukh unikal'nykh zhenskikh statuétok amerikanskikh éskimosov. (Akademiia nauk SSSR. Muzei antropologii i étnografii. Sbornik, 1949. t. 11, p. 162-70, 2 illus.) *Title tr.:* On the significance of two unique female statuettes of the American Eskimos.

Contains an explanation of two figurines in the Muzei antropologii i étnografii, collected from the Norton Sound region of Alaska in the early 19th century. They are carved of bone, and have a string of human hair on the head: the soul is believed to live in hair, hence the figurine preserves the dead man's soul until he is reborn as another man. Similar meaning is attributed to the dolls of Eskimos and Chukchis.

*Copy seen:* DLC.

**22890. IVANOV, S. V.** Realisticheskie osnovy iskusstva tunguso-man'chzhurov. (Akademiia nauk SSSR. Institut étnografii. Kratkie soobshcheniia, 1949. t. 5, p. 86-90) *Title tr.:* The realistic basis of Tungus-Manchu art.

Contains an account of Tungus paintings and silhouettes cut from birch bark or metal, representing animals, birds and fish, also human figures, all of a realistic character. The Tungus influence is obvious in the art of all peoples in the Amur region.

*Copy seen:* DSI.

**22891. IVANOV, S. V.** Sidiachie cheiovecheskie figurki v skulpture aleutov. (Akademiia nauk SSSR. Muzei antropologii i étnografii. Sbornik, 1949. t. 12, p. 194-212, 9 illus.) *Title tr.:* Aleut sculptured statuettes of human seated figures.

Contains description of six small (five wood, one bone) carvings in the Moscow and Leningrad museums; they were not idols nor toys for children, but intended as temporary abodes for the souls of deceased persons.

*Copy seen:* DLC.

**22892. IVANOV, VLADIMIR IVANOVICH.** Osnovnye zadachi na lesnom fronte Severa; doklad na sobranii Kraevogo arkhangel'skogo i maimaksanskogo partaktivna sovmestno s kommunistami-khozdistvennikami, 10/IX-1931 g. Arkhangel'sk, Severnoe kraevoe izd-vo, 1931. 39 p. *Title tr.:* Main tasks on the forest-front of the North; report before the meeting of the Arkhangel'sk and Maimaksansk Regional Partactiv and the Communist-managers, Sept. 10, 1931.

Contains brief account on the state of forests in the area; the problem of mechanization, work organization, flottage and reforestation.

*Copy seen:* DLC.

**22893. IVANOVSKIĬ, A. A.** Ob antropologicheskom sostavie naseleniia Rossii. Moskva, 1904. vi, 288 col., maps. (Obschestvo liubiteli estestvoznaniia, antropologii i étnografii. Izvestiia, t. 105. Trudy antropologicheskago otdiela, t. 22) *Title tr.:* On the anthropological composition of inhabitants of Russia.

Contains description of peoples living in the Russian Empire, based on author's field work (in Caucasus, 1893-96) and material from other investigators or the literature. The work is divided into chapters according to the features of the human body (color of hair and eyes, stature, head index, etc.) and includes scores of anthropological measurements. In the final chapter the author tries to give an anthropological classification of Russia's inhabitants, and briefly characterizes several ethnic types, among them the Zyryans (p. 200), Lapps (p. 201), and Yakuts (p. 209-210); the Samoyeds are classified with the Mongolic group and Ostyaks considered as a genuine type. An extensive bibliography includes (among others) anthropological works on the Voguls, Zyryans, Kamchadals, Lapps, Ostyaks, Samoyeds, Soyots, Telengits

(i. e. Teleuts or Kara-Kalmucks), Tungus, Finns, Chukchis, and Yakuts.

**Copy seen:** DSI.

**22894. IVANOVSKIĬ, AL.** Eniseĭskie inorodtsy; po materialam K. I. Goroshchenko. (Antropologicheskii zhurnal, 1907, no. 1-2, p. 165-223, 15 illus.) **Title tr.:** The natives of the Yenisey, from material of K. I. Goroshchenko.

Contains general notes on the Soyots, a Samoyedic group (p. 172-73), with an evaluation and comparison of anthropometric measurements of 92 Soyots, made by K. I. Goroshchenko in 1896-1902.

**Copy seen:** DSI.

**22895. IVANOVSKIĬ, ALEKSĬĬ OSIPOVICH, 1863-1903.** Dmitriĭ Nikolaevich Anuchin. (Antropologicheskii zhurnal, 1900, no. 1, p. 1-24)

Contains a biographical sketch of this outstanding Russian anthropologist and a list of about 200 of his works published at this stage of his career.

**Copy seen:** DLC.

**22896. IVANOVSKIĬ, MIKHAIL IGNAT'EVICH.** SSSR po raĭonam, Severo-Vostochnaĭa oblast'. Moskva, Gos. izd-vo, 1926. **Title tr.:** The U.S.S.R. according to regions, the northeastern district.

A geographical outline of the district north (roughly) of 60° N. lat. between the White Sea and Ob' River; followed by descriptions and data on population, agriculture, forestry and timber industry, communication and trade.

**Copy seen:** DLC.

**22897. IVANTISHIN, M. N.** K voprosu o geokhimicheskoi zonal'nosti v raspredelenii metallicheskhkh elementov na territorii Dal'nevostochnogo kraĭa. (Akademiĭa nauk SSSR. Comptes rendus (Doklady), 1935. nouv. ser., v. 2, no. 8-9, p. 572-80) **Title tr.:** On the geochemical zonality in distribution of metallic elements on the territory of the Far Eastern region.

Topography and description of ore zones under exploitation. Discussion of their regular distribution and genesis. Translation in German, p. 576-80.

**Copy seen:** DLC.

**22898. IVANTISHIN, M. N.** On the primary regional zoning of ore deposits of the northern part of the East-Asiatic Pacific folded region. (Akademiĭa nauk

SSSR. Comptes rendus (Doklady), 1945. nouv. ser., v. 48, no. 4, p. 270-73, map)

"Within the northern part of the east-asiatic Pacific folded region, U.S.S.R., are three ore areas, genetically related to Mesozoic intrusions: the Transbaikalian-Mongolian, the Amur-Maritime, and the Verkhoyansk-Chukotsk. The ore deposits of the central subgeotectonic zones, on the one hand, and of the peripheral subgeosynclinal zones, on the other, are characterized by high concentrations of ore minerals in typical associations."—Geological Society of America, *Bibliography and index of geology*, 1945-46, v. 11, p. 154.

**Copy seen:** DLC.

**22899. IVERSEN, JOHANNES.** Über Isoetes in China und Japan. (Dansk botanisk arkiv, 1926-28, pub. 1928. Bd. 5, nr. 23, p. 1-4, illus.) **Title tr.:** On Isoetes in China and Japan.

Contains a key and critical notes on four species of pteridophytous genus *Isoetes* occurring in Japan and China, including *I. echinospora*, an aquatic herb native to northern Japan, Kurile Islands and Kamchatka.

**Copy seen:** DA; MH-A.

**IVIE, WILTON,** see Chamberlin, R. V., & W. Ivie. Spiders of Alaska. 1947. No. 21147.

**22900. JAAKKOLA, K.** Maisteri K. Jaakkolan matkakertomus Seuran vuosisäiväksi 1885. (Suomalais-ugrilainen seura. Aikakauskirja, 1886. v. 1, p. 95-102) **Title tr.:** Master K. Jaakkola's travel report for the anniversary of the Society in 1885.

Accounts on the author's second trip to the Jemtland Lapps, both in Sweden and in Norway in summer 1885. The dialect spoken in Swedish Jemtland, and in the neighboring part of Norway is essentially the same.

**Copy seen:** DLC; InU.

**22901. JAAKKOLA, K.** Maisteri K. Jaakkolan matkakertomus Suomalais-ugrilaiselle Seuralle 17 p. syyskuuta 1884. (Suomalais-ugrilainen seura. Aikakauskirja, 1886. v. 1, p. 90-94) **Title tr.:** Master K. Jaakkola's travel report to the Finno-Ugric Society on September 17, 1884.

Account of the author's two-month trip in summer 1884 to the Jemtland Lapps in Sweden, to study the language and observe customs.

**Copy seen:** DLC; InU.

**22902. JAAMAA, OSSIAN.** Petsamon pinta-ala. (Maanmittaus, 1930. v. 5, no. 2, p. 95-98, sketch map) **Title tr.:** The surface area of Petsamo.

**Contains** data on the surface area of the Petsamo region, determined to be 62 sq. km. less than the 11,036 sq. km. estimate of 1923, on the basis of a map 1:20,000 completed during 1923-1929. Includes coordinates established for six places on the Finnish-Russian and Finnish-Norwegian border in the far North.

**Copy seen:** DLC.

**22903. JAASUND, ERIK.** Marine algae from northern Norway I. (Botaniska notiser, 1951, häfte 2, p. 128-42, illus.)

**Contains** descriptions of ten species of marine algae collected by the author in the vicinity of Tromsø, Norway, during Aug. 1949, including diagnosis of *Myrionema irregulare*, *M. furcatum*, *Streblonema polycladum* and *Halonema subsimplex* n. gen. n. sp.; bibliography (23 items).

**Copy seen:** DLC; MH-Z.

**22904. JACKMAN, ALBERT H.** Landforms near Big Delta, Alaska. (Geological Society of America. Bulletin, Dec. 1951. v. 62, p. 1553)

**Abstract** of paper presented at the meeting of sect. E, American Association for Advancement of Science, Philadelphia, Dec. 27, 28, 1951.

**Copy seen:** DGS.

**22905. JACOBI, ARNOLD, 1870-** Das Rentier; eine zoologische Monographie der Gattung *Rangifer*. Leipzig, Akademische Verlagsgesellschaft, 1931. 1 p. l., vii, 264 p., illus., 6 double plates. (Zoologischer Anzeiger. Bd. 96, Ergänzungsband) **Title tr.:** The reindeer, a zoological monograph of the genus *Rangifer*.

**Exhaustive** treatise on old world reindeer and new world caribou: an historical account of the animal, description of the anatomy, skeleton and dentition, and a classification of forms arranged differently from previous treatment of taxonomy. Bibliography (250 items). Reviewed in *Annals and magazine of natural history*, ser. 10, v. 10, p. 216.

**Copy seen:** DLC.

**22906. JACOBIN, LOUIS, 1889-** Tourists & sportsmen's guide to Alaska and the Yukon; the authentic handbook of the North. 3d ed. [Los Angeles, Published by Wetzel Pub. Co. for Guide to Alaska Co., Juneau, 1948] 208 p., illus. (part col.) maps.

The guide-book contains information about: transportation including airways, roads, Alaska Highway, and mileage chart; hunting and fishing; game laws; guide districts and registered guides; hints to photographers; description of the cities, and "colorful villages", Mt. McKinley National Park, native arts and crafts, etc.

**Copy seen:** DLC.

**22907. JACOBS, RUDOLF.** Menschen an der weissen Grenze. Begegnungen im hohen Norden. Stuttgart, Erich Rothacker, 1947. 186 p. illus., maps.

**Title tr.:** People on the white border. Encounters in the high North.

**Contains** impressions of places in northern Fennoscandia (Bergen, Dronheim, Kirkenes, Bodø, Svolvær, Narvik, Tromsø, Hammerfest, etc.) and Spitsbergen, visited during trips on small vessels; descriptions of fishermen, hunters, trappers, sailors, and their experiences; the tundra of Lapland and life of the Lapps.

**Copy seen:** DLC.

**22908. JACOBSEN, A.** Litt om selfangsten og dens framtid. (Polarboken, 1949, p. 58-64). **Title tr.:** Some facts about sealing and its future.

**An** historical survey of sealing from the 18th century to World War II is presented. During 1921-30, the Russians caught 1,152,650 seals and the Norwegians 1,824,950 seals. In 1946, 26,912 animals (mostly seals) were brought to Tromsø; these yielded 11,476 pelts. In 1948, the number rose to 114,566 with a yield of 24,491 pelts. The Jan Mayen seals are still under protection, but a limited exploitation of the sealing possibilities there should be permitted in the near future. The Newfoundland and Labrador fields can be expanded, but their possibilities are by no means unlimited. The formation of a seal council is suggested to further the protection of the world's seal supply.

**Copy seen:** CaMAL.

**JACOBSEN, IVAN A.,** see Gullers, K. W., & S. Hoel. Norway. 1951 No. 22274.

**22909. JACOBSEN, N. KINGO.** Arktiske problemstillinger i relation til besejlingen. (Geografisk tidsskrift, 1951. Bd. 51, p. 94-133, sketch maps) **Title tr.:** Arctic problems in relation to navigation.

**Contains** an account of the salient meteorologic, oceanographic, and geographic features of the arctic regions

which combine to produce the various types of sea ice and control their occurrence and distribution in the Arctic. Includes a survey of regional ice conditions along the Northeast and Northwest Passages and subsidiary routes, and brief remarks on the present-day research and ice scouting being carried out by various countries. Bibliography (42 items). **Copy seen:** DGS.

**22910. JACOBSEN, N. KINGO, and P. P. SVEISTRUP.** Erhverv og kultur langs Polarkredsen. København, Munksgaard, 1950. 140 p. illus. maps. (Grønlandske selskab) **Title tr.:** Trade and culture along the Arctic Circle.

*Contains a summary of economic and cultural conditions in the polar region (excepting Greenland, not described because of the already numerous publications in Danish on conditions there). Chapter 1 describes the relations between Europeans and Eskimos in Labrador; chap. 2, the economic and cultural conditions of the Canadian Eskimos, and chap. 3 those of the Eskimos of Alaska. Chap. 4 treats the material culture of the peoples of the arctic regions of the U.S.S.R. Finally the fisheries of northern Norway are described in chapter 5.*

**Copy seen:** CaMAI.

**22911. JACOBSON, HELMUT.** Auf Sammelfahrt in Petsamo-Lappland. (Natur und Volk, Sept. 1941. Bd. 71, p. 431-38, illus.) **Title tr.:** On a collecting trip in Petsamo Lapland.

Description of the climatic and vegetation zones of the Petsamo (Pechenga) region, and notes on its villages, people, and ants (the object of the author's collecting trip, 1939).

**Copy seen:** DGS.

**22912. JACOBSON, HELMUT.** Beitrag zur Ameisenfauna Lapplands. (Zoologischer Anzeiger, Feb. 15, 1940. Bd. 129, p. 171-76) **Title tr.:** Contribution to the ant fauna of Lapland.

Description in brief of the vegetative associations and plant regions of the Petsamo and Rybachiy Peninsula areas, with a list of ant species and their zones. Bibliography (9 items).

**Copy seen:** DLC; DSI-M.

**22913. JÄÄSKELÄINEN, VILJO.** Kuorjätteiden osallisuus erään tulva-  
saaren muodostumiseen Kemijoen.  
(Terra, 1924. v. 36, no. 2-3, p. 158-65,

illus., diagrs.) **Title tr.:** The role of bark and wood remains in the formation of alluvial flood islands in the Kemi River.

*Contains data on the building-up of three islands in the Kemi River (flowing west and south into Gulf of Bothnia at 65°47'N. 24°30'E.). Excavations showed alternate layers of sand and bark, the latter having a large share in the islands' development. This waste material was carried downstream largely from logging and paper-making operations in the river's upper reaches.*

**Copy seen:** DLC.

**22914. JÄNTTI, AUGUST.** Suomen laidunolot. Helsinki, 1947. 255 p., maps, tables, diagrs. (Acta forestalia fennica, v. 53, no. 2) **Title tr.:** Pasture conditions in Finland.

*Contains a report on the first investigation of this kind made in 1938 and based on uniform, primary statistical material. Consecutive sections deal with: method of the investigation; area of various kinds of pastures; intensity of pastures and pasture; the total grazing time and its distribution over the various kinds of pastures; distribution of grazing time according to the various kinds of animals; pasturage supplied from the farms' own resources; fences, etc. The study includes Finnish Lapland. Bibliography (over 120 items). Summary in German.*

**Copy seen:** DA.

**22915. JÄRNEFELT, H.** Suomen järviympöien alueellinen levinneisyys. (Terra, 1936. v. 48, no. 1, p. 1-10, maps) **Title tr.:** The regional distribution of lake types in Finland.

*Contains discussion on the distinct regionalization in distribution of types of water bodies and on the occurrence (indicated on maps) of various lake types: oligotrophic, oligohumic, meso- and polyhumic, oligotrophic lakes predominating in northern Finland.*

**Copy seen:** DLC.

**22916. JÄRNEFELT, H., and W. RY LOV.** Über das Vorkommen von *Acanthodiptomus tibetanus* (Daday) in Nordfinland nebst einer kompletierenden Beschreibung dieser Art. (Suomalainen eläin-ja kasvitieteellinen seura Vanamo. Eläintieteellisiä julkaisuja. Annales zoologici, 1934-1935. v. 2, no. 2, p. 3-9, illus.) **Title tr.:** On the occurrence of *Acanthodiptomus tibetanus* (Daday) in

north Finland with a complete description of this species.

Description of this small crustacean from Lake Pilgajaur (69°25' N.) and its zoogeography. Description of the lake and its plankton are included.

**Copy seen:** DLC.

**22917. JÄRNEFELT, H.** Zur Limnologie einiger Gewässer Finnlands XI. Petsamo. (Suomalainen eläin- ja kasvitieteellinen seura vanamo. Julkaisuja, 1934. v. 14, no. 10, p. 172-347, illus., tables, diagrs., map) **Title tr.:** Contributions to the limnology of some waters of Finland, XI. Petsamo.

Deals with the location, physical and chemical properties, plankton and bottom fauna of lakes in this area. Bibliography (16 items). Summary in Finnish.

**Copy seen:** DLC.

**22918. JÄRVINEN, A. E.** Perä-Pohjolan metsien tulevaisuus. (Metsä-taloudellinen aikakauslehti (Finska forstföreningen), 1951. v. 6, p. 177-80) **Title tr.:** The future of the forests in the far North.

Describes the condition and current utilization of the forests of northern Finland in comparison with those of other sections of the country. Noting the relatively high proportion of virgin forest in the North, author suggests immediate and fuller exploitation of resources there to prevent further loss by trees dying from over-age. The main deterrent from utilization of northern forests by the logging industry, is the difficulty of transport to industrial centers.

**Copy seen:** DA.

**22919. JAGGAR, THOMAS AUGUSTUS, 1871-** Volcanoes declare war; logistics and strategy of Pacific volcano science. Honolulu, Paradise of the Pacific, Ltd., 1945. iii, 166 p., illus., 39 plates, maps.

Contains sections on Kamchatka, p. 77-80, Aleutian Islands and southern Alaska, p. 81-103, with maps.

**Copy seen:** DLC.

**22920. JAHN, ALFRED.** O niektórych formach gleb strukturalnych Grenlandii Zachodniej. (Przegląd geograficzny (Warsaw), 1946. v. 20, p. 73-89 incl. illus., table, diagrs.) **Title tr.:** Some forms of structural soil markings in West Greenland.

"All varieties of structural soil markings are the result of frost action on the ground. The cause of the difference in structural

forms is due to the difference in mechanical composition of soil materials. Fissure polygons are described and their origin explained by various theories. Objections are raised to Gripp's theory of the origin of structural forms by the differences of temperatures, on the ground that tundra soil at Arfersiorfik has a temperature of 4° C. in July and Aug. at a depth 30-45 cm. so that the upper layer of soil cannot be active during the summer. Measurements of temperatures in deeper horizontal profiles under the polygonal formations at a depth of 33-87 cm. are tabulated to show the non-existence of convection currents."—SIPRE.

**Copy seen:** DLC.

**22921. JAHN, ALFRED.** Przyczynęk do znajomości stożków usypiskowych w krajach polarnych. (Przegląd geograficzny (Warsaw), 1947. v. 21, p. 1-10 incl. illus., diagr.) **Title tr.:** Contribution to the knowledge of talus in polar regions.

"Frost and frequent temperature changes near 0° C. produce talus in high mountain and polar regions. The profile of a talus in Arfersiorfik fiord was investigated during the 1937 Polish West Greenland Expedition. Four parts are distinguished: a base surface of inclination less than 15°, a medial slope with an inclination of 15°, the main part with a slope steeper than 15°, and a summit. The medial slope is more significant for talus in polar regions, being a product of rain and meltwater deposits, than for talus in temperature zones. Permafrost is the primary factor in the solifluction process."—SIPRE. Summary in English.

**Copy seen:** DLC.

**JAKOWLEW, ALEXANDRO, see**  
**IAKOVLEV, ALEKSANDR IVANOVICH.**

**22922. JALAS, JAAKKO.** Kangasajuruohon (*Thymus serpyllum* L.; Fr.) pohjoismaista muodoista. (Luonnon tutkija, 1947. v. 51, no. 3, p. 86-92, illus., diagrs.) **Title tr.:** On the forms of *Thymus serpyllum* (L.; Fr.) in the Scandinavian heath forests.

Contains data on the characteristics of wild thyme, *Thymus serpyllum* ssp. *augustifolius*, ssp. *tanäensis* and ssp. *arcticus*, *marschallianus* and *pulegioides*. Of interest is the information on *Th. serpyllum* ssp. *tanäensis* and ssp. *arcticus*, the latter's southern spread being attributed to effects of the ice age. Two

maps show distribution of these flora in Scandinavia and Kola Peninsula. Bibliography (10 items).

**Copy seen:** DLC.

**22923. JALAS, JAAKKO.** Zur Systematik und Verbreitung der fenno-skandischen Formen der Kollektivart *Thymus serpyllum* L., em Fr. Helsingforsiae, 1947. 92 p., illus., plates, maps. (Acta botanica fennica, 39) **Title tr.:** The systematics and distribution of the Fennoscandian form of the collective species *Thymus serpyllum* L. em. Fr.

This monograph on the wild thyme includes arctic areas where the plant is common. It contains accounts of the material; the main varieties occurring in Fennoscandia; discussion on the classification of the plant and an account of its distribution in Fennoscandia. Bibliography (100 items). **Copy seen:** DLC.

**22924. JALAVA, MATTI.** Suomalaisen männyn, kuusen, koivun ja haavan lujuusominaisuuksista. Helsinki, 1945. 56 p., illus., tables, diagrs., figs. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 33:3) **Title tr.:** Strength properties of Finnish pine, spruce, birch and aspen.

Contains results of tests on pine, spruce, and birch with comparative data for Lapland and other sections of Finland. Summary in English.

**Copy seen:** DLC.

**JALAVA, MATTI,** see also Ilvessalo, L., & M. Jalava. Maapallon metsävarat. 1930. No. 22802.

**JANNES, ELLY,** see Brick, A. R. Nomads of North. 1950. No. 20893.

**JAMES, ELLY,** see also Brick, A. R. Vandrang by. 1950. No. 20894.

**22925. JANSSON, CHARLES ANTON,** 1880-. Abisko nationalpark i coleopterologiskt hänseende. (Entomologisk tidskrift, 1914. Årg. 35, häft. 1-2, p. 101-105) **Title tr.:** Abisko National Park and its coleopters.

Contains a general sketch of the coleopterous fauna of the Abisko National Park in Torne Lappmark, northern Sweden, with scattered notes on coleopters native to that region.

**Copy seen:** DLC; MH-Z.

**22926. JANSSON, CHARLES ANTON,** 1880-. *Argynnis frigga* Thbg. var. *improba* Btlr. funnen i Sverige. (Ento-

mologisk tidskrift, 1914. Årg. 35, häft. 1-2, p. 106-107) **Title tr.:** *Argynnis frigga* Thbg. var. *improba* Btlr. found in Sweden.

Contains report of the find of a butterfly, *Argynnis frigga* var. *improba* in the Abisko region of Torne Lappmark, with some critical notes.

**Copy seen:** DLC; MH-A.

**22927. JANSSON, CHARLES ANTON,** 1880-. Bidrag till kännedom om den svenska skalbaggsfaunan. (Entomologisk tidskrift, 1915. Årg. 36, häft. 2-4, p. 202-219) **Title tr.:** A contribution to the knowledge of Swedish Coleoptera fauna.

Contains a systematic list of about 300 beetles (Coleoptera) of Sweden, with localities and occasional notes; 23 species and varieties are new to the fauna of Sweden, including *Microglossa nidicala* and *Dorytomus lapponicus*, native to Torne Lappmark.

**Copy seen:** DLC; MH-Z.

**22928. JANSSON, CHARLES ANTON,** 1880-. *Bledius lativentris* nov. sp. (Col. Staphylinidae). (Entomologisk tidskrift, 1928. Årg. 49, häft. 4, p. 214-15, illus.)

Contains a German description of a new species of rove beetle, *Bledius lativentris* n. sp. found in the Abisko region of Swedish Lapland.

**Copy seen:** DLC; MH-Z.

**22929. JANSSON, CHARLES ANTON,** 1880-. Coleopterologiska bidrag, 4-5. (Entomologisk tidskrift, 1921. Årg. 42, häft. 3-4, p. 175-210) **Title tr.:** Coleopterological contributions, 4-5.

Contains (in pt. 4) a systematic list of about 400 beetles from various regions of Sweden, including a few from Swedish Lapland, with localities and occasional critical notes. Pt. 5 deals with three closely related and possibly identical species of the genus *Salpingus* (*Rabocerus*): *S. foveolatus*, *S. gabrieli* and *S. mutilatus*, the first occurring in Torne Lappmark. Pts. 1-3 published in this same journal in 1920 do not contain arctic material.

**Copy seen:** DLC; MH-Z.

**22930. JANSSON, CHARLES ANTON,** 1880-. Coleopterologiska bidrag, 21-22. (Entomologisk tidskrift, 1930. Årg. 51, häft. 3-4, p. 160-72) **Title tr.:** Coleopterological contributions, 21-22.

Contains a list of 42 beetles new to the coleopterous fauna of Sweden or other-

wise interesting, including at least 20 species native to Swedish Lapland and northern regions of Norway and Finland, with data on habitat and distribution in Scandinavia. **Copy seen:** DA; MH-Z.

**22931. JANSSON, CHARLES ANTON, 1880- .** Coleopterologiska bidrag, 27. *Philonthus lederi* Epp., en ostsibirisk skogsart funnen i Lappland. (Entomologisk tidskrift, 1943. Årg. 64, häft. 1-2, p. 69-73, illus.) **Title tr.:** Coleopterological contributions, 27. *Philonthus lederi* Epp., an eastern Siberian species found in Lapland.

**Contains** a brief description of male and female specimens of a beetle, *Philonthus lederi*, previously known from the Lake Baykal region and Kamchatka Peninsula, found in the forest belt at Pälkem, near Gällivare, northern Lapland, by Dr. E. Wirén. Summary in German. **Copy seen:** DA; MH-Z.

**22932. JANSSON, CHARLES ANTON, 1880- , and O. SJÖBERG.** För Sverige nya Coleoptera. (Notulae entomologicae, 1934. v. 14, no. 3, p. 87-96; no. 4, p. 97-98, illus.) **Title tr.:** Coleoptera new to Sweden.

**Contains** descriptive notes on 26 beetles new to the fauna of Sweden, including *Atheta (Metaxya) melanocera* found in Abisko, Torne Lappmark.

**Copy seen:** DLC; MH-Z.

**22933. JANSSON, CHARLES ANTON, 1880- .** Förteckning över Ölands, Gotlands, Fåröns och Gotska Sandöns guldsteklar och gaddsteklar. (Entomologisk tidskrift, 1934. Årg. 55, häft. 3-4, p. 286-98) **Title tr.:** List of the "gold" hymenopters and the "stinging" hymenopters from Öland, Gotland, Fårön and Gotska Sandön.

**Contains** a systematic list of about 250 species of Hymenoptera aculeata and tubilifera from the regions mentioned in the title with data on their distribution in Sweden; includes many species spreading to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**22934. JANSSON, CHARLES ANTON, 1880- , and O. SJÖBERG.** *Leptura inexpectata* nov. sp. (Col. Cerambycidae). (Entomologisk tidskrift, 1928. Årg. 49, häft. 4, p. 209-213)

**Contains** a table for the determination of four related cerambycids, including *Leptura inexpectata* n. sp., a beetle distributed in Sweden from Sorsele,

Lapland to Småland and probably in all Finland; with critical notes and data on distribution of related species; text in German. **Copy seen:** DLC; MH-Z.

**22935. JANSSON, CHARLES ANTON, 1880- , and O. SJÖBERG.** *Proteinus apicidens* nov. sp. (Col. Staphylinidae). (Entomologisk tidskrift, 1929. Årg. 50, häft. 3-4, p. 212-13, plate 1)

**Contains** a diagnosis of *Proteinus apicidens*, a new species of rove beetle found by L. Brundin in the Abisko region of Torne Lappmark in Sweden in 1928, and comparison with *P. altaicus*, another related species. (Text in German)

**Copy seen:** DA; OU.

**22936. JANSSON, CHARLES ANTON, 1880- .** Studier över svenska chalcidider, 3. Kläckta arter. (Entomologisk tidskrift, 1952. Årg. 73, häft. 3-4, p. 178-82) **Title tr.:** Studies on Swedish chalcids, 3. Cultivated species.

**Contents include** (p. 178-80) data on the biology *Schizonotus sieboldi*, a species of chalcid reared from *Melasoma populi* (willow leaf beetle) causing an infestation of willows and found in Muuddus region in Torne Lappmark. This tachnid fly is very useful in the control of willow diseases, as an external parasite of *Melasoma*. Summary in German.

**Copy seen:** MH-Z.

**22937. JANSSON, CHARLES ANTON, 1880- .** Studier över svenska prototrupider, 2-3. (Entomologisk tidskrift, 1944. Årg. 65, häft. 3-4, p. 190-98 illus.) **Title tr.:** Studies of Swedish Prototrupidae, 2-3.

**Contains** a critical comparative study of the types *Ceraphron ramicornis* Boh. and *C. ramicornis* Zett. (from Swedish Lapland) found to be identical and given the name *Lygocerus ramicornis*, and a table for the determination of the species of the genus *Lygocerus*; pt. 1 (1942) does not include arctic material. Summary in German.

**Copy seen:** DA; MH-Z.

**22938. JANSSON, CHARLES ANTON, 1880- .** Sveriges *Aelia*-arter. (Entomologisk tidskrift, 1921. Årg. 42, häft. 3-4, p. 255-56) **Title tr.:** Swedish *Aelia* species.

**Contains** data on the geographic distribution of Swedish species of hemipterous genus *Aelia*, including *A. acuminata*, occurring in Swedish Lapland.

**Copy seen:** DLC; MH-Z.

**22939. JANSSON, CHARLES ANTON, 1880-** . Zwei neue *Atheta*-Arten aus Schwedisch Lappland. (Entomologisk tidskrift, 1929. Årg. 50, häft. 3-4, p. 206-211, illus.) **Title tr.:** Two new *Atheta* species from Swedish Lapland.

Contains diagnoses of two rove beetles, *Atheta (Oreostiba) brundini* and *A. (Philhygra) scerdentata* n. spp. collected by L. Brundin in the Abisko region of Torne Lappmark, and a comparison with related species.

**Copy seen:** DA; OU.

**22940. JANSSON, WALD.** Routakysymys rautatiellä. (Teknillinen aikauslehti, Jan. 1939. v. 29, no. 1, p. 13-20, illus., diagrs.) **Title tr.:** The ground-freezing problem on railroads.

Contains data on the effects of freezing weather on railroad ties, rails and beds in Finland. "The formation of deep ground frost under railroads is attributed to the high moisture content of the soil, to the removal of the snow cover and to the traffic. Ground frost does not occur where the soil grain is less than 0.1 mm or the capillarity more than 1.25 m. The effects of ground frost usually were combated by placing temporary wooden wedges between the rails and the cross-ties. The newer methods of control consist of surface and sub-drainage to remove excess water and the substitution of soils subject to frost action with insulating layers of cinders, moss litter, peat and gravel. Recommendations for depths of drainage pipes and insulating soils are given. Raising of the embankment by ballasting is feasible where the freezing is not too severe. Tests have shown that frost action is reduced 50 per cent when 33 per cent more surface gravel is added to the top layer."—SIPRE. Costs of various measures per running meter are compared. Summary in English.

**Copy seen:** DLC.

**22941. JAPAN. CENTRAL METEOROLOGICAL OBSERVATORY.** Study of the physical aspects of ice formation. Tokyo? 1950. 57 p., illus., tables. (*Its*: Report 31, no. 3) Text in Japanese.

"Meteorological conditions for the formation of ice are treated: temperature, wind speed, humidity, cloud drop size and distribution, etc. The various types of ice are described and discussed from point of view of formation, growth, etc. Section devoted to thermal aspects of icing, and another to microscopic examinations of the crystalline forms."—

*Meteorological abstracts and bibliography*, Sept. 1950, v. 1, no. 9, p. 617.

**Copy seen:** MH-BH.

**22942. JAKUES, FLORENCE (PAGE), 1890-** . As far as the Yukon; illus. by Francis Lee Jaques. [1st ed.] New York, Harper [1951]. 243 p., illus.

Popular account of a summer 1950 trip by the Inside Passage, White Pass & Yukon Railroad and Yukon River. Deals with many things—"shoes and ships and railroad tracks" but mainly wild flowers, and includes sketches (especially of birds) by the author's husband.

**Copy seen:** DLC.

**JAKUES, FRANCIS LEE,** see Jaques, F. P. As far as Yukon. 1951. No. 22942.

**JAKUES, L. B.,** see Lepp, E., & others. Effect danilone dicumarol on frostbite. 1952. No. 23784.

**22943. JARVIK, ERIK, 1907-** . Middle Devonian vertebrates from Canning Land and Wegeners Halvö (East Greenland), Pt. II. Crossopterygii. København, C. A. Reitzel, 1950. 132 p., illus. (incl. sketch map), 24 plates. (Meddelelser om Grønland. Bd. 96, nr. 4) Reprinted as Copenhagen. Universitet. Mineralogisk-geologiske museum. Communications paléontologiques, 1950. No. 72.

Based on materials collected by the Danish expeditions to East Greenland 1936-38, under Lauge Koch from the western part of Canning Land along Nathorst Fiord and from Wegener's Peninsula. Detailed description of the fossil fish *Gyroptychius groenlandicus* n. sp., brief discussion of other fossil material, remarks on stratigraphy, and a bibliography (70 items).

**Copy seen:** DGS.

**22944. JARVIK, ERIK, 1907-** . Note on middle Devonian crossopterygians from the eastern part of Gauss Halvö, East Greenland. With an appendix: An attempt at a correlation of the upper Old Red Sandstone of East Greenland with the marine sequence. København, C. A. Reitzel, 1950. 20 p., illus. (Meddelelser om Grønland. Bd. 149, nr. 6). Issued also as Copenhagen. Universitet. Mineralogisk-geologiske museum. Communications paléontologiques. No. 73.

Results of the Danish expeditions to East Greenland 1936-38, under Lauge Koch; brief description of fossils *Gyroptychius groenlandicus* Jarvik, and some

cleithra not referable to this species, from Kap Franklin region, definitely proving that the continental deposits in the area are of middle Old Red Sandstone age; discussion of correlation (in appendix) and a bibliography (39 items).

**Copy seen:** DGS.

**22945. JARVIK, ERIK, 1907-** . On the fish-like tail in the ichthyostegid stegocephalians, with descriptions of a new stegocephalian and a new crossopterygian from the upper Devonian of East Greenland. København, C. A. Reitzel, 1952. 90 p. illus., 21 fold. plates, map. (Meddelelser om Grønland. Bd. 114, no. 12). Results of the Danish Expeditions to East Greenland, 1947-51 under the leadership of Lauge Koch.

Contains a detailed study of the tail, and descriptions of the skull and postcranial skeleton of the amphibian family Ichthyostegidae, the oldest known tetrapods, found in upper Devonian beds of the Kejser Franz Josephs Fjord region (Ymer Island and Gauss Peninsula) of East Greenland. Describes *Acanthostega gunnari*, n. g. n. sp. for which a new family, Acanthostegidae is erected, and a new crossopterygian fish, *Eusthenodon wängsjöi* n. g. n. sp. found with the new amphibian. Bibliography (72 items).

**Copy seen:** DGS.

**22946. JEFFERS, KARL B.** Arctic mapping surveys. (U. S. Coast and Geodetic Survey. Journal, Dec. 1951. no. 4, p. 23-31, incl. illus.)

"The field work of the CGS near Point Barrow (Alaska) from 1945 through 1951 included the establishment of a system of marked triangulation stations, topographic compilations of the shoreline areas from aerial photographs and hydrographic surveys of the inshore areas. The organization, development of procedures, and the outfitting of the party are briefly outlined. Triangulation and inshore hydrographic surveys along 350 mi. of coast were completed by 1951. Final operations were scheduled for 1952."—SIPRE.

**Copy seen:** DLC.

**22947. JEFFERS, KARL B.** Operation Coldfoot. (Surveying and mapping, Oct.-Dec. 1952. v. 12, no. 4, p. 404-412, illus., sketch map)

Contains an account of the "Arctic Project" of the U. S. Coast and Geodetic Survey in the Point Barrow region. The Survey's mission is stated: to

establish a permanent system of geodetic control around the perimeter of Alaska, to execute photogrammetric and hydrographic surveys and collect data on tides, currents and geomagnetism. The northern Alaskan coast represents the last phase of this mission. A general description of the region and its inhabitants is given. The types of vehicles (Diesel caterpillar tractor train, weasel, snow-jeep) and housing (Jameson hut and wanigans) are characterized, transportation and shelter being basic factors in the operation. Boat types and their uses are discussed, also limited use of aircraft. Camp, food and safety measurements for personnel are noted. Field work: its seasons, triangulation operations, hydrographic surveys are outlined. The "Arctic Project" initiated in 1945 is expected to be completed in 1953.

**Copy seen:** DLC.

**22948. JEFFERS, KARL B.** Triangulation parties conquer Arctic to map Alaska. (Civil engineering, Feb. 1951. v. 21, no. 2, p. 34-37, illus., sketch map).

On the work of the U. S. Coast and Geodetic Survey in northern Alaska 1945 and 1948, with useful information on automotive transportation and vehicles, special housing units, the best seasons for work, the "special type of station mark developed for control points in frozen ground", and the hydrographic work in open-water season.

**Copy seen:** DLC; DGS.

**22949. JELSTRUP, HANS S.** Sur les déterminations astronomiques Norvégiennes dans l'Arctique. (Finland. Geodetiska institutet. (Suomen Geodeettisen Laitoksen) Julkaisuja, 1949. no. 36, p. 81-90) **Title tr.:** On the astronomical determinations of the Norwegians in the Arctic.

Contains a brief review of astronomical determinations of geographical positions, made by Norwegians. The account begins with the earliest references found in old chronicles "Kongespeilet" and "Flatöybok" and closes with the year 1935. Methods and instruments used are noted as well as expeditions, explorers and main results. Bibliographical footnotes.

**Copy seen:** DLC.

**JENISTA, CHARLES O.,** see Johnson, W. M., & others. Correlation climatological data Bering Sea & Aleutian I. 1944. No. 23008.

**22950. JENKINS, DALE WILSON, 1918-**, and C. C. HASSETT. Dispersal and flight range of subarctic mosquitoes marked with radiophosphorus. (Canadian journal of zoology, June 1951. v. 29, p. 178-87, 2 plates, map)

Study of *Aedes communis* made at the timberline near Churchill, Man., summer 1950. Average dispersal was 500 feet, indicating this species as relatively sedentary and of limited flight range in comparison with arctic tundra species; it rests in vegetation and does not attack human beings in the daytime. "Additional data are presented on the habits of this and other northern species of mosquitoes." This study is part of the program for Biology and Control of Biting Flies in Northern Canada, of the Division of Entomology, Dept of Agriculture, Ottawa. Bibliography (14 items).

**Copy seen:** DGS; DLC.

**22951. JENKINS, DALE WILSON, 1918-**, and K. L. KNIGHT. Ecological survey of the mosquitoes of southern James Bay. (American midland naturalist, Mar. 1952. v. 47, p. 456-68, illus., tables)

Contains an account of a field study made during June 6-16 and July 6-10, 1949 (as part of the Northern Insect Survey of the Canadian Dept. of Agriculture's Entomology Division, sponsored by the Canadian Defense Research Board), supplemented by laboratory observations. 27 species of culicids have been collected and identified, and the habitats and habits of their larvae studied. The mosquitoes of the area (52° N. 80° W.) are typical of the subarctic transeontinental coniferous forest; control would be difficult due to the extensive areas in which larvae breeding takes place.

**Copy seen:** DLC.

**22952. JENKINS, DALE WILSON, 1918-**. A field method of marking arctic mosquitoes with radiophosphorus. (Journal of economic entomology, Dec. 1949. v. 42, p. 988-89)

Report on the Canadian Entomology Division's Northern Insect Survey sponsored by the Canadian Defense Research Board; on a method which can be "recommended for dispersal, flight range, migration, predation and other ecological studies."

**Copy seen:** DLC.

**22953. JENNESS, DIAMOND, 1886-**. Preservation of archeological remains in Canada. (In: Alaskan Science Confer-

ence . . . 1950. Selected papers, 1952. p. 60-65)

Contains an outline of the system of federal administration of northern Canada, measures taken to protect Eskimo remains, specifically the "Ordinance Respecting the Care and Protection of Archeological Sites in the North West Territories"; an analysis of the main sections, and of its application are given; the success of the latter is attributed to the character of the Royal Canadian Mounted Police.

**Copy seen:** DAI; DLC.

**JENNESS, DIAMOND, 1886-**, see also American Geographical Society, N. Y. Readings in the geography of N. America. 1952. No. 20178.

**22954. JENNESS, JOHN L.** Erosive forces in the physiography of western arctic Canada. (Geographical review, Apr. 1952. v. 42, p. 238-52, illus., sketch map)

Contains an evaluation of the forces operating subsequent to Pleistocene glaciation, which have contributed significantly to the production of present-day landforms in the western Canadian Arctic Islands. The most important forces are shown to be (1) mass wastage including landslides, rockfalls, slumps and solifluction, influenced by permafrost, and (2) fluvial erosion by second and first cycle streams, fed especially by snow melt waters.

**Copy seen:** DGS; DLC.

**22955. JENNESS, JOHN L.** Problem of glaciation in the western islands of arctic Canada. (Geological Society of America. Bulletin, Sept. 1952. v. 63, p. 939-51, 4 plates, 2 sketch maps)

Contains discussion of the physiographic evidence which indicates that more than one advance of ice from the continental mainland reached as far north as Viscount Melville Sound, and that probably only local glaciation occurred in the highest parts of the northern islands. Bibliography (7 items).

**Copy seen:** DGS.

**22956. JENSEN, ADOLF SEVERIN, 1866-**, and BØRGE FRISTRUP. Den arktiske klimaforandring og dens betydning, særlig for Grønland. (Geografisk tidsskrift, København, 1950. Bd. 50, p. 20-47, illus.) **Title tr.:** The change of climate in the Arctic and its significance, especially for Greenland.

"The amelioration of the weather in the Arctic during the last 3 decades has

effected numerous changes, including the ice conditions in arctic seas. The ice area within the U.S.S.R.-sector of the Arctic decreased by more than 1 million sq. km. from 1914 to 1944. The sailing season in Spitsbergen lengthened from a yearly average of 94 days during 1907-17 to 175 days during 1930-38. Floating ice and drift ice are diminishing in different parts of Greenland where fiord ice is forming later and breaking earlier. The thickness of 1-yr. old sea ice along one route diminished from 231-258 cm. during 1893-96 to 186-204 cm. during 1937-40. Hydrographical observations conducted in the Greenland fiords are reported. Glaciers have retreated or disappeared in Greenland. Information on changes in the distributions of flora and fauna is presented, and effects of climatic change upon the life of the Greenlanders are briefly discussed."—SIPRE. Bibliography (85 items). Summary in English.

**Copy seen:** DGS; DLC.

**22957. JENSEN, ADOLF SEVERIN, 1866-** . On the Greenland species of the genera *Arteidiellus*, *Cottunculus*, and *Gymnocanthus* (Teleostei, Scleroparei, Cottidae). [København, C. A. Reitzel, 1952] 21 p., plate. (Meddelelser om Grønland. Bd. 142, no. 7) Bound with his: *Recent finds of Lycodinae in Greenland waters*.

Contains descriptions and notes on the biology and distribution of five species of cottoid fishes.

**Copy seen:** DGS.

**22958. JENSEN, ADOLF SEVERIN, 1866-** . Recent finds of Lycodinae in Greenland waters. København, C. A. Reitzel, 1952. 28 p. 2 plates. (Meddelelser om Grønland. Bd. 142, no. 7) With this is bound his: *On the Greenland species of the genera Arteidiellus* (etc.).

Contains a compilation of all records of lycodinid fishes caught in Greenland waters since 1904, including the description of *Lycodes nigricans* n. sp., and notes on all 12 species concerning size and distribution.

**Copy seen:** DGS.

**JENSEN, ADOLF SEVERIN, 1866-** , see also Troels-Smith, J. Undersøgelse af klimaendringer i Grønland. 1947. No. 26800.

**22959. JENSEN, CHRISTIAN ALBRECHT THEODOR, 1867-** . Die neutralen Punkte von Arago und Babinet in Hamburg und an einigen anderen

Orten. Hamburg, 1916. 80 p., 8 figs., 8 tables. (Jahrbuch der hamburgischen wissenschaftlichen Anstalten, 1915. Bd. 33, 3. Beiheft) **Title tr.:** Arago and Babinet neutral points in Hamburg and several other places.

"Discussion of atmospheric polarization. Observations made in Hamburg during period from 1911 to 1914. Definite effects of the Katmai eruption are evident."—*Meteorological abstracts and bibliography*, June 1950. v. 1, no. 6, p. 374.

**Copy seen:** DWB.

**22960. JENSEN, CHRISTIAN ALBRECHT THEODOR, 1867-** . Über die grosse atmosphärisch-optische Störung von 1912. Berlin, 1913. 12 p., 2 tables. (Vereinigung von Freunden der Astronomie und kosmischen Physik, Mitteilungen) **Title tr.:** On the great atmospheric optical disturbances of 1912.

"Mathematical analysis of atmospheric dust condition after Katmai eruption. Theories of optical phenomena of atmosphere. Polarization measured. Tables give observations of Arago and Babinet points."—*Meteorological abstracts and bibliography*, June 1950. v. 1, no. 6, p. 374.

**Copy seen:** DLC.

**22961. JENSEN, OLAF S.** Turbellaria ad litora Norvegiae occidentalia. Turbellarier ved Norges Vestkyst. Bergen, J. W. Eides bogtryk., 1878. 97 p. plates 1-8. (Bergen, Norway. Museum. Skrifter, Nr. 1) **Title tr.:** Turbellaria of the littoral zone of the western coast of Norway.

Contains historical notes on the study of marine flatworms (Turbellaria), a morphological study and a systematic list of 50 species of turbellarians (13 described as new) inhabiting the western coastal waters of Norway, with Latin diagnoses, synonymy, critical notes (in Norwegian) and data on habitat and distribution; includes some species native to Nordland province waters.

**Copy seen:** MH-Z.

**22962. JENSEN, RALPH C.** How wells are drilled in permafrost. (World oil, Dec. 1952. v. 135, no. 7, p. 152, 154, 157-58, illus., sketch map)

Contains a discussion of some problems encountered in the exploration program of the U. S. Naval Petroleum Reserve, no. 4 in Northern Alaska. Following remarks on the general nature of permanently frozen grounds, its classification and distribution in Alaska, author dis-

cusses procedures in setting pilings in permafrost, and use of timber mats where pilings are impractical. Concrete and cement mixtures suitable for the area are noted; special problems encountered in drilling (constricting formation of ice, casing collapse) are outlined and the solutions worked out at the Reserve. Tests of clothing, transport and housing equipment, are noted finally as part of Armed Forces contribution to year-round life and work in the Arctic.

*Copy seen:* DLC.

**22963. JERNSTRÖM, ANDERS MAURITZ, 1837-1877.** Material till Finska Lappmarkens geologi, 1. Utsjoki och Enare Lappmarker. (Bidrag till kännedom af Finlands natur och folk, 1874. 21, p. 93-229, incl. fold. table) *Title tr.:* Material for the geology of the Finnish Lappmark, 1. Utsjoki and Inare Lappmark.

Introductory remarks on gold finds in Norwegian Finnmark and Finnish Lappmark (especially Ivalo valley); and the author's trip with a gold-prospecting party to parts of Finnish Lappmark north of Rovaniemi in summer 1868, and as a mountain engineer to Kitinen valley in 1871 and to Utsjoki and Inare Lappmark in 1872. He describes the granite massif of the Puolmak region, the gneiss field of the Utsjoki valley; remarks on the granulitic formation and schists in Lappmark and gives a retrospective survey of geotectonic conditions. A table shows gold production for 1870-73.

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**22964. JERNSTRÖM, ANDERS MAURITZ, 1837-1877.** Material till Finska Lappmarkens geologi, 2. Kitinendalen i Sodankylä socken. (Bidrag till kännedom af Finlands natur och folk, 1875. 24, p. 49-76, table, diagr.) *Title tr.:* Material for the geology of Finnish Lappmark, 2. The Kitinen valley in the parish of Sodankylä.

The author, a mountain engineer, traveled in the Kitinen River (left tributary of the Kemi at about 67°15' N. 27°30' E.) region in 1871 and describes its geology and mineralogy.

*Copy seen:* DLC.

**22965. JESSEN, JARNO.** Lapland. (In: Holme, Charles, ed. Peasant art in Sweden, Lapland and Iceland. New York, The Studio, 1910, p. 33-40, 12 plates, incl. two in colors)

*Contains* account of Lapps' achieve-

ment in handicrafts: the making and decoration of (mainly) domestic utensils, clothing, etc., geometric design prevailing in the ornamentation, rarely plant or animal motifs. The plates reproduce: wooden ladles, carved reindeer-horn spoons, wooden bowls and flasks, matchboxes, carved reindeer-horn knife-handles and sheaths, belt-clasps, needle cases, and bag-locks of reindeer horn; richly ornamented woman's collar and reindeer harness, both in colors.

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**22966. JESSEN'S WEEKLY,** Fairbanks, Alaska, 1942-(current).

Newspaper (about 40 p. each issue, with illus.) giving territorial and local (particularly Fairbanks) news, personals, advertisements, etc.

*File seen:* DLC (v. 1, no. 3 Feb. 6, 1942-in progress).

**22967. JETTÉ, JULIUS.** On the language of the Ten'a. (Man, a monthly record of anthropological science, 1907-09. v. 7, p. 51-56; v. 8, p. 72-74; v. 9, p. 21-25)

Describes phonetics, grammar, and many words of the language of the Koyukon Indians of Alaska.

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**22968. JETTMAR, KARL.** Zu den Anfängen der Rentierzucht. (Anthropos, Ephemeris, 1952. Bd. 47, no. 5-6, p. 737-66) *Title tr.:* On the beginning of reindeer-breeding.

*Contains* a critical evaluation of a new theory, that of M. G. Levin and G. M. Vasil'evich, on the origin of reindeer domestication. This postulates that the dog was domesticated earlier than reindeer, and that domestication of the latter had two points of origin: (1) Samoyedic in the Sayan Mts. under the influence of horse-breeding among the neighboring Turks, and (2) Tungusian or Transbaikalian, influenced by the horse-breeding Mongols; that the process started in both places independently and almost at the same time, around 1000 A. D. The theory is based on research into the history of the dog sledge. Some archeological and historical documents, however, do not support this date attributed to the origin of the reindeer-breeding. The theory, Jettmar concludes, is on the whole, of great importance: reindeer-breeding is perhaps old, but it has had scarcely any decided influence

on the domestication of other animals. Extensive bibliography is appended.

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**JEVONS, HERBERT STANLEY, 1875-**, see Pearson, H. J. "Beyond Petsoora eastward". 1899. No. 25015.

**22969. JEWETT, STANLEY GORDON, 1885-**. Bird notes from Southeastern Alaska. (Murrelet, Sept.-Dec. 1942. v. 23, p. 66-75, incl. map)

Field notes on 82 species, made June-July, 1941, at 28 localities throughout Southeast Alaska. **Copy seen:** DSI-M.

**22970. JOCHELSON, VLADIMIR IL'ICH, 1855-1937.** Naturalisticheskiĭ sūzhet o proiskhozhdenii komarov i drugikh gadov v sibirsko-amerikanskikh mifakh. (Akademiia nauk SSSR. Muzeĭ antropologii i étnografii. Sbornik, 1918. t. 5, vyp. 1, p. 200-204) **Title tr.:** Naturalistic essay on the origin of gnats and other bugs in Siberian-American myths.

**Contains** short account of a myth of origin widely disseminated and known among the Ostyaks, Samoyeds, Yakuts, Yukaghirs, Golds and some American Indian tribes.

**Copy seen:** DSI.

**JOCHELSON, VLADIMIR IL'ICH, 1855-1937,** see also Yarmolinsky, A. Aleutian mss. 1944. No. 27512.

**JOCHELSON, VLADIMIR IL'ICH, 1855-1937,** see also Yarmolinsky, A. Kamchadal & Asiatic Eskimo mss. 1947. No. 27513.

**22971. JOCHIM, KENNETH E., and A. B. HERTZMAN.** The effects of cold on the blood vessels of the skin of the forearm. (Federation proceedings, Mar. 1944. v. 3, p. 22)

**Contains** an abstract of a study on the differences between the skin of the forearm and that of the finger with regard to amount of arterial blood supply and the number of arteriovascular anastomoses, the above are correlated with the differences between the two loci in vascular reactions to local cold.

**Copy seen:** DLC.

**JOERG, WOLFGANG LOUIS GOTT-FRIED, 1885-1952,** see Nordenskjöld, N. O. G., & L. Mecking. Geog. of polar regions. 1928, 1950. No. 24688.

**22972. JØRGENSEN, EUGEN HONORATUS, 1862-**. Die *Euphrasia*-Arten Norwegens. (Bergen, Norway. Museum. Aarbok, naturvidenskabelig raekke, 1916-

1917, pub. 1919, nr. 5, p. 1-337, illus., plates 1-14, maps 1-11) **Title tr.:** *Euphrasia* species of Norway.

**Contains** in the general part (p. 5-59) the subdivision and distribution of herbaceous genus *Euphrasia*, characteristics of the species, especially northern ones, and an historical survey (for Scandinavia). In the special part: subdivision of northern species, table for the determination of species, descriptions of 11 species and numerous new varieties and forms of this very variable genus, with synonymy, critical notes, data on ecology and lists of Norwegian localities for all species, including many native to northern regions of Norway; concluding remarks; a discussion of migration of the species and an attempt at a new arrangement of the genus; a bibliography (122 items). Summary in English, p. 317-27.

**Copy seen:** MH-Z.

**22973. JØRGENSEN, EUGEN HONORATUS, 1862-**. Norges levermoser. Bergen, J. Griegs boktryk., 1934. 343 p., 13 p. of sketch maps (kartblad 1-25). (Bergen, Norway. Museum. Skrifter, nr. 16) **Title tr.:** Liverworts of Norway.

**Contains** a revision of Norwegian liverworts (hepaties) with a glossary of botanical terms, p. 11-12, a map, p. 13, and a systematic list of all known species with keys to the families, tribes and genera, descriptions, synonymy and lists of Norwegian localities, p. 17-336; a register of botanical names, p. 337-40; a bibliography (304 items), p. 341-43. Includes many species native to northern regions of Norway.

**Copy seen:** MH-Z.

**22974. JØRGENSEN, EUGEN HONORATUS, 1862-**. Notiser til Norges levermosflora I-II. (Bergen, Norway. Museum. Aarbok, naturvidenskabelig rekke, 1919-1920, pub. 1921, nr. 7, p. 1-6; (II) 1924-25, pub. 1925, nr. 4, p. I-II) **Title tr.:** Note on the hepaties of Norway, I-II.

**Contains** (in pt. I) critical notes on three Norwegian species of liverworts, including *Tritomaria scitula* occurring in Malsvel and Tromsø, northern Norway. In pt. II is a critical revision of ten hepaties known from Norway with critical notes and data on distribution; includes *Adelantus decipiens* recorded in Saltdal, Nordland. Summary in English, p. II.

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**22975. JØRGENSEN, EUGEN HONORATUS, 1862-**. *Orchis maculatus* L. &

*Coeloglossum viride* (L.) Hartm. (Bergen, Norway. Museum. Aarbok, 1908, no. 8, p. 1-13, illus.)

Contains a description of a new hybrid of terrestrial orchids, *Orchis maculatus* & *Coeloglossum viride*, found by the author near Roros, Norway; and a comparative study of this hybrid and other related species, including the Latin diagnosis of *Coeloglossum connigerum*, described by Norman as a new species from Balsfjord region, Tromsø, which may be identical with this new hybrid of Jørgensen's.

**Copy seen:** MH-Z.

**22976. JØRGENSEN, EUGEN HONORATUS, 1862-** . Protistenplankton aus dem Nordmeere in den Jahren 1897-1900. (Bergen, Norway. Museum. Aarbok, 1900, pub. 1901. no. 6, p. 1-37) **Title tr.:** Protistan plankton from the Arctic Ocean in 1897-1900.

Contains a study of zoo- and phytoplankton of the northern waters, including Barents and Greenland Sea, Baffin Bay-Davis Strait and Labrador Sea, with a key to 12 varieties and eight forms of *Cyrtarocyis denticulata* (two varieties described as new), description of *Cyrtarocyis pseudoannulata* n. sp., critical notes on some other species of infusoria and a plankton table including besides infusoria, 40 species of diatoms, 16 dinoflagellates and a few other plankton forms with stations and data on habitat for the years 1897-1900.

**Copy seen:** MH-Z.

**JØRGENSEN, J. BALSLE, see** Bandi, H. G., & J. Meldgaard. Archaeological investigations Clavering Ø, NE Greenland. 1952. No. 20439.

**JØRSTAD, FINN A., see** Feyling-Hanssen, R. W., & F. A. Jørstad. Quaternary fossils Sassen-area. 1950. No. 21777.

**22977. JØRSTAD, IVAR, 1887-** . The graminicolous rust fungi of Norway. Oslo, J. Dybwad, 1951. 92 p. text map. (Norske videnskaps-akademi, Oslo. Matematisk-naturvidenskapelig klasse. Skrifter, 1950, pub. 1951, no. 3)

Contains a critical study of 32 species of parasitic rust fungi living on graminaceous plants of Norway, collected in 1917-49 in all parts of the country including three northern provinces, with synonymy and data on host plants and their distribution, p. 1-71; general remarks, p. 72-73; a review of geographic distribution of rusts, p. 73-78; spore forms, a key to the

species, p. 80-81; a table of distribution of Norwegian rusts and their diplot hosts, p. 87-89; and a bibliography (67 items).

**Copy seen:** MH-Z.

**JOHANN, A. E., see** Wollschläger, A. Pelzjäger, Prärien u. Präsidenten. 1937. No. 27480.

**JOHANSEN, B. G., see** IOGANZEN, B. G.

**22978. JOHANSEN, HANS.** Gransangerens (*Phylloscopus collybita* (Vieill.)) geografiske variation. (Dansk ornithologisk forening. Tidsskrift, 1947. Årg. 41, hefte 3, p. 198-215) **Title tr.:** Notes on the geographical variation of the chiffchaff (*Phylloscopus collybita* (Vieill.))

Contains a taxonomic study of geographical races of this warbler, divided by the author into three groups, including the north-asiatic *Phylloscopus collybita* (*tristis*) group, inhabiting the vast region between Yenisey and Kolyma Rivers, in northern Siberia. The study is based chiefly on the investigation of the bird collection in the Zoological Museum of the Academy of Sciences U.S.S.R. Summary in English.

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**22979. JOHANSEN, HANS.** Langtået dværgryle (*Calidris subminuta* Midd.) og dens aeg. (Dansk ornithologisk forening. Tidsskrift, June 1949. Aarg. 43, p. 101-104, plate) **Title tr.:** The long-toed stint (*Calidris subminuta* Midd.) and its eggs.

Discussion of taxonomy of the species and its breeding area, with record of nest found in June 1930 on Bering Island (Commander Islands), and colored plate showing size and color of egg. Summary in English.

**Copy seen:** DSI-M.

**22980. JOHANSEN, HANS.** Ornithology in Russia. (Ibis, 1952, v. 94, no. 1, p. 1-48)

Contains a review of the development of Russian ornithology to the beginning of the 20th century: the scientific centers and principal ornithologists, the reserves, faunistic work (incl. the Arctic and the coniferous forest zone, p. 12-14), biological and ecological work; bird migration, anatomy, physiology, parasites, etc. An extensive bibliography (about 500 items) is appended.

**Copy seen:** MH-Z.

**JOHANSSON, HARALD J., see** Ahlmann, H. W., & others. Scientific invest. Kebnekajse massif. 1951. No. 20080.

**22981. JOHANSSON, KARL ERIK, 1891-** . Beiträge zur Kenntnis der Polychaeten-Familien Hermellidae, Sabellidae und Serpulidae. (Zoologiska bidrag från Uppsala, 1927. Bd. 11, p. 1-183, illus., plates 1-5) *Title tr.*: Contributions to the knowledge of Polychaeta families Hermellidae, Sabellidae and Serpulidae.

*Contains* in chapters 1-4 (p. 1-63), a study of the biology and anatomy of marine annelid worms of the families Hermellidae, Sabellidae and Serpulidae and in chapters 5-7 (p. 63-183), data on their systematic position, with a list of about 150 species from various waters (three species and one variety described as new) with synonyms, descriptions of new and more interesting species, critical notes and data on geographic distribution. Includes some species from arctic seas, Greenland and Bering Seas; a general bibliography (236 items).

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**22982. JOHANSSON, KARL ERIK, 1891-** . *Lamellisabella zachsi* Uschakov, ein Vertreter einer neuer Tierklasse Pogonophora. (Zoologiska bidrag från Uppsala, 1940, pub. 1939, Bd. 18, p. 253-68, illus., plate 1) *Title tr.*: *Lamellisabella zachsi* Uschakov, a representative of a new animal class, Pogonophora.

*Contains* an anatomical and histological study of a peculiar marine worm from the Okhotsk Sea, described by P. Ushakov in 1933 as *Lamellisabella zachsi* of the family Sabellidae (Polychaeta). The author comes to the conclusion that it is not a polychaete but belongs to a new class of annelid worms, Pogonophora. See also the author's paper "Über *Lamellisabella zachsi*," 1937.

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**22983. JOHANSSON, KARL ERIK, 1891-** . Über *Lamellisabella zachsi* und ihre systematische Stellung. (Zoologischer Anzeiger, Leipzig. 1937. Bd. 117, nr. 1-2, p. 23-26, illus.) *Title tr.*: On *Lamellisabella zachsi* and its systematic position.

*Contains* an anatomical study of this marine worm from Sea of Okhotsk, described as new by P. V. Ushakov in his paper *Eine neue form aus d. Fam. Sabellidae* 1933, q. v.; its systematic status is discussed by the present author.

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**22984. JOHANSSON, OSCAR VILHELM, 1878-** . Den årliga temperaturperiodens egenskaper och typer, främst i Europa. Helsinki, 1929. 110 p., 4 diagrs. (Acta geographica, v. 2, no. 1) *Title tr.*: Characteristics and types of the annual temperature cycle, especially in Europe.

The annual course of the temperature is systematically investigated in order to establish and explain its various types. Three aspects are distinguished: (1) the amplitude and the resulting degree of continentality; (2) the dislocation of phases; (3) the asymmetry. The work is to a certain degree a continuation of earlier studies of this author and others. Summary in German, p. 95-110.

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**22985. JOHANSSON, OSCAR VILHELM, 1878-** . Dämpfande Wirkungen des Schnees und Eises auf die Lufttemperatur. Helsingfors, 1913. 64 p. tables. (Finska vetenskaps-societeten. Översigt af förhandlingar, 1912-1913, Afd. 55A, no. 11) *Title tr.*: The dampening effect on the air temperature of snow and ice.

*Contains* a study of the influence of snow cover and ice cover on climate, especially their modifying effect upon air temperature during the melting period. The account is based largely on conditions in Finland (with data for Sodankylä), but other areas (including North American) with available meteorological data, are included for comparison. The effect of snow and ice melting is analyzed for various geographical latitudes, including some above the Arctic Circle.

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**22986. JOHANSSON, OSCAR VILHELM, 1878-** . Isförhållandena vid Uleåborg och i Torne älv. Helsingfors, 1932. 45 p., tables. (Bidrag till kännedom af Finlands natur och folk. Häfte 84, no. 3) *Title tr.*: Ice conditions at Uleåborg and on Torne River.

Part 1 (p. 1-19) deals with ice conditions in the harbor of Oulu (Uleåborg 65°03' N., 25°35' E.) and on Ule River. Pt. 2 (p. 19-44) summarizes from 18th-19th century records, data on freeze-up and break-up on rivers draining southward into Gulf of Bothnia. Includes also comparative data for several Finnish and Russian northern rivers. Tables show the variations in ice conditions year by year and in periods of years. Bibliography (20 items).

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**22987. JOHANSSON, OSCAR VILHELM, 1878-** . Meteorologiska och geofysiska data för Sodankylä. Helsingfors, 1917. 87 p. tables. (Finska vetenskaps-societeten. Oversigt af förhandlingar, 1916-1917, Afd. 59A, Matematik och naturvetenskaper, no. 8) *Title tr.*: Meteorological and geophysical data for Sodankylä.

*Contains* data for Sodankylä (67°26' N., 26°34' E., a Finnish station in the First International Polar Year Program 1882-83), also comparative data from a few other stations on atmospheric pressure, air temperature, humidity, cloudiness, wind velocity and direction, soil temperature, magnetic declension, atmospheric electricity. Most observations are for the periods 1882-84 and 1908-1915.

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**22988. JOHANSSON, OSCAR VILHELM, 1878-** . Den normala nederbörden och torkan år 1908 i Finland. Helsingfors, 1909. 26 p., double map. (Geografiska föreningen i Finland. Meddelanden, 1907-1909. Bd. 8, no. 7) *Title tr.*: The normal conditions of precipitation and the drought in Finland in 1908.

*Contains* analysis of 20 years' rain conditions in Finland (1886-1905) from, admittedly, too few stations: 14 arctic for 20 years, 31 for 10 years, 30 for 1-2 years. The main and secondary maxima and minima of precipitation are located and analyzed. The annual distribution is also presented. Finally the drought of 1908 is discussed, the areas and periods of least precipitations, the damage, etc., indicated. Summary in German.

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**22989. JOHANSSON, OSCAR VILHELM, 1878-** . Om den dagliga gången af temperaturen i Sodankylä under polaråret sept. 1882-aug. 1883. Helsingfors, 1903. 33 p. tables. (Finska vetenskaps-societeten. Oversigt af förhandlingar, 1902-1903. Bd. 45, no. 14) *Title tr.*: On the daily course of air temperature at Sodankylä in the polar year Sept. 1882-Aug. 1883.

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**22990. JOHANSSON, OSCAR VILHELM, 1878-** . Om vindförhållandena i Fennoscandia. Helsingfors, 1920. 66, 11, 3 p. maps, incl. 1 fold., tables. (Geografiska föreningen i Finland. Meddelanden, Bd. 11, no. 1) *Title tr.*: On wind conditions in Fennoscandia.

*Contains* accounts of the annual mean

wind direction (p. 1-35) and monsoon-like phenomena in Fennoscandia (p. 35-61), based on literature and author's own work. The great difference in wind velocity between the coast and the interior, effect of the mountains, the east winds, continental and oceanic climatic areas, temperature, etc., are discussed in the first section; the second section deals with occurrence of monsoons; their deviations; causes; comparison with European and general conditions. Bibliography (48 items). Summary (and addendum 3 p.) in German. *Copy seen:* DLC.

**22991. JOHANSSON, OSCAR VILHELM, 1878-** . Über die anemometrischen Windstärkemessungen in Finland. Helsingfors, 1906. 56 p. tables. (Finska vetenskaps-societeten. Oversigt af förhandlingar, 1905-1906. Bd. 47, no. 18) *Title tr.*: On anemometric measurements of wind velocity in Finland.

*Contains* a report on a (then) recently made reduction of wind velocity measurements to absolute standards and a critique of this conversion. The report covers primarily Helsinki and deals with earlier observations and conversions and their evaluation, monthly and annual averages and daily course of wind velocity, etc. Similar data are given from four other stations, including Sodankylä (67°24' N. 26°36' E.) the Finnish station in the First International Polar Year program 1882-83.

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**22992. JOHANSSON, OSCAR VILHELM, 1878-** . Über die Asymmetrie der meteorologischen Schwankungen. Helsingfors, 1926. 134 p., map, tables. (Finska vetenskaps-societeten. Commentationes physico-mathematicae, 3:1) *Title tr.*: On the asymmetry of meteorological fluctuations.

A highly technical, theoretical analysis of the subject in various climatic zones, including the Arctic. Contains accounts of the periodic fluctuations, diurnal and annual, of temperature, humidity, precipitation, pressure, winds, etc., and aperiodic fluctuations of the same elements.

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**JOHNSEN, PALLE**, see Winther, P. C., & others. Prelim. account Danish Pearyland Exped. 1950. No. 27458.

**22993. JOHNSEN, SIGURD, 1884-1949.** Brille-efuglen *Arctonetta fischeri* (Brandt) ny for Norges og Europas fauna. (Bergen, Norway. Museum. Aarbok; naturviden-

skabelig rekke, 1937, nr. 3, p. 1-18, illus., plate) **Title tr.:** Fischer's eider, *Arctonetta fischeri* (Brandt), a species new to Norwegian or European fauna.

**Contains** a description of Fischer eider (*Arctonetta fischeri* Brandt), a species new to the fauna of Norway, which was shot in the harbor of Vardø, Finnmark (70°22' N. 31°37' E.) on Dec. 12, 1933. The winter home of this bird is in the Bering Sea (Aleutian Islands) and the western limit of its breeding range is the mouth of Lena River.

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**22994. JOHNSEN, SIGURD, 1884-1949.** Draktskiftet hos lrypen (*Lagopus lagopus* Lin.) i Norge. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1929, nr. 1, p. 1-84, illus., plates 1-14) **Title tr.:** The changes of plumage in the willow ptarmigan (*Lagopus lagopus* L.) in Norway.

**Contains** the result of the author's observations on the change of plumage of the cock and hen of this ptarmigan (grouse) in spring, summer and autumn, with illustrations, general remarks and a discussion of periodicity of such changes; based partly on the observations in eastern Pasvik, Finnmark and in Hadseløy, Lofoten Islands (see table I). Summary in English, p. 66-79.

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**22995. JOHNSEN, SIGURD, 1884-1949.** Ichthyologiske notiser I. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1918-19, pub. 1921, nr. 6, p. 1-94, illus., plate) **Title tr.:** Ichthyological notes I.

**Contains** notes on 41 fish species of the Norwegian and adjoining waters based upon material of the Bergen Museum; with data on systematics, propagation, development and life history; includes some species native to Greenland and Barents Sea. Bibliography (49 items). Summary in English, p. 63-80.

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**22996. JOHNSEN, SIGURD, 1884-1949.** On the variation of fishes in relation to environment (preliminary account). (Bergen, Norway. Museum. Aarbok; videnskabelig rekke, 1936, nr. 4, p. 1-26, diags.)

**Contains** the results of investigation into the variation in the number of vertebrae and fin-rays, carried out by the author on some species of fish (*Spinachia*,

*Gobius*) from shallow waters along the coast of Norway, including Nordland and Tromsø waters (up to 69° N.) with discussion of the influencing factors and various diagrams. **Copy seen:** MH-Z.

**22997. JOHNSEN, SIGURD, 1884-1949.** Remarks on the distribution and biology of *Myctophum glaciale* (Reinh.) (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1921-22, pub. 1923, no. 6, p. 1-50, illus., map)

**Contains** data on distribution of the lantern fish, *Myctophum glaciale* in northern waters, including some localities on the coast of Nordland (67°05' N., 9°08' E.) and Finnmark (Hasvik, Sørsen); observations on its biology and ecology, with notes on habitat, rate of growth, feeding habits, maturity, reproduction, horizontal and vertical distribution; bibliography (40 items).

**Copy seen:** MH-Z.

**22998. JOHNSEN, SIGURD, 1884-1949.** Remarks on the Svalbard ptarmigan (*Lagopus mutus hyperboreus* Sundev.) (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1941, pub. 1942, nr. 8, p. 1-29, plate 1)

**Contains** notes on the change of plumage in the male and female of Svalbard ptarmigan, winter plumage, the moult of claws and bill, notes on size, weight and habits, the annual cycle of plumages, nomenclature of the plumage in *Lagopus*, dimensions of specimens from Vestspitsbergen, Bjørnøya and Tromsø, Norway, p. 20-27, and a bibliography (36 items).

**Copy seen:** MH-Z.

**22999. JOHNSEN, SIGURD, 1884-1949.** Rovdyr- og rovfuglestatiskikken i Norge. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1929, no. 2, p. 1-118, 1-22, illus., plates 1-4) **Title tr.:** Statistical data on Norwegian carnivorous animals and birds of prey.

**Contains** a study of carnivorous animals of Norway, including European bear, wolf, lynx, glutton, pine marten and otter, and five birds of prey (eagle, falcon, hawk, horned owl and sparrow hawk), with notes on biology and ecology, and statistical data on their distribution, arranged by the years and provinces, including Nordland, Tromsø and Finnmark, northern Norway; additional data on lemmings (1870-1921), voles and other rodents, p. 105-116, statistical tables, p. [1-22].

**Copy seen:** MH-Z.

**23000. JOHNSEN, SIGURD, 1884-1949.** Studies on variation in fish in North-European waters I. Variation in size. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1944, pub. 1945, no. 4, p. 1-129, illus., diags., text map)

Contains the results of a study of variation in size of seven species of sea fishes, and the factors influencing such variation, on the basis of measurements of numerous specimens from various seas, including Greenland and Barents Seas and West Greenland waters; discussion of the influence of temperature, feed and environmental factors, p. 67-121, tables of sizes (1-6) and a bibliography (76 items).

**Copy seen:** MH-Z.

**JOHNSON, A. MORGAN,** see Nees, L. A., & A. M. Johnson. Prelim. foundation explor. arctic regions. 1952. No. 24597.

**JOHNSON, A. W.,** see National Research Council. Highway Research Board. Frost action, review literature. 1952. No. 24575.

**23001. JOHNSON, ARTHUR HOLMES.** A general view of tuberculosis in Alaska. (Diseases of the chest, 1940. v. 6, p. 266-69)

Contains an outline of the anti-tuberculosis work done by public institutions; data on incidence and death rate; means of combatting the disease; discovery and isolation of cases, pre-school and annual school examinations; care; an analysis of the causes of the disease amongst the natives, of which undernourishment, overcrowded housing and alcohol are considered the main ones.

**Copy seen:** DLC.

**23002. JOHNSON, CARL A.** Frostbite; experimental and clinical observations. (Archives of physical medicine, June 1947. v. 28, p. 351-57, plate: 13 col. fig.)

Contains a report of incomplete studies with monkeys, suggesting that clotting of the blood does not occur until 4-5 hours after frostbite; rapid recovery from frostbite and subsequent gangrene is attributed to immediate active use of the affected limb. A case is also reported of a man who, while drunk got frostbitten in the hands, and did not receive treatment for about four months; good functional results were obtained by a therapy of heat, massage and active motion.

**Copy seen:** DLC.

**23003. JOHNSON, DONALD McINTOSH.** A doctor regrets, being the first of "A publisher presents himself." London, C. Johnson, 1949. 242 p., 64 plates, 2 maps.

Autobiography, including (chap. 5, p. 91-109) account of experiences as medical member of the Cambridge Expedition to East Greenland, and (chap. 7-8, p. 131-77) a sojourn in Labrador as doctor of the Grenfell Mission hospital at Harrington 1928-29. The maps and most of the excellent illustrations are from photographs taken in these regions.

**Copy seen:** DLC.

**JOHNSON, FRED,** see Scholander, P. F., & others. Heat regulation mammals & birds. 1950. No. 25978.

**23004. JOHNSON, MARTIN WIGGO, 1895-** . Concerning the copepod *Eucalanus elongatus* Dana and its varieties in the northeast Pacific. Berkeley, Calif., 1938. 165-80 p., 2 plates, 2 maps. (California. University. Scripps Institution of Oceanography, La Jolla. Bulletin. Techn. ser., v. 4, no. 6)

This taxonomic study includes *Eucalanus bungii* which occurs in Bering Strait and Sea and in the Gulf of Alaska. Bibliography (18 items).

**Copy seen:** DSI-M.

**23005. JOHNSON, ROBERT EUGENE, 1911-** , and R. M. KARK. Environment and caloric requirements. (Federation proceedings, Mar. 1947. v. 6, p. 138)

Contains an analysis of information from various parts of the world (representing six types of climate, including the Arctic and sub-Arctic) on the food which soldiers choose to eat. The data show that the voluntary caloric intake increases with the decrease of environmental temperature.

**Copy seen:** DLC.

**23006. JOHNSON, ROBERT EUGENE, 1911-** , and others. Metabolic changes in heat acclimatized men during abrupt exposure to a very cold climate. (Journal of clinical investigation, July 1949. v. 28, p. 792) Other authors: C. G. Bly, R. M. Kark, and C. Frank Consolazio.

Contains a study on 32 young men acclimatized for six months to Florida and taken by air, in January, to a sub-arctic area. They were intensively studied for the first 24 hours and less so for 11 more days. Responses during the first 24 hours are presented; most of

the subjects reverted to normal after 48 h.; statistically significant responses in the last six days are also quoted. The changes showed many similarities to those following injection of adrenocorticotrophic hormone and to the "general adaptation syndrome" during stress.

**Copy seen:** DLC.

**JOHNSON, ROBERT EUGENE, 1911-**, see also Bly, C. G., & others. Nutritional requirements men in cold weather. 1949. No. 20730.

**JOHNSON, ROBERT EUGENE, 1911-**, see also Kark, R. M., & others. Observations mobile arctic force. Health. 1948. No. 23138.

**23007. JOHNSON, WILL A.** Blue gold on Middleton. (Alaska sportsman. Apr. 1950. v. 16, no. 4, p. 6-9, illus.)

Popular account of Thomas Smith's blue fox farming, alone on Middleton Island for five years during the first decade of the 20th century. Describes the bleak island in the Gulf of Alaska (59°26' N., 142°20' W.), now occupied by U. S. weather, communications and Coast Guard stations. **Copy seen:** DI.

**23008. JOHNSON, WILLIAM M., and others.** The correlation of some climatological data of the Bering Sea and the Aleutian Islands. [Pasadena] 1944. 19 p. Thesis (M. S.), California Institute of Technology. Other authors: J. E. Burch, G. R. Anderson, M. E. Bowen, R. S. Carrigen, R. D. Denney, C. O. Jenista, K. W. Miller, B. W. Robinson, W. A. Skinner, and J. L. Sorenson.

"Charts of mean pressure taken from the Daily Northern Hemisphere Sea Level Charts are presented for the North Pacific and Bering Sea region for Jan., April, July, Oct., and Dec. along with similar charts of mean temperatures, temperature difference between air and sea surface and fog frequency (June-Aug.)."—*Meteorological abstracts and bibliography*, Mar. 1952. v. 3, p. 231-32.

**Copy seen:** DWB.

**23009. JOHNSTON, ASHTON WILLIAM, 1910-**, and J. M. POWELSON. Development of Mayo mining district, Mayo, Yukon Territory. (Geological Association of Canada. Proceedings, 1951. v. 4, p. 41-48)

Contains a brief review of the history of prospecting and production, and of the geologic relations, mineralization and production economics of the silver-lead-

zine deposits of Keno and Galena Hills, Mayo region (about 63°-64°30' N., 132°30'-135° W.) Yukon Territory. Bibliography (17 items).

**Copy seen:** DGS.

**23010. JOKI, A. J.** Indonesische Lehnwörter im Samojedischen. (Finnisch-ugrische Forschungen, 1946. Bd. 29, p. 202-221) **Title tr.:** Indonesian loan-words in Samoyedic.

The language of the Yenisey Ostyaks (i. e. Yeniseians, self-named Kets) evidently belongs to the Indo-Chinese linguistic group, brought by the so-called "blond Kirghiz". The southern and Ostyak Samoyeds have some ten Chinese words which they probably got from the Yeniseians. **Copy seen:** InU.

**23011. JOKI, A. J.** Eine samojedische Benennung des Bären. (Suomalais-ugrilainen seura. Toimituksia, 1950. v. 98, p. 149-52) **Title tr.:** A Samoyed name of bear.

Kamass Samoyed *kōnu* i. e. 'bear' has been borrowed from *kunu* i. e. 'glutton' of the Turcic dialects of Siberia, either directly or through the Yeniseian.

**Copy seen:** DLC; InU.

**JOKI, A. J.,** see also Donner, K. Kamassisches Wörterbuch. 1944. No. 21509.

**23012. JOLLEY, THEODORE R., and others.** Bituminous-coal deposits in the vicinity of Eska, Matanuska valley coal field, Alaska. Washington, D. C. 1952. ii, 87 p. incl. fold. tables. 7 plates (incl. diagrs.), 7 maps. (U. S. Bureau of Mines. Report of investigations 4838) Process printed. Other authors: A. L. Toenges and L. A. Turnbull.

Contains a report of investigations to determine the bituminous coal reserves in that part of the Matanuska valley, which lies just north of 61°40' N. and between 148°40'-149°20' W. The general geology is described briefly, and the structural conditions of the Eska mine area in more detail; each coal bed is characterized. **Copy seen:** DGS.

**23013. JOLLIFFE, ALFRED WALTON, 1907-**. The north-western part of the Canadian Shield. (International Geological Congress. 18th Great Britain, 1948. Report, 1952. Pt. 13, p. 141-49, maps)

Distinguishes "four distinct geological sub-provinces, each with its characteristic rock types, major fault system, and metallic mineral association." (1) Great Bear, (2) Yellowknife, (3) east arm of

Great Slave Lake, and (4) Taltson." The metal distribution is considered to reflect original crustal heterogeneities that have persisted throughout geological time since Pb/U ratios indicate that certain uranium deposits within the Great Bear subprovince may differ in age by as much as  $1 \times 10^9$  years."

**Copy seen:** DGS.

**23014. JONES, A. G. E.** The voyage of H. M. S. *Cove*, Captain James Clark Ross, 1835-36. (Polar record, July 1950. v. 5, no. 40, p. 543-56, maps)

Contains account of voyages for relief and liberation of 11 whaling ships with crews upward of 600 persons, beset in ice of Davis Strait between  $69^{\circ}$ - $70^{\circ}$  N. and  $60^{\circ}$ - $65^{\circ}$  W. in fall of 1835. Notes value of the ice-bound vessels and cargos, organization for their rescue; commissioning of the *Cove* (374/380 tons, built in 1798) officers and crew (also two other supporting ships, never completed), itinerary of Ross's first attempt to reach the whalers (Jan. 6-Feb. 5, 1836); return of some of the ice-bound whalers; detailed account of second attempt (Feb. 24-Aug. 31, 1836) especially of the search for the *William Torr*; subsequent career of Ross and his officers. Bibliography (79 items).

**Copy seen:** DLC.

**23015. JONES, ALUN.** Recognition sketches to illustrate sailing directions of polar regions. (Polar record, July 1952. v. 6, no. 44, p. 540-42)

Contains suggestions and instructions how to prepare views (of coasts, etc.) illustrating sailing directions; from what point and distance, scale and vertical exaggeration, angles, lines, use of photographs, etc.

**Copy seen:** CaMAI; DLC.

**23016. JONES, DON A.** Steam boiler for arctic surveys. (U. S. Coast and Geodetic Survey. Journal, Dec. 1951. no. 4, p. 147-49, incl. illus.)

"Permafrost is an obstacle to arctic survey operations such as the setting of survey station marks, reference marks, base line stakes, and building and bracing of survey signals during the summer. A portable steam boiler and steaming bar, used to overcome this obstacle by thawing a hole into the frozen ground, are described. The steaming bar is a hollow iron bar, 1.5 in. in diameter and 6 ft. long. It has a connection for a steam hose and handle at one end, and a wedge-shaped point at the other end. Approxi-

mately 15 min. are required to steam in a 3 in. x 6 ft. iron-pipe station mark. The boiler is of the water-tube type, weighs 160 lbs., and provides a pressure range of between 20-60 lb./sq. in. The fuel consumption is 3 gal./hr. using diesel oil. The boilers are mounted on improvised, low, wooden sleds. Operating details are given."—SIPRE. **Copy seen:** DLC.

**23017. JONES, DON A.** Tractor trains in the Arctic. (U. S. Coast and Geodetic Survey. Journal, Dec. 1951. no. 4, p. 33-37, incl. illus.)

"Experiences encountered during a move of a base camp consisting of 400 tons of equipment and supplies for 100 mi. along the Alaska north coast are described. The move was made during Feb. and March. Transportation equipment consisted of three heavy Caterpillar diesels, one International tractor-crane, and several Weasels. The cargo was carried by three large pipe sleds, three timber go-devil sleds, two cook wanigans, and numerous light sleds and trailers. The trail was marked by small tripods and flags stuck in the snow at turns and short intervals. The trains traveled on as smooth, ground ice as possible, avoiding sandspits and tundra. Methods of securing the loads and connecting the sleds are described."—SIPRE.

**Copy seen:** DLC.

**23018. JONES, Sir HAROLD SPENCER, 1890-** . The positions of the magnetic poles. (Polar record, 1948. v. 5, p. 148-54)

The Astronomer Royal of Great Britain discusses in some detail, methods for obtaining positions for the poles, also recent research by air and land expeditions which aided in fixing our present location for the Magnetic North Pole more than two hundred geographical miles away from its position as determined by Amundsen in 1905.

**Copy seen:** DLC; DSI-M.

**23019. JONES, Sir HAROLD SPENCER, 1890-** . Where are the earth's magnetic poles? (Discovery. Apr. 1950. v. 11, p. 127-32, incl. 2 p. of diagrs.)

Succinct presentation of general facts bearing on construction of a chart of isogonals for the use of mariners, the attempts to assign positions to both poles, to the North Magnetic Pole, from the efforts of John Ross in 1831; discussion of the wandering of the North Magnetic Pole; the equipment and aerial observations of the *Artes* flights, May 1945; and

the recent research carried out by the Canadian Dominion Observatory, Ottawa.  
**Copy seen:** DGS.

**JONES, J. G.,** *see* Jones, M. W., & J. G. Jones. Tidal effects in ionospheric F-layer. 1950. No. 23021.

**23020. JONES, MARK WALLON, 1916-** . Thickness of winter F-layer in polar regions. American Geophysical Union. Transactions, 1950. v. 31, p. 187-90, illus., table)

"The semi-thickness of the F-layer, as calculated by the Booker-Seaton method, for the winter months at College, Alaska, decreased from a monthly mean of 24 km. for the year 1941-42 to 13 km. for 1943-44. This decrease in semi-thickness is coincident with the decrease in total sunspot number. For October to December, 1948, the mean semi-thickness was 60 km. and the five-fold increase in semi-thickness is believed to be coincident with the increase in sunspot number."—Author's abstract.

**Copy seen:** DLC.

**23021. JONES, MARK WALLON, 1916-** , and J. G. JONES. Tidal effects in the ionospheric F-layer. (Journal of meteorology, Feb. 1950. v. 7, p. 14-20, illus.)

"Solar and lunar diurnal and semi-diurnal tides in the thickness of the ionospheric F-layer at College, Alaska (near Fairbanks) observed during the winter of 1948-1949 are analyzed, discussed and illustrated by numerous graphs. Methods of harmonic analysis, and theoretical considerations are treated. The diurnal lunar wave is found to be the most pronounced at this latitude (64° N.), and the sign of this wave corresponds to the sign of the lunar declination."—*Meteorological abstracts and bibliography*, May 1950, v. 1, no. 5, p. 289.

**Copy seen:** DLC.

**23022. JONES, OLIVER K.** Light, darkness, and polar war. (Air University quarterly review. Spring 1949. v. 2, no. 4, p. 48-57, illus.)

Discussion of fundamental physical relations between sun and earth from viewpoint of transpolar air travel between points north of 30° N. lat.; data on variation (by date and time) in conditions of illumination and duration of darkness on selected Great Circle routes; need for "thorough knowledge of unusual variations of daylight, twilight, and

darkness in the arctic region and their applicability to polar war."

**Copy seen:** CaMAL.

**23023. JÖNSSON, BROR.** Det arktiska jordbruket. (Terra, 1946. v. 58, no. 1, p. 1-5) **Title tr.:** Arctic agriculture.

Contains a general picture of agricultural conditions and possibilities in the region between the tundra zone in the north and the Arctic Circle or other locally accepted southern limit of the Arctic. The continental climate and vegetation period prolonged by number of sunshine hours in arctic summer days are noted; cultivation in Finland (small), U.S.S.R. and Alaska (extensive) is discussed and principal crops indicated: cereals (barley, rye, oats, etc.), vegetables (potatoes, carrots, etc.). Favorable prospects for arctic agriculture are said to require local centers of consumption and rational selection of crops: cereals for animal victuals and potatoes. Summary in English.

**Copy seen:** DLC.

**23024. JÖNSSON, HELGI, 1867-1925.** A contribution to the knowledge of the marine algae of Jan Mayen. (Botanisk tidsskrift, 1905. Bd. 26, hefte 3, p. 319-20)

Contains a list of 12 marine red algae (Rhodophyceae) and three species of brown algae (Phaeophyceae) collected by C. Kruuse in Jan Mayen waters and determined by the author.

**Copy seen:** DLC; MH-A.

**23025. JORDAL, LOUIS H.** Some new entities in the flora of the Brooks Range region, Alaska. (Rhodora, Feb. 1952. v. 54, no. 638, p. 35-39)

Contains a brief account of seven new forms of plants, two of them new species. The latter, *Braya Bartlettiana*, sp. nov. and *Phlox alaskensis*, sp. nov. are described in detail with formal diagnoses. The study was aided by the Arctic Institute of North America.

**Copy seen:** DA.

**JORGENSEN, MYRON N.,** *see* Levine, V. E., & M. N. Jorgensen. Urinary chlorides & blood chlorides in Eskimo. 1941. No. 23813.

**23026. JORGENSEN, REIDAR.** Die Höhengrenzen der Gefäßpflanzen in Troms fylke. (Norske videnskabers selskab, Trondhjém. Skrifter, 1936,

pub. 1937, nr. 8, p. 1-106, illus., text map)  
**Title tr.:** Vertical limits of vascular plants in Tromsø county.

Contains a study of the vertical distribution of vascular plants on fourteen mountains (68°30'-69°40' N. and 8°-9°30' E.), carried out in the summer of 1935, with lists of plants and tabulated data for each mountain, a list of 255 vascular plants with notes on their vertical distribution in Tromsø, Nordland and Finnmark, based on the author's observations and on literature data. A comparison is made with data in J. M. Norman's *Norges arktiske flora*, 1894-1900 (see *Arctic Bibliography*, No. 12519). A table comparative of maximum heights in Tromsø with those in northern Sweden and Jotunheimen is included. Bibliography (24 items).

**Copy seen:** DLC; MH-A.

**JOSEPH, JEROME A.,** see Minnesota. University. Institute of Technology. Review properties snow & ice. 1951. No. 24376.

**23027. JOSS, WILLIAM F.** Sealing, new style. (Beaver, Mar. 1950. Outfit 280, no. 4, p. 43-45, illus.)

Description with photographs of a three-pronged hook with chain and toggle made by Eskimos of the Dolphin and Union Strait region of the Canadian Arctic. It is designed to be placed in the ice hole through which the seal comes up for air, and to catch the animal on its prongs, as he slips down again through the hole. With such hooks, a hunter can take an average daily catch of two seals, during winter with its restricted daylight conditions and a catch of 10 to 12 seals (from 20 hooks set out) as daylight increases. **Copy seen:** DSI-M

**23028. JOURDAIN, F. C. R.** Breeding of Steller's eider (*Polysticta stelleri*) in Norway. (Norsk ornithologisk tidsskrift, 1926. Ser. 2, nr. 7, p. 204)

Note on two finds of this eider duck in the Varanger Fiord region, 1924.

**Copy seen:** DI.

**23029. JOURNAL DES VOYAGES.** Précis des recherches faites pour trouver un passage Nord-Ouest, par le Grand-Océan. (Journal des voyages, découvertes et navigations modernes, 1819. t. 2, p. 58-74) **Title tr.:** Survey of investigations in search of the Northwest Passage, by way of the Pacific Ocean.

Brief notes on exploration from the voyage of Cortez in 1537 to the work of

Hearne and Mackenzie in the late 18th century.

**Copy seen:** DLC.

**23030. JOURNAL DES VOYAGES.** Sur l'expédition au pôle nord. (Journal des voyages, découvertes et navigations modernes, 1818. t. 1, p. 36-51, 143-54, 231-54) **Title tr.:** On the north polar expedition.

Résumé of physical characteristics (as known in the early 19th century) of the Arctic Basin and northern oceans and seas; also a chronological catalog of voyages of discovery to the North, from that of John Cabot in 1495 or 6, to 1776 when Lt. Pickersgill penetrated Davis Strait to 68°14' N. in search of the Northwest Passage.

**Copy seen:** DLC.

**JUBILEE SYMPOSIUM CELEBRATING THE 30TH ANNIVERSARY OF THE OCTOBER SOCIALIST REVOLUTION,** see Юбилейный сборник посвященный тридцатилетию великой октябрьской социалистической революции. 1947. No. 22866.

**23031. JUDD, W. W.** Birds observed in the Yukon Territory during the summer of 1949. (Canadian field-naturalist, July-Aug. 1950. v. 64, p. 135-39, sketch map)

Field notes on 24 species of birds in a wide area around Dawson, observed by a member of the Canadian Northern Insect Survey, during May-July.

**Copy seen:** DGS.

**23032. JUDD, W. W.** Mammals observed in the Yukon Territory, Canada, in the summer of 1949. (Journal of mammalogy, Aug. 1950. v. 31, p. 360-61)

Notes on six species of mammals seen during June-July in the Dawson region.

**Copy seen:** DGS; DSI-M.

**23033. JUEL, ERIC.** Notes on seal-hunting ceremonialism in the Arctics. (Ethnos, Stockholm, 1945. Bd. 10, no. 2-3, p. 143-64)

Contains account of preparations for the seal-hunt, rites observed during the sealing, return from the hunt and disposal of waste parts of the animal, etc. The paper is an excerpt from a more extensive, as yet unpublished, work "Studies on hunting and fishing rites among the arctic peoples," which seems to be based chiefly on printed sources (a bibliography is added).

**Copy seen:** DSI-M; InU.

**JUEL, HANS OSKAR, 1863-1931,** see Wittrock, V. B., & H. O. Juel. Catalogus plantarum. 1891. No. 27463.

**23034. JURVA, RISTO.** Kesäkuun 5 ja 10 [i. e. 15] P:n 1910 ukonilmat Suomessa. Helsinki, 1911. 24 p., 5 plates (maps, incl. 2 fold.). (Suomalainen tiedeakatemia. Annales Academiae scientiarum fennicae, A3:13) **Title tr.:** The thunderstorms of June 5 and 10 [i. e. 15], 1910 in Finland.

A study of weather conditions in Finland (including the North) during this period, with 10 maps figuring various phases, weather conditions, and characteristics of the storms.

**Copy seen:** DLC.

**23035. JURVA, RISTO.** Über die grösste Geschwindigkeit der Vereisung des Meeres. (Suomalainen tiedeakatemia, Helsingfors. Sitzungsberichte, 1946. p. 223-30, diagrs., maps) **Title tr.:** On the greatest speed of ice formation in the sea.

Contains a study of marine ice formation and description of a method for determination of the maximum rate at which freezing takes place, on the basis of data from normal winters. The practical aspects of predicting the extent and thickness of the ice for navigation are also discussed.

**Copy seen:** DLC.

**23036. JURVA, RISTO.** Ukonilmoista Suomessa 1904. Helsinki, 1909. 129 p., 6 plates (4 fold. diagrs., 2 maps), tables. (Bidrag till kännedom af Finlands natur och folk, 67:2) **Title tr.:** Thunderstorms in Finland during 1904.

On the basis of reports from 70 regular stations and a number of voluntary observers, author gives statistical and other data on duration, direction, and force of these storms including localities in Finland north of the Arctic Circle; lightning strikes; brief description of the fall of meteorites (including three in the North) and weather conditions in various localities. This study and one for the following year were made to provide accurate and detailed records, more closely related than data previously available to the observable storm phenomena.

**Copy seen:** DLC.

**23037. JURVA, RISTO.** Ukonilmoista Suomessa 1905. Helsinki, 1910. 168 p., 2 plates (diagrs., 1 fold.) tables. (Bidrag till kännedom af Finlands natur och folk, 68:1) **Title tr.:** Thunderstorms in Finland during 1905.

Contains statistical and other data on the direction and duration of thunderstorms; air pressure; descriptions of

lightning strikes; fall of two meteorites; distribution of the storms including those extending to, or starting from localities north of the Arctic Circle.

**Copy seen:** DLC.

**JURVA, RISTO, see also Hustich, I., ed.** Recent climatic fluctuations Finland; symposium. 1952. No. 22755.

**23038. JUSTESON, P. TH.** Some results of aurora-observations. Helsinki, 1937. 16 p., 5 plates, 28 illus. (Suomalainen tiedeakatemia. Annales Academiae scientiarum fennicae, 48:3)

The author's aurora expedition of 1935-36, aided by the Danish Meteorological Institute and the Finnish Academy of Sciences made observations at Vuoto (68° N. 28° E.), Inari (69° N. 27° E.), and Kaamanen (69° N. 27° E.) in northern Finland. In 11 months, aurora were observed on 107 nights and 1400 pictures taken. Author describes the birth (relation between position in latitude of the aurora and declination of the sun, the infrahorizontal stream, and the horizontal stalk); the climax; the radiation; and the pulsations. Appended are 28 photographs of aurora observed.

**Copy seen:** DLC.

**23039. JUTILA, K. T.** Alfred Oswald Kairamo. (Suomen maatoloustieteellinen seura. Aikakauskirja, 1939. v. 11, no. 1, p. 1-8, illus.)

Contains the text of a speech in memory of A. O. Kairamo 1858-1938, giving account of his life and studies, especially in botany; his plant-ecological investigations in Finland, Lapland and Kola; his public activities; services to agriculture, etc.

**Copy seen:** DLC.

**23040. JUTILA, K. T.** Tutkimuksia Perä-Pohjolan ja Lapin talous- ja asutusoista, 1. Luonnontieteellis-taloudellinen yleiskatsaus. Helsinki, 1926. 121 p., fold. map, tables. (Acta forestalia fennica, 28:1) **Title tr.:** Researches into the economic and colonization conditions of Perä-Pohjola (the far North) and Lappi (Lapland), 1. Natural scientific and economic survey.

The area surveyed by the author comprised seven parishes in Finland (shown on map) between 70°05' and 66°04' N. lat. He gives data on "natural conditions": geographic characteristics, climate, resources, etc. Factors affecting arctic agriculture are presented: "such as geographical position, area,

elevation, configuration of the surface, description of rock, kinds of earth, water courses, climate, soil, vegetation, flora, and fauna." Social and economic conditions are analyzed (p. 41-113) in terms of population, vital statistics, Finns, character and customs of the Lapps in the far North; government ownership of land, communications, wages, animal husbandry and principal crops; as well as industries, such as hunting, fishing, trading, and mining. Recommendations are given for development of the area. Bibliography (130 items). Summary in English. **Copy seen:** DLC.

**23041. JUTILA, K. T.** Tutkimuksia Perä-Pohjolan ja Lapin talous-ja asutusoista, [2]. Varsinaisen itsehoidetun maatalouden pääomasuhteista. Helsinki, 1921. 239 p., tables. (Acta forestalia fennica, 18:3) **Title tr.:** Researches into the economic and colonization conditions of Perä-Pohjola (the far North) and Lappi (Lapland), [2]. Capital investment in owner-operated farms.

The capital value of livestock, equipment, savings, land, and buildings in East Lapland, West Lapland and the region farther north around Inari are tabulated and compared. Holdings are divided into five classes. Statistics show relationships between the value of farming equipment per head of stock, per hectare of farm land, crops or pasture; also value of stock per 100 hectares of farm land, pasture, crop and cropland; and value of stock and buildings per hectare of farm land, pasture, crops and cropland. Summary in German, p. 219-34; Finnish-German glossary, p. 235-39.

**Copy seen:** DLC.

**23042. JUTILA, K. T.** Tutkimuksia Perä-Pohjolan ja Lapin talous-ja asutusoista, 3. Maanviljelyksestä. Helsinki, 1926. 144 p., tables, fold. map. (Acta forestalia fennica, 1925. 28:2) **Title tr.:** Researches into the economic and colonization conditions of Perä-Pohjola (the far North) and Lappi (Lapland), 3. Plant cultivation.

The statistics are based on visits to 154 farms; climatic conditions and gardening are described briefly, and (in more detail) cultivation of arable land and natural meadows, also clearing and cultivation of new lands. Information on fertilizers used, crops, meadows on dry land, flood meadows, peat-bog meadows, clearing of land on mineral soil and on peat bogs, injurious insects and plant

diseases, costs of land clearing are given. Map shows "the northern limits of the general and accidental cultivation of certain cultivated plants and the holdings investigated." Bibliography (40 items). Summary in English.

**Copy seen:** DLC.

**23043. JUTILA, K. T.** Tutkimuksia Perä-Pohjolan ja Lapin talous-ja asutusoista, 4. Karjanhoidosta. Helsinki, 1926. 99 p., fold. map, tables. (Acta forestalia fennica, 28:3) **Title tr.:** Researches into the economic and colonization conditions of Perä-Pohjola (the far North) and Lappi (Lapland), 4. Animal husbandry.

History of animal husbandry in the area from 1700 to the present is given. Native care and use of horses, cattle and sheep are detailed, their winter feed, length of grazing season, pasture grasses, diseases (rare). The white, hornless cattle of northern and southern Finland are compared. Author remarks on the Lapps' use of ewes' milk in cheese making. Bibliography (about 50 items). Map shows localities and farms investigated.

**Copy seen:** DLC.

**23044. JUUSELA, TANELI K.** Salaojasyvyyskysymyksen selvittelyä. (Suomen maataloustieteellinen seura. Aikakauskirja, 1947. v. 19, no. 2, p. 60-68, tables) **Title tr.:** Determination of depth for drainage installations.

Contains description of sub-surface drainage of farm lands in Finland and Sweden, including northern areas with data on soil freezing and depth necessary for the drainage pipes to avoid frost damage. Bibliography (15 items). Summary in German.

**Copy seen:** DLC.

**23045. JUUSELA, TANELI K.** Viljelysmaiden routaantumisesta ja salaojitukseen vaikutuksesta roudan muodostumiseen ja sulamiseen. (Suomen maataloustieteellinen seura. Aikakauskirja, 1941. v. 13, no. 2, p. 81-95, tables, diagrs.) **Title tr.:** The formation of frost on cultivated lands and the effect of drainage on the formation and thawing of frost.

"The formation of ground frost depends on the temperature of air, depth and density of the snow cover, type and size of soil grains, type of vegetative cover, depth of ground water, soil moisture and the latent heat of the soil. Experiments of the effect of ground water and soil moisture upon the frost

penetration have been inconclusive. Recent experiments showed that a field saturated with water from an open ditch was frozen 10-15 per cent deeper than a similar field which had subsurface drainage. The results tend to indicate that the difference in freezing was caused by a smaller amount of ground water in the drained fields. Further investigations are needed for verification, as other factors are involved. The freezing of fields surrounded by open ditches is accelerated by the rounded form of the plots and by the greater heat conductivity in and near the ditches. The layer of frozen ground is not dense in the drained fields because the amount of ground water is smaller. Meltwater can penetrate the frozen ground layer in the spring and quicken the melting process."—SIPRE.

**Copy seen:** DLC.

**23046. K., A.** Sorciers et sorcières Tehoukthes. (Mélusine, 1894-95, v. 7, p. 135-37) **Title tr.:** Sorcerers and sorceresses of the Chukchis.

Translation (by Paul Boyer) of an article published in the Russian paper *Russkaja vedemosti*, 1894, nos. 228, 233, 243. It presents a story heard from a Yakut reindeer-sledge driver while the author was traveling in Siberia. The story deals with the power of Chukchi magicians: swift travel and favorable weather brought about by magic means; the deeds of a famous Yukaghir sorceress, Catherine, who healed the people by magic at long distance, and on whose grave offerings were laid by travelers; burial of a shaman.

**Copy seen:** DLC; InU.

**23047. K., F.** O primenenii zhirov i mazel dlia preduprezhdeniia otmorozheniia. (Voenno-sanitarnoe delo, 1943, no. 2-3; p. 63-65) **Title tr.:** On the use of fats and ointments in cold-injury prevention.

Contains an historical note on the use of fats and salves for preventing frostbite in earlier wars; prescriptions of ointments used by the Soviet army during the Finnish campaign (1939) and during the winter of 1941-42. The components of these salves are evaluated, and practical results of their use are indicated.

**Copy seen:** DLC.

**23048. K., I.** Kratkie itogi rabot rybovodnoi ekspeditsii na reke Kamchatke v 1930 godu. (Rybnoe khoziaistvo Dal'nego Vostoka, 1931, no. 1-2, p. 44-49) **Title tr.:** Brief summary of the work of

the Piscicultural Expedition on the Kamchatka River in 1930.

A report on the fish stock of the River Kamchatka and its tributaries, especially with regard to salmon, and on measures taken to prevent its depletion.

**Copy seen:** DLC.

**23049. K., I.** Opyty akklimatizatsii karasel na Kamchatke i krasnoi na Amure. (Rybnoe khoziaistvo Dal'nego Vostoka, 1931, no. 1-2, p. 49-53, illus.) **Title tr.:** Experiments in acclimatization of crucian-carp in Kamchatka and red-fish in the Amur. **Copy seen:** DLC.

**23050. K...I, L.** Finno-Ugorskoe plema. (In: Entsiklopedicheskii slovar', 1890-1904. v. 36, p. 9-12) **Title tr.:** The Finno-Ugrian tribes.

Account of this group of nomadic peoples, which includes Samoyeds, Lapps, Ostyaks, distributed from northern Scandinavia and the Baltic to central and eastern Russia; their various types and dialects; their migrations and successive settlements as traced on the basis of linguistic data (names of geographic features, etc.); their earthen huts and means of livelihood: hunting, fishing, cattle- and reindeer-breeding; social and political organizations; religious beliefs, the *Noita*=shaman, nature deities and ancestor worship; their physical characteristics; domestic life, clothing, etc.; influence of neighboring peoples on their culture. **Copy seen:** DLC.

**23051. KACHURIN, S. P.** Frozen grounds recede. (Akademika nauk SSSR. Comptes rendus (Doklady), 1938. nouv. ser., v. 19, no. 8, p. 595-99, diagr.)

"An investigation was made in 1937 by the Committee for the Study of Permafrost to determine the extent of permafrost degradation since [Middendorff's observations,] 1843 in the central areas of Yenisey. It was found that the southern permafrost boundary lies from 250 to 300 km. south of Turukhansk [ca. 65°47' N. 87°54' E.]. Small isolated areas of permafrost were found between the southern permafrost boundary and Turukhansk. This type of sporadic permafrost was most frequently encountered at a depth of 0.5 to 1.5 m. in the vicinity of Dashkino and Malimye lakes. Observations of sporadic permafrost at a depth of 10 to 11 m. indicated that the temperature continued to decrease. A comparison of 1937 data with Middendorff's 1843 data indicates a slow but steady

degradation of the permafrost of western Siberia."—SIPRE. **Copy seen:** DLC.

**KACHURIN, S. P.**, see also Tumel', V. F., & others. Merzlotnye usloviâ Dal'. sost. 1947. No. 26840.

**23052. KACHURINA, L. I.** Iz opyta vyrashehivaniâ lekarstvennykh rastenii v Pol'ârno-Al'pitskom sadu. (Moskva. Glavnyi botanicheskii sad Akademii nauk SSSR. Bûlleten', 1951. vyp. 8, p. 76-78) **Title tr.:** On the experience of growing medicinal plants in the Polar-Alpine Botanical Garden.

Contains notes on cultivation of nine medicinal plants (*Digitalis*, *Convallaria*, *Lobelia*, *Valeriana*, etc.) in the Polar-Alpine Botanical Garden in Khibiny, Kola Peninsula, in the years 1934-42.

**Copy seen:** MH-A.

**23053. KACHURINA, L. I.** Opyt akklimatizatsii kustarnikov v Pol'ârno-Al'pitskom sadu. (Moskva. Glavnyi botanicheskii sad Akademii nauk SSSR. Bûlleten', 1950, vyp. 5, p. 80-90) **Title tr.:** An attempt at the acclimatization of shrubs in the Polar-Alpine garden.

Contains the results of an experimental study of acclimatization of 120 shrubs from various geographic regions in the Polar-Alpine Garden in Khibiny, Kola Peninsula (67°40' N. lat.). The plants are divided into three biological groups by the length of their vegetation periods (see tables 1-3). **Copy seen:** MH-A.

**23054. KADOW, KENNETH.** Alaska on the march. (Alaskan, Fall 1949. v. 2, no. 3, p. 8-10, illus.)

Statement by the Director of the Alaska Field Staff, U. S. Dept. of the Interior, on the principal problems in development of Alaska: inadequate transportation, shortage of capital, agricultural lag, housing shortage, need for low-cost power, labor shortage. He gives also a review of Alaska's most promising natural resources.

**Copy seen:** DI.

**KAEMPFER, FRIEDRICH**, see Aschoff, J., & F. Kaempfer. Über den Wärmegedurchgang durch d. Haut. 1947. No. 20339.

**23055. KAGANOVSKIĬ, A. G.** Ikh-tiologicheskie issledovaniâ na Dal'nem Vostoke za XV let sovetskoi vlasti. (Akademiâ nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1938, no. 30 (3), p. 191-99, plate) **Title tr.:** Ichthyological investigations in the Far

Eastern Region during 15 years of Soviet power.

Contains a brief survey of ichthyological investigations of the Far Eastern seas before the Revolution of 1917, and a more detailed review of work in Soviet period, including investigations of salmon, herring, bottom fishes, fresh-water fishes, marine fishes of secondary commercial importance, and marine mammals; the geographical region of the investigations includes Okhotsk Sea, Bering Sea, and Chukchi Sea.

**Copy seen:** DLC; MH-A.

**23056. KAGANOVSKIĬ, A. G.** Promyslovye ryby reki Anadyr'â i Anadyr'skogo limana. (Akademiâ nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1933, no. 1-2-3, p. 137-39) **Title tr.:** Commercial fishes of the Anadyr' River and Anadyr' regions.

Contains short characterizations of 16 species (out of 31) of fishes of commercial importance, native to the Anadyr' River and its estuary, with data on their time of migration, average breeding sizes and weights and the fishing gear used. Summary in English.

**Copy seen:** DLC; MH-A.

**23057. KAIKKO, JOH.** Maiseman vuodenaikainen rytmi suomen kasvi-peitteessä ja tekemuodostossa. (Terra, 1945, v. 57, no. 2, p. 69-78) **Title tr.:** The yearly rhythm of the Finnish landscape in the vegetation cover and land surface.

Includes data on effect of snow; the times of budding and leafing and leaf-fall of various tree species in different (including northern) parts of Finland. Bibliography (15 items). Summary in German.

**Copy seen:** DLC.

**23058. KAIKKO, JOH.** Suomen maanti-eellisten alueiden maisematieteelliset vuodenaajat ja maiseman rytmikaavat. (Terra, 1942. v. 54, no. 3-4, p. 229-43, tables, diagrs.) **Title tr.:** The rhythmic and seasonal changes of the landscape in the geographical areas of Finland.

On the basis of observations of dates of the budding and leaf-fall of birch, also weather bureau statistics, author tabulates duration of spring, summer, fall, winter and snow cover. Also changes of ground-water level, for 19 districts of Finland, of which five are in the North. These districts are further sub-divided (as

indicated on maps). Summary in German.  
**Copy seen:** DLC.

**23059. KAILA, E. E.** Siperian meritie. (Terra, 1916. v. 28, p. 315-22, illus.)  
**Title tr.:** The Siberian sea route.

Author points out that the natural wealth of Siberia is valueless except locally, until inexpensive large-scale transportation is made available namely by a northern sea route. He sketches history of trade in northern Siberia; reviews Nansen's investigations in the Yenisey River and Kara Sea (commercial voyage of the *Korrekt* 1913); suggests aids towards utilizing the route to the Ob' and Yenisey for at least one-two months a year.

**Copy seen:** DLC.

**23060. KAILA, TOIVO TORSTEN, 1884-** Die finnisch-ugrischen Völker in Sovjetrussland; demographische Daten. (Suomalais-ugrilainen seura. Aikakauskirja, 1928. v. 42, no. 5, p. 1-14)  
**Title tr.:** The Finno-Ugric peoples in Soviet Russia; demographic data.

Contains critical evaluation of statistics from the census of 1926. Total number of people, still speaking a Finno-Ugric language as a "mother tongue" in 1926 was 3,160,600, or 2.19 per cent of the entire population of the U.S.S.R. Among these are 1720 Lapps and 1700 Finns in Murmansk government; 2300 Finns, and 100,800 Karelians in Soviet Karelia; 220,400 Zyryans, of whom 191,200 are in Komi A.S.S.R.; 18,600 Ostyaks and 5200 Voguls, most of them in districts in the Tobolsk and Tomsk, Ob' basin and Urals. These data are presented (among others) with a real breakdown, and compared with the 1897 census figures.

**Copy seen:** InU.

**23061. KAIRAMO, ALFRED OSWALD, 1858-1938.** Kuolan 1887 vuoden retkikunta ja Suomen Maantieteellinen Seura. (Terra, 1938. v. 50, no. 1-2, p. 9-56, incl. 8 plates) **Title tr.:** The 1887 expedition to Kola and the Finnish Geographical Society.

In the 50th anniversary number of the Society's journal, the author outlines this first major expedition outside Finnish territory 1887-92 (for its published results see *Arctic Bibliography*, No. 19627), and illustrates it with 32 photographs which he, the botanist with the eight-man party, took during this period. He gives biographical notes on the expedition members and summary of their scientific conclusions (Wm. Ramsay:

geology, Kairamo; botany, Palmén; zoology); remarks also on other Finnish explorers of the Kola region and their connection with the Finnish Geographical Society. The Society's Ramsay medal is shown on p. 56. Summary in German.

**Copy seen:** DLC.

**23062. KAIRAMO, ALFRED OSWALD, 1858-1938.** Nattfrosterna i Finland 1892. Helsingfors, 1893. 42 p., 3 fold. maps, tables. (Fennia, 8:4) **Title tr.:** Night frosts in Finland in 1892.

Account based on reports of 515 voluntary observers. The individual cases are tabulated and mapped. The frosts are also presented chronologically within the framework of the general climatic conditions, and also arranged according to provinces. Damage to the more common cultivated and edible plants is noted.

**Copy seen:** DLC.

**23063. KAIRAMO, ALFRED OSWALD, 1858-1938.** Nattfrosterna i Finland 1893. Helsingfors, 1895. 66 p., 4 fold. maps, tables. (Fennia, 10:3) **Title tr.:** Night frosts in Finland in 1893.

Report on observations similar to those arranged by the same author during the summer 1892, but with an increased number of observers (619). Presentation and analysis are similar to the previous year's report, q. v. **Copy seen:** DLC.

**23064. KAIRAMO, ALFRED OSWALD, 1858-1938.** Nattfrosterna i Finland 1894. Helsingfors, 1896. 43 p., fold. map. (Fennia 12:4) **Title tr.:** Night frosts in Finland in 1893.

An account on night frosts that occurred during the warm period (May-Sept.) of 1894. A chronological listing of these frosts is offered, together with information of their degree and extent, meteorological conditions and frost damage to economically important plants. Summary in German. **Copy seen:** DLC.

**23065. KAIRAMO, ALFRED OSWALD, 1858-1938.** Pflanzenphänologische Beobachtungen in Finland 1895. (Bidrag till kännedom af Finlands natur och folk, 1900. Häfte 58, p. 1-45, (tables)) **Title tr.:** Plant phenological observations in Finland, 1895.

Observations from 85 stations, ten of them above the Arctic Circle. Deals with main phenological manifestations of common plants. Material is arranged according to stations. Reports for succeeding years (that for 1945 latest seen)

were prepared by M. Reuter (for 1896-1902, 1912, 1918-45), and V. F. Brotherus (for 1903-11, 1913-17), q. v.

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**KAIRAMO, ALFRED OSWALD, 1858-1938**, see also Sahlberg, J. R. *Catalogus Coleopterorum. 1899. No. 25773.*

**23066. KAISILA, JOUKO.** Eräitä teorioita Euroopan perhosfaunan kehityksestä. (Suomen hyönteistieteellinen aikakauskirja, 1947. v. 13, no. 1, p. 11-16, map) *Title tr.:* Various theories on the development of Europe's butterfly fauna.

Discusses theories in the older literature of B. Poppius, Ernst Hofman, Groum-Grshimäilo, W. Petersen, and more recent work of C. Hormuzaki, H. Rebel and A. Caradja; the ice age types of butterflies (now occurring in the Alps and northern Europe) and the Siberian and Mediterranean types which are post-ice age in origin.

*Copy seen:* DLC.

**23067. KAISILA, JOUKO.** Die Makrolepidopterenfauna des Aunus-Gebietes. Helsinki, 1947. 112 p. 12 plates, 63 diagrs., illus., map. (Acta entomologica fennica. Suomen hyönteistieteellinen seura. Societas entomologica fennica. Helsingfors, 1) *Title tr.:* The large butterflies in the Aunus area.

Contains a study of 623 species of large butterflies found in the Aunus area around Lakes Ladoga and Onega. Of particular interest are 16 of the 63 distribution maps which show arctic habitats for 16 species of these butterflies in Fennoscandia. Bibliography (120 items). Summary in Finnish, p. 88-89.

*Copy seen:* DLC.

**23068. KAITERA, PENTTI.** Keeping water from freezing by means of compressed air. (International Geodetic and Geophysical Union. Association of Scientific Hydrology. Assemblée générale d'Oslo, 1948. Procès-verbaux. t. 2. Travaux de la Commission de la Neige et des Glaciers, pub. 1950? p. 390-98, illus., tables)

Description of methods used, detailed discussion of results of experiments, tabular record of results on Finnish lakes and Gulf of Finland during the winter of 1940, and remarks on practical application of the method in Finland.

*Copy seen:* DGS.

**23069. KAITERA, PENTTI.** Pohjois-Suomen taloudellisten mahdollisuuksien

hyväksikäyttämisestä. (Teknillinen aikakauslehti, Mar. 10, 1950. v. 40, no. 3, p. 53-59, maps) *Title tr.:* Utilization of the economic resources of northern Finland.

The northern half of Finland has 15 percent of the country's population and about half the industrial production expected from that percentage. For exploitation of the economic reserve in this region, new industries must be established: power plants have been built; 55 percent of the country's water power, "half of the cultivatable land including arable fields, and about 38 percent of the forests" is in the North. Author suggests expansion and new establishments in wood-working, artificial silk, iron, chemical industries; fodder and cattle-raising, forestry research. Summary in English, p. 68.

*Copy seen:* DLC.

**23070. KAITERA, PENTTI, and K. V. HELENELUND.** Roudan syvyydestä ja sen vaikutuksesta rakennusperustusten sekä vesi- ja likavesijohtojen syvyyten. (Teknillinen aikakauslehti, 1947. v. 37, p. 390-95, 1948, v. 38, p. 2-8, 40, illus., tables maps) *Title tr.:* The depth of ground frost and its influence on the depth of foundations and of water and sewage pipe lines.

"The influence of climatic and terrain conditions on the depth of ground frost is explained. Also the earlier researches in Finland. . . . The variations of the depth of ground frost under various conditions are explained, based on 2,060 measurements . . . taken in the spring of 1947. The influence of the nature of the depth of the ground frost is shown by the following ratios: moraine, gravel and sand, 100; sand and clay, 85-90; peat 50 . . . The frost-free depth in coarse-grained mineral soil and unprotected places is accounted for . . . by observing the average temperature of the winter months and the way in which water pipes have frozen in various parts of the country." The influence of snow cover is dealt with also.—From English abstract, p. 40.

*Copy seen:* DLC.

**23071. KAITERA, PENTTI.** Selvitystä Pohjois-Suomen vesivoiman käytöstä. (Teknillinen aikakauslehti, 1950. v. 40, no. 10, p. 208) *Title tr.:* The exploitation of the water power of northern Finland.

Challenging the view of N. Saarivirta in a paper with this title q. v., Kaitera presents here data on cost of transmitting

power from northern to southern parts of the country. He argues that this cost offsets the cheapness of the northern power production and suggests utilization of the power for development of northern localities.

**Copy seen:** DLC.

**23072. KAJAVA, YRJÖ, 1884-1929, editor.** Beiträge zur Kenntnis der Rasseneigenschaften der Lappen Finnlands, hauptsächlich nach den Untersuchungen von Dr. Arvo Elfving. Helsinki, 1925. 43 p., tables. (Suomalainen tiedeakatemia. Annales Academiae Scientiarum Fennicae, A25:1) **Title tr.:** Contributions to the knowledge of the racial characteristics of the Finnish Lapps; chiefly according to the investigations of Dr. Arvo Elfving.

**Contains** (on the basis of data on 159 adults and 26 children collected by Dr. Elfving while district physician at Inari in 1912-14) an historical review of earlier anthropometric studies of Lapps in various parts of Sweden, Norway, Finland and Kola Peninsula (p. 3-13); description of the material collected by Elfving; conclusions based on measurements of the body and extremities; also skull and on eye and hair color. Bibliography (28 items).

**Copy seen:** DLC.

**23073. KALABUKHOV, N. I.** "Anabioz" u pozvonochnykh i nasekomykh pri temperature nizhe 0°. K voprosu o pereokhlazhdenii i zamorazhivanii zhivotnykh. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1934. nouv. ser., v. 1, no. 7, p. 419-26, illus., tables) **Title tr.:** "Anabiosis" in vertebrates and insects at a temperature below zero. On overcooling and freezing of animals.

Experiments designed to determine the cold tolerance of several vertebrates and insects. The causes of cold-death and survival are analyzed. Summary in English.

**Copy seen:** DLC.

**23074. KALELA, AARNO.** Kasvinaantieteilijän huomioita Skandinavianmatalta. (Terra, 1949. v. 61, no. 3, p. 117-28, illus.) **Title tr.:** Observations by an agricultural expert on a trip through Scandinavia.

**Contains** brief phytogeographic comment on the country traversed during a Finnish natural history and geography teachers' trip in the summer of 1948, the party traveling from Helsinki-Stockholm-Oslo to northern Norway and Sweden. Includes comparison with flora of western Canada. Summary in German.

**Copy seen:** DLC.

**23075. KALELA, AARNO.** Über Wiesen und Wiesenartige Pflanzengesellschaften auf der Fischerhalbinsel in Petsamo Lappland. Helsinki, 1939. 523 p. plate, 110 tables, 3 maps. (Acta forestalia fennica, v. 48, no. 2) **Title tr.:** On the meadows and meadow plant associations of Rybachiy Peninsula in Petsamo Lapland.

**Contains** sections on the physical geography of the Rybachiy Peninsula (69°40' N., 32°40' E. north coast of Kola Peninsula); methods applied; material; the vegetation of the area (classified according to climatic and soil criteria); types and subtypes of meadows, including snow meadows, arctic bush-meadows (p. 85-376); swampy meadows, moor-meadows, moors, etc. (p. 377-512). Some meadows are classified according to their main plant component (*Rimpia* meadows, etc.). Bibliography (about 200 items).

**Copy seen:** DLC.

**23076. KALELA, AARNO.** Zur Synthese der experimentellen Untersuchungen über Klima-Rassen der Holzarten. Helsinki, 1937. 447 p., tables. (Helsingfors. Metsätieteilinen tutkimuslaitos. Julkaisu, 26) **Title tr.:** On the synthesis of the experimental investigations regarding climatic races of tree species.

**Contains** data on 14 tree species including several distributed in various northern countries: *Pinus silvestris*, *Pinus contorta*, *Picea excelsa*, *Picea sikaensis*, *Picea engelmannii*, *Abies pectinata*, *Pseudotsuga douglasii*, *Tsuga heterophylla*, *Larix europaea*, *Larix kurilensis* and *L. dahurica*, *Fagus sylvatica*, *Quercus robur*, *Acer pseudoplatanus*, and *Frazinus excelsior*. Bibliography (275 items). Summary in Finnish, p. 435-45.

**Copy seen:** DLC.

**23077. KALELA, ERKKI K.** Vakuutetuissa metsissä vuosina 1925-34 sattuneista kuloista. Helsinki, 1937. 55 p., maps, tables. (Acta forestalia fennica, 46:2) **Title tr.:** Fires that occurred in privately insured forests 1929-34.

**Data** on earlier publications on fires in privately (i. e. not state)-owned forests; statistics on fires 1925-34; and the local occurrence of fires including starting, burning, and spreading danger of fires by area in Finland. Summary in German, p. 48-55.

**Copy seen:** DLC.

**23078. KALELA, OLAVI.** Einige Konsequenzen aus der regionalen Intensitätsvariation im Massenwechsel der Säugetiere.

tiere und Vögel. Helsinki, 1951. 31 p. tables, diagrs., map. (Suomalainen eläin- ja kasvitieteellinen seura vanamo. Eläintieteellisiä julkaisuja, osa 14, no. 5) **Title tr.:** Some consequences of the regional intensity-variation in the mass change of mammals and birds.

**Contains** an analysis showing that the numerical reliability of animal population-statistics depends on regional differences, specifically on the fact that short-term fluctuations in the numbers of many animals weaken from the arctic areas towards the south. The study is based on several sources and is primarily concerned with population statistics of Norway, Finland, Labrador and Greenland. Species of fox form the main object of the analysis. Bibliography (29 items). Summary in English.

**Copy seen:** DLC.

**23079. KALELA, OLAVI.** Tunturisop-  
ulin vauelluksista ja niiden biologisesta  
merkityksestä. (Luonnon tutkija, 1950.  
v. 54, no. 1, p. 1-5, illus., maps) **Title**  
**tr.:** The migrations of the arctic plateau  
lemming and their biological significance.

**Contains** data on the characteristics of  
lemmings (*Lemmus lemmus*) on the basis  
of their migrations during 1894-95,  
1902-03, 1907, 1930, 1937-38, 1941-42,  
and 1945-46 in Finnish Lapland. Data  
also on the migrations of the snowy owl,  
red starling and the crossbill. Maps  
show the areas of migration.

**Copy seen:** DLC.

**23080. KALELA, OLAVI.** Über die  
"Lemmingjahre" 1937-38 in Finnisch-  
Lapland, nebst einigen Bemerkungen  
zur Frage der Massenzunahme und  
Ausbreitung. Helsinki, 1941. iv, 74 p.,  
illus. (map, tables). (Suomalainen eläin-  
ja kasvitieteellinen seura vanamo. Eläin-  
tieteellisiä julkaisuja, osa 8, no. 5) **Title**  
**tr.:** On the "lemming years"  
1937-38 in Finnish Lapland, with some  
remarks on population increase and  
dispersal.

**Following** a characterization of a  
"normal" distributional pattern of the  
lemming in the area and their earlier  
migration year, the author describes for  
1937-38: the population growth in the  
spring of 1937, the migration period  
during the early part of the year, the  
rest period of midsummer and a fall  
migration, 1938, noting the end phases  
and direction of migration. He discusses  
the reproductive relationships and place

of growth and the relation of meteorolog-  
ical conditions and increase-rhythm to  
the population growth and migration.  
The parallel and subsequent appearances  
of other rodents, certain rapacious mam-  
mals and birds, and woodland birds are  
noted in relation to lemming increase.  
The larger problem of extension of habitat  
by virtue of population increase, is con-  
sidered finally as well as the general  
question of increase and migration.  
Bibliography (71 items). Summary in  
Finnish.  
**Copy seen:** DSI-M.

**23081. KALELA, OLAVI.** Zur Periodi-  
zität im Massenwechsel arktisch-hoch-  
boreale Kleinnager. (Suomalainen eläin-  
ja kasvitieteellinen seura vanamo. Tied-  
onannot ja pöytäkirjat, 1948. No. 3,  
p. 169-78, tables, diagrs.) **Title tr.:**  
On the periodicity in the mass-changes of  
the arctic-high boreal, small rodents.

**Contains** an analysis and discussion  
of the periodicity of very high population  
numbers among small arctic rodents  
(especially lemmings), and other arctic  
animals, such as foxes. The different  
cycles (4 and 10 years, 3½ and 10 years,  
etc.) in various species and the inter-  
relationships of cycles between the  
species are studied; the parallelism with  
the ten-year cycle in the rejuvenation  
process of pines in Finland is also touched  
upon. Bibliography. (about 20 items).

**Copy seen:** CaMAI.

**KALELA, OLAVI, see also** Hustich, I.,  
ed. Recent climatic fluctuations Finland;  
symposium. 1952. No. 22755.

**KALESNIK, S. V., see** Samoilovich, R.  
L., & others. Geologičeskii Arktiki. 1937.  
No. 25812.

**23082. KALETINA, E. I.** Issledovanie  
sostava otdel'nykh chastel tela sinego  
kita. (Vladivostok. Tikhookeanskii  
nauchno-issled. institut rybnogo-khozia-  
istva i okeanografii. Izvestiia, 1939. t. 17,  
p. 123-30, illus.) **Title tr.:** Investigation  
of the content of various parts of the  
body of the blue whale.

**Contains** chemical analyses of various  
parts of the body (meat, skin, bones, etc.)  
of the blue whale (*Balaenoptera musculus*)  
and data on physical and chemical char-  
acteristics of its fats (adipose tissues, bone  
marrow, etc.); based on the investigation  
of a specimen killed in Kronotskiy Bay  
in Bering Sea.  
**Copy seen:** MH-Z

**23083. KALIMA, JALO, 1884-1952.**  
Bibliographie der finnisch-ugrischen

Sprach- und Volkskunde für das Jahr 1903. (Finnisch-ugrische Forschungen, 1908. Anzeiger, Bd. 8, no. 1-3, p. 1-161) **Title tr.:** Bibliography of the Finno-Ugric linguistics and folklore for 1903.

*Contains* among others, works on the Lapps (p. 83, 135-36), Zyryans (p. 90-94), Ostyaks and Voguls (p. 86-103, 136-37). This is a continuation of an annual bibliography initiated in 1900 by E. N. Setälä, q. v.

**Copy seen:** DLC; InU.

**23084. KALIMA, JALO, 1884-1952.** Bibliographie der finnisch-ugrischen Sprach- und Volkskunde für das Jahr 1904. (Finnisch-ugrische Forschungen, 1909. Anzeiger, Bd. 9, no. 2-3, p. 33-199) **Title tr.:** Bibliography of the Finno-Ugric linguistics and folklore for 1904.

*Contains* among others, works on Lapps (p. 115-18), Zyryans (p. 122-24), Voguls and Ostyaks (p. 126-32).

**Copy seen:** DLC; InU.

**23085. KALIMA, JALO, 1884-1952.** Etymologische Streifzüge. (Finnisch-ugrische Forschungen, 1923-24. Bd. 16, p. 64-74) **Title tr.:** Raids for etymologies.

*Contains* among other things the etymologies of: Lapp *kalugere* (go away), *pääsi* (to sweep); Zyryan *meg* (roundabout way); Ostyak word for a constable.

**Copy seen:** InU.

**23086. KALIMA, JALO, 1884-1952.** Die russischen Lehnwörter im Syrjänischen. Helsingfors, Suomalais-ugrilainen seura, 1910. 187 p. (Suomalais-ugrilainen seura. Toimituksia, no. 29) **Title tr.:** The Russian loan words in the Zyryan language.

Russian influence has been very great on the Zyryans and is obvious in all the branches of their cultural life. Loan words from the Russian are numerous, though this influence is not very old. The adoption of Russian words has been common since the 14th century, due to the political subjugation of the Zyryans to the Russians of Novgorod, and through the influence of the Orthodox Church. Formerly the Zyryans lived more to the South, and the migration to the North began between the 8th and 12th centuries. Even in the 20th century there are still some Zyryans living in the north-western part of the Perm government and in the northern part of Vjatka government. **Copy seen:** DLC; InU.

**23087. KALIMA, JALO, 1884-1952.** Syrjänisches Lehngut im Russischen. (Finnisch-ugrische Forschungen, 1927. Bd. 18, p. 1-56) **Title tr.:** Zyryan loans to the Russians.

*Contains* a linguistic study of loan words (following a survey of earlier work by A. J. Sjögren, M. Weske, and A. L. Pogodin). 51 cases of common sounds in Zyryan and Russian are indicated, and a vocabulary with linguistic analyses given of words taken over by the Russians from the Zyryan language (p. 14-51). The greatest number of loan words concern geographic features, e. g. a spring, creek, iron-rich morass, etc. Terms for agricultural and cattle-breeding objects are more numerous than those for hunting and fishing. The Zyryan words became popular with the Russians in the Ural region, and were carried further eastwards to Siberia. The territory inhabited by the Zyryans, according to the toponymies, formerly was around the mouth of the Northern Dvina. Later the Zyryans traveled to the Omega region, to Kola Peninsula in the West, and to the upper course of the Ob' and Katusin in the East. They migrated, not as a body but sporadically and usually were absorbed and lost their language in these regions already densely populated. The name "Zyryan" is of Ob'-Ugrian origin, cf. Vogulian and Ostyak *saran*, or *sarajax* = "a Zyryan."

**Copy seen:** DLC; InU.

**23088. KALIMA, TAUNO.** Über die wundheilende und hämostyptische Eigenschaft des Spinnengewebes. (Suomalainen tiediakatemia. Sitzungsberichte, 1947, pub. 1949, p. 147-57) **Title tr.:** On the wound healing and haemo-styptic properties of the spider's web.

*Contains* account of the belief among Finns and several other peoples that cobweb placed upon a fresh wound, can stop its bleeding, and also can cure chronic ulcers. The author's experiments which confirmed the cobweb's being able to stop a violent bleeding are reported, as are bacteriological analyses which showed the cobweb to have penicillium, aspergillus and in some cases, another rare species of fungus.

**Copy seen:** DLC.

**23089. KALININ, P. K.** Pshenitsa za Poljarnym krugom. (Karelo-Murmanskii krai, 1934, v. 12, no. 1-2, p. 27-29, illus.) **Title tr.:** Wheat beyond the Arctic Circle.

Stressing the successful introduction of various vegetables, oats and barley into the Kola Peninsula, the author gives a detailed report on experiments conducted in 1932 and 1933 with the aim of introducing wheat into the arctic area. Out of hundreds of varieties from all over the world, several were found suitable for the region; data on germination, growth and yield of the successful varieties are supplied.

**Copy seen:** DLC.

**23090. KALITIN, NIKOLAI NIKOLAEVICH, 1884-1949.** Quelques données sur la transparence de la glace pour la radiation ultra-violette du soleil. (Akademiâ nauk SSSR. Comptes rendus, 1935. nouv. ser., v. 4, no. 3, p. 145-46, tables) **Title tr.:** Some data on the transparency of ice to ultra-violet solar radiation of the sun.

Also published in Russian, *Neskol'ko dannyykh o prozrachnosti l'da dlia ul'trafioletrovogo radiatsii solnca*. (Akademiâ nauk SSSR. Doklady, 1935. v. 9, no. 72, p. 137-38, incl. tables.)

"Pure river ice 10 cm. thick, transmitted approximately 98 per cent of solar radiation in the ultraviolet. Ice samples, identical in size, but containing minute air bubbles transmitted about 60 per cent of ultraviolet radiation. The transparency decreased with increase in the thickness of the ice. When a sample of river ice was 107 cm. thick, the transmission of ultraviolet rays dropped to 51 per cent. The rays varied in length from 3320 to 4460 Å."—SIPRE.

**Copy seen:** DLC.

**23091. KALITIN, NIKOLAI NIKOLAEVICH, 1884-1949.** Razvitie aktinometricheskikh rabot v SSSR za poslednie 30 let. (Akademiâ nauk SSSR. Izvestiâ. Seriya geograficheskaya i geofizicheskaya, 1947. t. 11, no. 5, p. 433-99, text map) **Title tr.:** Progress of actinometric observations in the U.S.S.R. during the last 30 years.

Contains data on the development of investigations of solar radiation and organization of the net of actinometric stations, established during the period 1917-47, including the stations built by the Arctic Institute of the U.S.S.R., p. 434-35 (see also text map).

**Copy seen:** MH.

**23092. KALITIN, NIKOLAI NIKOLAEVICH, 1884-1949.** Relation between the supply of solar and scattered radiation

under different climatic conditions. (Akademiâ nauk SSSR. Comptes rendus (Doklady), 1946. nouv. ser., v. 53, no. 3, p. 205-207, illus., tables)

Monthly values of solar and scattered radiation are offered for: Yakutsk, Pavlovsk, Karadagand, Tashkent and their relation analyzed. The share of scattered radiation in the total heat supplied was found quite substantial in all climates investigated.

**Copy seen:** DLC.

**23093. KALLINIKOV, N. F.** Nash kraññ Severo-Vostok. S.-Peterburg, Tip. Morskogo ministerstva, 1912. 246 p., illus., 2 fold. maps. **Title tr.:** Our far Northeast.

Account of the natural and economic conditions of Chukotsk Peninsula with (p. 197-232) a similar but brief account of Alaska. Observations on the geography, native populations and their customs, dress, religion and way of daily life; natural resources, and industry; hunting and fishing; communications and trade. Result of a two-year official trip (1908-10) to study the "natural-economic" conditions of the area.

**Copy seen:** DLC.

**23094. KALLIO, NILO.** Über die Windverhältnisse der freien Atmosphäre in Petsamo (69°35' N., 31°12' E.) in Sommer 1926. Helsingfors, 1928. 27 p., tables. (Finska vetenskaps-societeten. Commentationes physico-mathematicae, 4:17) **Title tr.:** On wind conditions of the free atmosphere in Petsamo (69°35' N., 31°12' E.) during the summer of 1926.

**Copy seen:** DLC.

**23095. KALLIOLA, REINO.** Luonnon-suojelualueisiimme tutustumaan! (Luonnon tutkija, 1947. v. 51, no. 3, p. 93-94, map) **Title tr.:** Becoming familiar with our nature protection areas.

Contains brief sketch on the value of areas where animal and plant life are preserved, with a map showing locations of such areas in Finnish, including seven north of the Arctic Circle.

**Copy seen:** DLC.

**23096. KALLIOLA, REINO.** Tunturimittari (*Oporinia autumnata*), subalpiinisten koivikoiden tuholainen. (Luonnon tutkija, 1941. v. 45, no. 2, p. 53-60, illus.) **Title tr.:** Tunturimittari (*Oporinia autumnata*) a sub-alpine insect injurious to birch.

Contains sketch of earlier studies, data on the damage to birch in Finnish and

Swedish Lapland by the tunturimittari butterfly during its chrysalis stage. Though this species occurs in more southerly regions, it swarms and does damage mainly in the North, under conditions discussed by the author.

**Copy seen:** DLC.

**23097. KALLO, SUOMA.** Suomen ja sen läänien keskikorkeus. (Terra, 1925. v. 37, no. 3-4, p. 160-62, diags.) **Title tr.:** The elevation of Finland and its constituent parts.

**Contains** data on the average altitude of the Petsamo region in comparison with nine other sections of Finland.

**Copy seen:** DLC.

**23098. KAL'VARI, GENRIKH.** Gorod na Severe. [Novosibirsk] Ogiz, Zapsibod-nie, 1931. 68 p., map on cover. **Title tr.:** A town in the North.

**Story** of a trip to, and life in, Igarka.

**Copy seen:** DLC.

**23099. KAMANIN, LEV GEORGIEVICH, 1904-** . Pervye issledovateli Dal'nego Vostoka. Moskva, Gos. izd-vo geog. lit-ry, 1946. 77 p. ports., text maps. (Russkie puteshestvenniki) **Title tr.:** First explorers of the Far East.

**Contents (tr.) include:** Vladimir Atlasov and the discovery of Kamchatka, p. 5-15. The first explorer of Kamchatka [S. P. Krashenninnikov] p. 17-37; and The journey of Vasilii Pofarkov from Yakutsk to the Amur River and the Okhotsk Sea, p. 38-49.

This is a popular account of the travels of the earliest explorers of eastern Siberia and Kamchatka: Pofarkov, 1643-46, Atlasov 1697-99, Krashenninnikov 1736-41; with data on their achievements, collections and publications (Krashenninnikov). A second, enlarged edition (150 p.) was published in Moscow in 1951.

**Copy seen:** DLC; MH.

**23100. KAMCHATSKAIA PRAVDA.** Kamchatskie torfianiki. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1932. no. 3-4, p. 86) **Title tr.:** Peat bogs of Kamchatka Peninsula.

**Contains** data on peat bogs of the western (Okhotsk Sea) coast, collected by the Expedition of Peat Institute of the Lenin Academy of Agriculture in 1931; extracted from an article in *Kamchatskaia pravda*, 1932, no. 980.

**Copy seen:** DLC; MH-A.

**23101. KAMPE, H. J., and others.** The influence of temperature on the shape of ice crystals growing at water saturation. (Journal of meteorology, June 1951. v. 8, p. 168-74, illus.) **Other authors:** H. K. Weickmann and J. J. Kelly.

**Based** on studies carried out in a room-size cold chamber. "It was found that the principal shape of ice crystals (i. e. column- and plate-like forms) alternate with decreasing temperature, and that the mechanism of ice crystal formation is apparently more complicated than existing theories and previous experiments indicate."—From authors' abstract. Bibliography (11 items). **Copy seen:** DGS.

**23102. KAMSHILOV, M. M., and N. V. MIRONOVA.** Pitanie mal'kov treskovykh ryb presnovodnymi rakoobraznymi. (Akademiia nauk SSSR. Doklady. Novaya seriia, 1950. t. 73, no. 5, p. 1097-99) **Title tr.:** Fresh-water crustaceans as food of the larvae of codfish.

**Contains** a study (carried out in 1949 in Yaryshnaya Bay on the eastern Murman coast) of the stomach content of the larvae of gadoid fishes, and the role of fresh-water crustaceans brought into the bay by a small river, as food for the codfish larvae.

**Copy seen:** DLC; MH-Z.

**23103. KANAIEV, I. I.** Gidra; ocherki po biologii presnovodnykh polipov. Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1952. 370 p. illus. (186 fig.). (Akademiia nauk SSSR. Seriia "Itogi i problemy sovremennoi nauki") **Title tr.:** Hydra; an essay on biology of fresh-water polyps.

**Contains** chapters on history of the study of Hydra (p. 5-18); its systematics and distribution (p. 19-30); morphology (p. 37-96); ecology and physiology (p. 97-176); reproduction (p. 177-238); regulation (p. 239-333). **Supplement** (p. 334-70) has remarks on Hydra for beginners, bibliography (about 650 entries); subject index; index of Latin names. Species native to arctic regions, e. g. *Hydra oligactis* (Solovetskiye Islands) and *H. braueri* (Greenland) are included in the study. **Copy seen:** MH-Z.

**23104. KANERVA, NILO.** Über das Vorkommen von *Laurentia ruberata* Fr. in Finland. (Notulae entomologicae, 1925. v. 5, no. 3, p. 98-99, illus.) **Title tr.:** On occurrence of *Laurentia ruberata* Fr. in Finland.

Contains brief data on many specimens (in the Lepidoptera collection of Helsinki Museum) of *Laurentia ruberata* and a closely related species *L. autumnalis*, from Finnish Lapland and Kuusamo region, northern Lapland.

**Copy seen:** DLC; MH-Z.

**23105. KANERVO, ERKKI.** Einige neue Syrphiden aus Petsamo. (Suomalainen eläin- ja kasvitieteellinen seura vanamo. Julkaisuja, 1934. 14:5, p. 115-35) **Title tr.:** Some new syrphids from Petsamo.

Description of 21 new species and varieties of these flies; result of the author's work in the region in 1928 and 1930.

**Copy seen:** DLC.

**23106. KANERVO, ERKKI.** Die Syrphiden des Petsamo-Gebietes. (Notulae entomologicae, 1931. v. 11, no. 3-4, p. 136-41) **Title tr.:** Syrphidae of the Petsamo region.

Contains a zoogeographic study of the fauna of syrphus flies of Petsamo region, Finnish Lapland, with a discussion of the origin, development and subdivision into four natural groups, including references to some new species described by the author (*Eristalis vallei* and *Platycheirus angustilarsis* n. spp.)

**Copy seen:** DLC; MH-Z.

**23107. KANERVO, ERKKI.** Syrphiden (Dipt.) aus Finnish-Lapland, gesammelt von R. Frey und W. Hellén. (Notulae entomologicae, 1938. v. 18, no. 1, p. 4-10) **Title tr.:** Syrphidae (Dipt.) from Finnish Lapland collected by R. Frey and W. Hellén.

Contains a systematic list of 58 species and ten forms of syrphus flies collected in Finnish Lapland, with localities and ecological data.

**Copy seen:** DLC; MH-Z.

**23108. KANERVO, ERKKI.** Die Syrphidenfauna (Dipt.) Sibiriens in vorläufiger Zusammenstellung. (Suomen hyönteistieteellinen aikakauskirja, 1938. 4:3, p. 145-70, illus.) **Title tr.:** The syrphid fauna of Siberia, in a temporary arrangement.

About 100 species of these flies are listed and several new species described. Includes many collected in the far North (Dudinka, Kara River, Lena River, etc.) and Kamchatka.

**Copy seen:** DLC.

**23109. KANGAS, ESKO.** *Syneta betulae* F. (Col., Chrysomelidae) als Fichten-schädling in Nordnorwegen. (Suomen

hyönteistieteellinen aikakauskirja, 1948. 14:1, p. 19-22, illus.) **Title tr.:** *Syneta betulae* F. (Col., Chrysomelidae) as spruce pest in northern Norway.

This beetle which normally lives on and damages birch trees, is here reported to attack spruce trees; the manner and extent of damage is described. Bibliography (12 items).

**Copy seen:** DLC.

**23110. KANGAS, ESKO.** Tutkimuksia mäntytaimistotuhoista ja niiden merkityksestä. Helsinki, 1927. 304 p., 25 illus. on 5 plates, tables, map. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 24:1) **Title tr.:** Studies of the destruction of pine seedlings and their significance.

Contains data on the causes, appearance, and occurrence of pine seedling destruction, as studied in several localities (indicated on map) of northern and southern Finland. The condition of seedlings and their preservation in the northern is compared with those of the southern part of the country. Bibliography (225 items). Summary in German, p. 239-304.

**Copy seen:** DLC.

**23111. KANGAS, ESKO.** Zur Kenntnis der Larven der *Pissodes*-Arten Finlands. Helsinki, 1935. 25 p., 31 illus. in text and on 4 plates. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 20:3) **Title tr.:** Contribution to the knowledge of the larvae of *Pissodes* species of Finland.

Contains a review of earlier studies of these forest pests; a description of their larvae and pupae and of marks distinguishing their larvae from those of another beetle *Hylobius*. Bibliography (75 items). Summary in Finnish.

**Copy seen:** DLC.

**23112. KANGAS, YRJÖ.** Über die finnischen Arten der *Anthobium lapponicum-minutum*-Gruppe (Col. Staphylinidae). (Suomen hyönteistieteellinen aikakauskirja, 1941. v. 7, no. 1, p. 60-69, illus.) **Title tr.:** On the Finnish species of the *Anthobium lapponicum-minutum* group (Col. Staphylinidae).

Discussion of this group of beetles with description of a new species.

**Copy seen:** DLC.

**23113. KANNENBERG, E. G.** Bericht über die Jubiläumstagung des Archivs für Polarforschung Kiel. (Erdkunde, 1951. Bd. 5, p. 328-29) **Title tr.:**

Report on the jubilee meeting of the Archiv für Polarforschung in Kiel.

*Contains* a brief summary of the program of a meeting held at Kiel, June 18-20, 1951, to celebrate the 25th anniversary of the founding of this private research institute. It was established by Max Grotewahl in 1926, and supported by the city of Kiel, Germany.

*Copy seen:* DGS.

**23114. KANNISTO, ARTTURI, 1874-1943.** Les fêtes de l'ours chez les Voguls. (Suomalais-ugrilainen seura. Aikakauskirja, 1939. v. 50, no. 2. p. 21-39; the same in Finnish on p. 3-20) *Title tr.:* The bear festivals among the Voguls.

*Contains* general remarks on the bear worship among northern Asiatic peoples, and gives a detailed description of the festivals which the author observed while staying with Voguls in the Sos'va River region, in 1901-1906. The ceremonies performed were similar to those at a man's funeral; the songs and dramatic games served also as an entertainment.

*Copy seen:* DLC; InU.

**23115. KANNISTO, ARTTURI, 1874-1943.** Die Forschungsreisen Heikki Paasonens. (Suomalais-ugrilainen seura. Aikakauskirja, 1941-42. v. 51, no. 3, p. 25-49; the same in Finnish on p. 3-24) *Title tr.:* The exploring travels of Heikki Paasonen.

*Contains* description of his numerous expeditions, mostly among the Mordvins and Cheremiss, July 1900-May 1901, he worked also among the Ostyaks in Dem'yanskoye and Surgut, studying dialects and attending a bear festival (p. 37-43).

*Copy seen:* DLC; InU.

**23116. KANNISTO, ARTTURI, 1874-1943.** Matkakertomus vogulimailta, I-V. (Suomalais-ugrilainen seura. Aikakauskirja, 1903, v. 21, no. 6, p. 7-9, also in French on p. 38-39; 1904, v. 22, no. 3, p. 1-2; 1907, v. 24, no. 3, p. 1-3, also in French on p. 32-34; no. 4, p. 1-4, also in French on p. 36-37; 1908, v. 25, no. 5, p. 1-8) *Title tr.:* Report on a trip to the Vogulian country, I-V.

*Contains* brief accounts of the author's travels and results in his expeditions to the Ob'-Irtys' basin during 1901-1907, sponsored by the Finno-Ugrie Society. He worked in the district of Berezovo (mostly), and around Turinsk, also visited villages up the Loz'va, Pelym and other tributaries of the Ob' River system. Results: about 30,000 words from 11

dialects, 150 melodies recorded with a phonograph, 300 photographs, 650 museum objects, and numerous notes on dwellings, clothing, food, social organization, religious beliefs, etc. of the Voguls.

*Copy seen:* DLC; InU.

**23117. KANNISTO, ARTTURI, 1874-1943.** Die tatarischen Lehnwörter im Wogulischen. (Finnisch-ugrische Forschungen, 1925. Bd. 17, p. 1-264) *Title tr.:* The Tatar loan words in Vogulian.

*Contains* a linguistic investigation of Tatar influence on the Vogulian language: the Tatar sounds and words borrowed by the Vogulians are quite considerable in number. Author concludes that a total of 508 Vogulian words certainly have been taken from the Tatars, plus 48 uncertain cases. A few borrowings may date from the 14th century, but the bulk of them are not very old. The oldest Tatarian loan words are names for domestic animals, agricultural objects, domestic implements, stimulating beverages, and names for relatives. Obviously the Voguls learned a little agriculture from the Tatars. They were influenced by the Tatars living in Tobolsk government. Some Voguls were subject to the Tatars in the past, and today there are some entirely Tatarized Vogul villages.

*Copy seen:* DLC; InU.

**23118. KANNISTO, ARTTURI, 1874-1943.** Ueber die früheren Wohngebiete der Wogulen im Lichte der Ortsnamenforschung. (Finnisch-ugrische Forschungen, 1927. Bd. 18, p. 57-89, map) *Title tr.:* On the former living place of the Voguls in the light of toponymic research.

The small and dying-out Vogulian people (about 5,000) live now in two separated branches eastwards of the Ural Mountains: the larger northern group live in the region of the Northern Sos'va River, on the banks of the upper and middle Konda, on the Pelymka River northward from Verch-Pelymsk, and on the Vagilsk and Loz'va Rivers; the smaller southern group consists of a few villages, situated to the north of the middle Tavda River. Formerly the Voguls inhabited a much larger region. Place names, of which 262 are investigated in this paper, help to determine the former Vogulian territory. The Ob'-Ugrians formerly lived much more to the South and West, and later were pushed by the Russians and Tatars from the

region between Pinega and Konda to the Irtysh and Ob'. *Copy seen:* DLC; InU.

**23119. KANNISTO, ARTTURI, 1874-1943.** Ueber die Tatuierung bei den Ob-ugrischen Völkern. (Suomalais-ugrilainen seura. Toimituksia, 1933. no. 67, p. 159-85, 55 drawings) *Title tr.:* On tattooing among the Ob'-Ugrian peoples.

Among all the Finno-Ugric peoples, only the Ostyaks and Voguls tattoo the skin, usually on the arms and legs, sometimes the face. It is done by the women chiefly as ornamentation, and by men as a cure (e. g. for rheumatism), the bleeding having a therapeutic effect. Technique: a pattern is painted on the skin with greasy soot, then pointed with a needle. The designs are geometric, or represent various birds or family marks which Ostyaks use as a signature on documents. Tattooing is well known in northern Asia among the Chukchis, Koryaks, Kurils and Ainu. The Lapps of Kola Peninsula consider soot a good remedy for fresh wounds.

*Copy seen:* DLC; InU.

**23120. KANNISTO, ARTTURI, 1874-1943.** Ueber einige wogulisch-ostjakische Vokalentsprechungsverhältnisse. (Finnisch-ugrische Forschungen, 1914. Bd. 14, p. 30-41) *Title tr.:* On some relations of corresponding vowels in the Vogul and Ostyaks languages.

*Copy seen:* DLC; InU.

**23121. KANNISTO, ARTTURI, 1874-1943.** Die Vokalharmonie im Wogulischen. (Finnisch-ugrische Forschungen, 1914. Bd. 14, p. 41-81) *Title tr.:* The harmony of vowels in Vogulian.

*Contains* proofs that the harmony of vowels is a much more common feature in the recent Vogulian dialects than had been realized, and that it certainly originated in the primitive Vogulian.

*Copy seen:* DLC; InU.

**23122. KANNISTO, ARTTURI, 1874-1943.** Ein Wörterverzeichnis eines ausgestorbenen wogulischen Dialects in den Papieren M. A. Castrén's. (Suomalais-ugrilainen seura. Aikakauskirja, 1913-18. v. 30, no. 8, p. 1-33) *Title tr.:* A list of words from an extinct Vogulian dialect found among Castrén's papers.

*Contains* publication with comments, of a list of Vogulian words noted down by a certain Major Karpinski in the region of the junction of Ulsuy and Vyshera Rivers, Perm government, where there

stands the Vogulian village of Ust'-Ulsuy, today entirely russified. Castrén (about 1845) made several corrections and additions to his copy of the unidentified Karpinski's list, which list has many errors and seems of minor importance.

*Copy seen:* InU.

**23123. KANNISTO, ARTTURI, 1874-1943.** Der Wogulenfürst *Asyka* in Chroniken und Volkstradition. (Finnisch-ugrische Forschungen, 1914. Bd. 14, p. 18-30) *Title tr.:* The Vogulian prince *Asyka* in the chronicles and folk tradition.

*Contains* an historical review of the subjugation of the Ugric peoples by the Russians from the 11th century. The Voguls and Ostyaks long resisted the Russians and their allies, the Christianized Zyryans. The activities of the Vogulian prince *Asyka* and his son *Jumshan*, in the later 15th century are outlined here according to the Russian chronicles. The final subjugation of the Voguls and Ostyaks by the Muscovites occurred at the end of the 16th century. The heroic legends collected by Kannisto among the Voguls from Konda River, mention a hero's name which linguistically is identical with *Asyka*.

*Copy seen:* DLC; InU.

**23124. KANNISTO, ARTTURI, 1874-1943, and others.** Wogulische und ostjakische Melodien. Helsinki, 1937. lxi, 378 p. 13 illus., map, 208 musical examples. (Suomalais-ugrilainen seura. Toimituksia, no. 63) *Title tr.:* Melodies of the Voguls and Ostyaks.

*Contains* 150 Vogul melodies recorded with a phonograph by A. Kannisto, and 58 melodies recorded by K. F. Karjalainen among the Ostyaks. The melodies have been transcribed, classified and commented on by A. O. Väisänen. Full texts of the songs are lacking, but the contents of the Vogulian songs (nos. 1-142) are indicated briefly in German. Many of the songs were sung at the bear sacrifice ceremonies; some are mythological and heroic songs. A few melodies of the Vogulian lyre are represented (nos. 143-150).

*Copy seen:* DLC; InU.

**23125. KANNISTO, ARTTURI, 1874-1943.** Zur Etymologie des Völkernamens Ostjake. (Suomalais-ugrilainen seura. Toimituksia, 1928. no. 58, p. 417-40) *Title tr.:* On the etymology of the name for the Ostyak people.

*Contains* discussion of the name *ostjak*

used for the first time in 1572; and conclusion that the Russians probably made the word to designate the people living on the As (now Ob') River.

**Copy seen:** DLC; InU.

**23126. KANTOROVICH, VLADIMIR ĀKOVLEVICH.** Po sovetsoĭ Kamchatke; kniga putevykh ocherkov. [Moskva] Molodaia gvardiia, 1931. 158 p., illus., map. (Biblioteka ėkspeditsii i putesthestvii) **Title tr.:** Over Soviet Kamchatka; a book of travel sketches.

*Contains* popular account of the route from Vladivostok to Petropavlovsk; description of Kamchatka, its geography, nature and life; its industry and industrial area. Trip through the Kamchatka River valley; account of volcanoes, people, climate, etc. **Copy seen:** DLC.

**23127. KAPTEREV, P. N.** Anabiose im ewigen Eise. (Deutsche Gesundheitswesen, 1947, v. 2, p. 517) **Title tr.:** Anabiosis in the eternal ice.

Report on work done since 1931 in the Soviet Union on reviving organisms enclosed for many thousands of years in mud of the permafrost. Bacteria, algae and some lower organisms have been revived. The medical importance of these studies is found in the possibility that pathogenous agents in buried corpses, may revive in exceptionally warm years and cause infection of waters and epidemics. **Copy seen:** DSG.

**23128. KAPTEREV, P. N.** Experiments in the revitalization of organisms from the permanently frozen subsoil. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1936. nouv. ser., v. 3 (12), no. 3 (98), p. 137-40)

On the basis of experiments made at the Skovorodino station on the Amur Railroad about 53°58' N., 123°57' E., a report is given on organisms revitalized from permafrost soil; includes numerous microscopic algae, fungus hyphae, moss and one lower crustacean. The dissimilarity of the floras from the permafrost layer and the active layer is stressed. **Copy seen:** DLC.

**23129. KAPTEREV, P. N.** New data on revitalization of organisms from perpetually frozen grounds. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1938. nouv. ser., v. 20, no. 4, p. 315-17)

Results from second series of experiments on revitalization of organisms

from permafrost layers at the Skovorodino permafrost station on the Amur Railway. Bacteria, numerous algae, protozoa and one crustacean were "revived" and identified.

**Copy seen:** DLC.

**23130. KAPTEREV, P. N.** Ob anabioze v usloviakh vechnoi merzloty. (Akademiia nauk, SSSR. Izvestiia. Otdelenie matematicheskikh i estestvennykh nauk. Seria biologicheskai, 1936. no. 6, p. 1073-88, illus.) **Title tr.:** Anabiosis in the conditions of permafrost.

*Contains* the results of experimental study of anabiosis of animals and plants, carried out at Skovorodino permafrost research station (on the Amur Railway, 53°58' N., 123°57' E.) in 1934-36; samples taken at the depth of 2-4 m. contained various green algae, desmids, diatoms and some mosses which were re-animated at the temperature 110° C.

**Copy seen:** DLC; MH.

**23131. KARAVAEV, M. N.** Parfumernye lishalniki i perspektiva ispol'zovaniia ikh v SSSR. (Akademiia nauk SSSR. Botanicheskii institut. Trudy, Seria 2. Sporovye rasteniia, 1950. vyp. 6, p. 354-74) **Title tr.:** Aromatic lichens and the possibilities for their utilization in the U.S.S.R.

*Contains* results of a study of aromatic lichens with a view to their utilization in the perfume industry as the source of aromatic oils; general data on chemical composition, technology and world regions for gathering these lichens; an enumeration of 10 species with data on systematics, morphology, distribution, ecology, chemical properties and uses; including *Evernia prunastri* occurring in the tundra zone of European U.S.S.R. Bibliography (70 items).

**Copy seen:** MH.

**53132. KARELO-MURMANSKIĬ KRAĬ.** Kraevedcheskii, obshchestvenno-ekonomicheskii, illiustrirovannyi zhurnal. Leningrad, 1923-1935.

v. 1-13, no. 9 (1923-Aug. 1935). Issued bi-monthly, two no. to each issue in volumes seen. A popular journal with short articles on the resources and development of Karelia and Kola Peninsula. The articles vary in scope, include news items, propagandist and factual presentation of exploitation projects, mineral and power resources, agricultural developments, utilization of reindeer, etc. Several selected papers from v. 11-12

appear in this Bibliography under their authors' names.

**File seen:** DLC (v. 5, 1927; 11-12, no. 8, 1933-34).

**2133. KARGER, N.** Gilfaki. (*In:* Bol'shaya sovetskaya éntsiklopediia, 1926-47. v. 16, col. 845-48) **Title tr.:** The Gilyaks.

Comprehensive account of these people (said to number about 4000), remnants of an originally central Asiatic group forced northeastward to localities in the Okhotsk seacoast, Sakhalin Island and the lower Amur River; their neighbors, the Tungus and Ainu; genetic relationship to North American Indians; language, folklore, social organizations; fishing as source of food and clothing; recent development of farming, gardening, cattle and horse breeding; traditional underground dwellings and summer huts, clans and domestic life; social culture, religious cults and beliefs; their attitude toward death, etc.; the "new era" settlements, political reorganization, developments in education, culture and health care, etc.

**Copy seen:** DLC.

**2134. KARJALAINEN, KUSTAA FREDRIK, 1871-1919.** Alte Bilder zur Ob-ugrischen Mythologie. Helsinki, 1914. 26 p. 17 illus. (Suomalais-ugrilainen seura. Toimituksia, v. 35, no. 5) **Title tr.:** Old reflections of Ob'-Ugrian mythology.

*Contains* discussion of pictures with which olden-time travelers decorated their narratives. The Ostyaks especially attracted the attention of western travelers in the 16th and 17th centuries. Fabulous stories were told and fantastic pictures added to publications, especially on maps. The famous "golden wife" (*alata* or *zolotaiá baba*), pictured on the maps at the western side of the Ob' River near its mouth (e. g., by Herberstein in 1546 A. D., Wied 1555, Jenkinson 1562, and others) never existed, it is merely a giant rock somewhat similar to a woman with a child on her lap. The chronicle *Kratkaiá Sibirskaiá Letopis*, written by S. W. Remezov, between A. D. 1655 and 1700, includes some twenty pictures of Ostyak, and a few of Vogul life. The author deals with such of these pictures as are connected with the religious beliefs of the Ostyaks. **Copy seen:** DLC; InU.

**2135. KARJALAINEN, KUSTAA FREDRIK, 1871-1919.** K. F. Karjalainen Ostjakisches Wörterbuch. Bear-

beitet und herausgegeben von Y. H. Toivonen, I-II. Helsinki, 1948. xxxv, 1199 p. (Suomalais-ugrilainen seura. Lexica Societatis Fennougricae, 10) **Title tr.:** The Ostyak dictionary of K. F. Karjalainen, revised and edited by Y. H. Toivonen, I-II.

Preface gives an account of the travels of K. F. Karjalainen among the Ostyaks, 1898-1902, and the results; Toivonen's methods in editing the dictionary, the transcription, etc. The extensive Ostyak-German dictionary follows with a German index (p. 1121-99). See also Toivonen's *Türkische Lehnwörter*, 1943-1944.

**Copy seen:** InU.

**2136. KARJALAINEN, KUSTAA FREDRIK, 1871-1919.** Die Religion der Jugra-Völker. Helsinki, Suomalainen tiedeakatemia, 1921, 1922, 1927. 3 pt.: 204, 386, 352 p. 67 illus., map. (Folklore Fellows Communications, nos. 41, 44, 63) **Title tr.:** The religion of the Ugrie peoples.

Pt. 1-2 translated by Oskar Hackman, pt. 3, by Arno Bussenius.

*Contains* (in pt. 1) an introductory sketch, dated June 1917, of the Ostyaks and Voguls, the author's life-long study, particularly during a sojourn among them (roughly) 1898-1903. He is stronger, he states, on Ostyaks than Voguls. Their area is indicated as north of 58° N. lat. from the eastern Urals to the Yenisey, along the Ob'-Irtys and tributary rivers, their numbers: 18,000 Ostyaks, 5,000 Voguls. Their history and migrations are outlined, also the considerable cultural influences of their neighbors, the Zyryans, Samoyeds, Tungus, Tatars and Russians, the latter overwhelming in material culture. A survey of source materials on these peoples (including unpublished documents and archives) completes this introduction (p. 3-22). Then follows discussion, with historical perspective and geographic parallels, of their ideas on creation and the nature of man and his different souls; beliefs about birth and re-birth, name-giving, and (chiefly) death and the dead. The origin of diseases, medical therapy, healing by sacrifices and shamanistic performances, etc., are discussed (p. 78-92). Mortuary customs, rites of purification, mourning customs, burial places, and concept of life after death are described in some detail.

Pt. 2 deals with the world of spirits: household, clan, district or local spirits,

the latter having numerous idols, sacred places, etc., and sacrifices by priests; characteristics of the individual spirits and development of beliefs regarding local spirits are stressed. General (as distinct from local) nature spirits are treated at length, also those of the underworld, diseases (p. 342-70), and demons.

Pt. 3 analyses worship of animals and natural phenomena (sun, moon and stars, thunder and wind, fire); also the sacrificial practices in different parts of the region; bear ceremonial is described in detail (p. 193-235). Taboos regarding women, the shaman, his self-intoxication (with fungi), and his performances are discussed. "The Ugric shaman originally was merely a wise man and divinator, and not a medicine man or sacrificial priest." (p. 328).

**Copy seen:** DLC; InU.

**23137. KARJALAINEN, KUSTAA FREDRIK, 1871-1919.** Wie EGO im Ostjakischen die Verwandten benennt. (Finnisch-ugrische Forschungen, 1913. Bd. 13, p. 207-295) **Title tr.:** How one calls relatives in Ostyak.

*Contains* linguistic and social investigation of 51 Ostyak terms for relatives. The terminology is very rich and expresses fine distinctions in the relationship, e. g., different terms are used for cousins on the father's and on the mother's side, for those younger and older than oneself, etc. Most are old and indigenous Ostyak terms without trace of Zyryan or Vogul influence; Tatar influence, however, appears in some eastern dialects. The terms for father, oneself and husband often interfere with each other; the terms for mother and wife, on the contrary, are more isolated, because the womenfolk are strangers who come into one's family.

**Copy seen:** DLC; InU.

**KARJALAINEN, KUSTAA FREDRIK, 1871-1919, see also** Kannisto, A., & others. Wogulische u. ostjakische Melodien. 1937. No. 23124.

**23138. KARK, ROBERT M., and others.** Observations on a mobile arctic force. The health, physical fitness and nutrition of Exercise "Musk Ox," February-May 1945. (Journal of applied physiology, July 1948. v. 1, p. 73-92, diags.) *Other authors:* R. R. M. Croome, J. Cawthorpe, D. M. Bell, A. Bryans, R. J. MacBeth, R. E. Johnson, C. F. Consolazio, J. L. Poulin, F. H. L. Taylor, R. C. Cogswell, and M. C. Aus.

"The present study was carried out in part under a grant from the Associate Committee on Army Medical Research of the National Research Council of Canada." Report on observations made on the personnel at Churchill, in Feb. 1945 before the start of the exercise and again on its conclusion at Fort Nelson in May. Includes (1) environmental, medical and dietary histories, (2) physical conditions, (3) chemical determinations of important constituents of the blood and urine, (4) physical fitness for hard muscular work; results of clinical findings and biochemical tests; presentation of calculated average daily intake of nutrients; mention of occurrence of carbon monoxide poisoning, of certain symptoms of exposure to wind, sun and cold, and changes in chlorides, protein and ascorbic acid associated with acclimatization. Bibliography (21 items).

**Copy seen:** DLC.

**23139. KARK, ROBERT M., and others.** Observations on a mobile arctic military force; the health, physical fitness and nutrition of Exercise "Musk Ox". (American Federation for Clinical Research. Proceedings, 1947. v. 3, p. 49-50)

*Contains* an abstract of a National Research Council of Canada report, with data on average daily intake of nutrients and vitamins, list of observations made. General information is given on the health and physical fitness of personnel of this Canadian army exercise in the Barren Grounds of northern Canada, Feb.-May 1946. For the original report, see *Arctic Bibliography*, No. 12104.

**Copy seen:** DLC.

**KARK, ROBERT M., see also** Johnson, R. E., & R. M. Kark. Environment & caloric requirements. 1947. No. 23005.

**KARK, ROBERT M., see also** Johnson, R. E., & others. Metabolic changes heat acclimatized men during cold. 1949. No. 23006.

**23140. KARLSEN, ASTRID.** Studies on Myxomycetes I. New records for Norway. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1934, nr. I, p. 1-8)

*Contains* a systematic list of 18 species and varieties of slime moulds new to the fauna of Norway, including *Comatricha elegans* found in Saltdalen, Nordland, and *Physarum vernum* var. *iridescent*, near Tromsø.

**Copy seen:** MH-Z.

**23141. KARMISHIN, A. V.** "Goluboi ugoi'" Karelo-Murmanskogo kraia. (Karelo-Murmanskii krai, 1934. v. 12, no. 7-8, p. 48-54, illus., tables) *Title tr.:* "Blue coal" of the Karelo-Murman region.

*Contains results of a study of wind as a power potential. The introduction of a wind-motor specially constructed for arctic conditions, impels author to submit wind-energy to a thorough analysis. The lack of constancy and impossibility of concentrating its energy are considered; monthly wind velocities for ten localities in Karelia and Kola Peninsula and for Moscow are given; engineering data on some projects in operation are quoted together with calculations on output, returns, etc.*

*Copy seen:* DLC.

**KARMISHIN, A. V.,** see also Sidorov, V. I., & others. Bystrokhodnyi samoreg. vetrodvigatel'. 1950. No. 26189.

**KARPINSKI, Major,** see Kannisto, A. Wörterverzeichnis. 1913-18. No. 23122.

**KARPINSKIĬ, ALEKSANDR PETROVICH, 1846-1936,** see Amaliŭskiĭ, V. P. Dnevnik nablūd. po malof Sev. Dvine. 1931. No. 20168.

**KARPINSKIĬ, ALEKSANDR PETROVICH, 1846-1936,** see also Vologdin, A. G. O kembrii Uralā. 1937. No. 27167.

**KARRICK, NEVA L.,** see Scheffer, V. B., & others. Vitamin A pale-colored liver. 1950. No. 25939.

**23142. KARSTEN, PETTER ADOLF, 1834-1917.** Enumeratio fungorum et myxomycetum in Lapponia orientali aestate 1861 lectorum. (Societas pro fauna et flora fennica. Notiser ur förhandlingar, 1882. Häft. 8 (ny serie, häft. 5) p. 193-224) *Title tr.:* An enumeration of fungi and myxomycetes collected in eastern Lapland in the summer of 1861.

*Contains a systematic list of 425 species of fungi and slime moulds collected by N. I. Fellman and the author during an expedition to Kola Peninsula in the summer of 1861. Includes diagnoses of two new genera (Pulparia and Urnularia) three new species and some noteworthy species and data on distribution. Originally published as a separate paper in 1866 (copy not seen).*

*Copy seen:* MH-Z.

**23143. KARSTEN, PETTER ADOLF, 1834-1917.** Finlands mögelsvampar (Hyphomycetes fennici). (Bidrag till kännedom af Finlands natur och folk, 1892. Häft. 51, p. 343-534) *Title tr.:* Hyphomycetes of Finland.

*Contains key to the families, genera and species of Hyphomycetes and descriptions of 305 species of these fungi, with synonyms, data on hosts and localities in Finland. Includes some species native to Finnish Lapland.*

*Copy seen:* DLC; MH.

**23144. KARSTEN, PETTER ADOLF, 1834-1917.** Finlands rost- och brandsvampar (Hypodermii), i korthet beskrifna. (Bidrag till kännedom af Finlands natur och folk, 1884. Häft. 39, p. 1-118) *Title tr.:* Brief descriptions of rust and smut fungi of Finland.

*Contains brief descriptions of the then known species of rust and smut fungi inhabiting Finland, with synonyms, data on host plants and on distribution there; includes some species native to Finnish Lapland.*

*Copy seen:* DLC; MH-Z.

**23145. KARSTEN, PETTER ADOLF, 1834-1917.** Fungi novi, paucis exceptis, in Sibiria a clarissimo O. A. F. Loennbohm collecti. Helsingfors, 1904. 9 p. (Finska vetenskaps-societeten. Översigt af förhandlingar, 1903-1904. Afd. 46, no. 11) *Title tr.:* New fungi, collected, with a few exceptions, in Siberia, by the very illustrious O. A. F. Loennbohm.

*Contains brief descriptions and data on localities of occurrence, and substrates of 27 new species of fungi, including several found in northern Karelia and northern Siberia.*

*Copy seen:* DLC.

**23146. KARSTEN, PETTER ADOLF, 1834-1917.** Kritisk öfversigt af Finlands basidsvampar (Basidiomycetes: Gastero- & Hymenomycetes). Bidrag till kännedom af Finlands natur och folk, 1889. Häft. 48, p. 1-470) *Title tr.:* A critical revision of Basidiomycetes of Finland.

*Contains a critical revision of 1255 species and many varieties of basidiomycetous fungi native to Finland, with keys, synonymy, descriptions, critical notes and data on distribution; diagnoses of six new species and one variety, p. 462-67, and an index of the genera, p. 468-70: Includes many species native to Finnish Lapland and adjoining regions.*

*Copy seen:* MH-Z.

**23147. KARSTEN, PETTER ADOLF, 1834-1917.** Mycologia fennica, I. Dis-

comycetes. Helsingfors, 1871. viii, 263, [1] p. (Bidrag till kännedom af Finlands natur och fold. Häfte 19)

Several hundred fungi (including many in northern localities) are listed and described in Latin. **Copy seen:** DLC.

**23148. KARSTEN, PETTER ADOLF, 1834-1917.** Mycologia fennica, II. Pyrenomyces. Helsingfors, 1873. ix, 250, [2] p. (Bidrag till kännedom af Finlands natur och fold. Häfte 23)

Several hundred forms of these fungi are listed and described in Latin.

**Copy seen:** DLC.

**23149. KARSTEN, PETTER ADOLF, 1834-1917.** Mycologia fennica, III. Basidiomyces. Helsingfors, 1876. x, 377 p. (Bidrag till kännedom af Finlands natur och folk. Häfte 25)

Continuation of the monograph on Finnish fungi.

**Copy seen:** DLC.

**23150. KARSTEN, PETTER ADOLF, 1834-1917.** Mycologia fennica, IV. Hypodermii Phycomyces et Myxomyces. Helsingfors, 1879. 144 p. (Bidrag till kännedom af Finlands natur och folk. Häfte 21)

Fourth part of the monograph on Finnish fungi, listing and describing (in Latin) several hundred species.

**Copy seen:** DLC.

**23151. KARSTEN, PETTER ADOLF, 1834-1917.** Rysslands, Finlands och den Skandinaviska Halföns hattsvampar. Del. 1, Skifsvampar, 2, Pip-, Tagg-, Hud-, Klubb- och Gelésvampar. Helsingfors, Finska Litt.-sällskap. tryckeri, 1879-82. 2 v.: xxvii, 570 p.; xix, 257 p. (Bidrag till kännedom af Finlands natur och folk. Häfte. 32, 37) **Title tr.:** Hymenomyces of Russia, Finland and the Scandinavian Peninsula; pt. 1, Agaricineae; pt. 2, Polyporeae, Hydneae, Thelephoreae, Clavariaceae, and Tremelleae.

Contains a systematic enumeration of all then known species of the gill, pore and tooth fungi of the order Hymenomyces (Agaricales) in this extensive area, including some species native to northern regions of Fennoscandia and Russia. Each volume has synopses of families and genera, descriptive notes and brief data on habitat and distribution of species, and indexes in Latin.

**Copy seen:** MH-Z.

**23152. KARSTEN, TORSTEN EVERT, 1870-1942.** Einige Zeugnisse zur alt-

nordischen Götterverehrung in Finland. (Finnisch-ugrische Forschungen, 1912 Bd. 12, p. 307-316) **Title tr.:** Some evidences of the worship of Old Nordic gods in Finland.

Contains evidence of Scandinavian influence in the myths and cults of the Lapps and Finns: the Lapp thundergod Horagalles or Thoragalles (from Scandinavian Thor); the Nordic goddess Freyer in Finland's place names and in beliefs about the Finnish Sampsä-Pelervoinen, the deity of fertility.

**Copy seen:** DLC; InU.

**23153. KARVONEN, VIJO J.** Vier neue Kleinschmetterlinge aus Finnland. (Notulae entomologicae, 1932. v. 12, no. 4, p. 77-81, plate 1) **Title tr.:** Four new small lepidoptera from Finland.

Contains descriptions of four new species of small lepidoptera (Microlepidoptera): *Argyroplote aquilonana*, *hyperboreana*, *Stenoptilia veronicae* and *Teleia empetrella* n. spp., all native to Finnish Lapland; the first species is also found in Novaya Zemlya and the second is in Sahiberg collection from lower Yenisey valley.

**Copy seen:** DLC; MH-Z.

**KARVONEN, VIJO J.,** see also Lankiala, E., & V. J. Karvonen. Pyralidenfauna Finlands. 1927. No. 23650.

**23154. KASHCHENKO, NIKOLAI FE-OFANOVICH.** Krysy i zaměstiteli ikh v Zapadnoi Sibiri i Turkestané. (Akademiia nauk SSSR. Zoologicheskii muzei, Ezhegodnik, 1912, pub. 1913. t. 17, no. 3-4, p. 370-89, text map) **Title tr.:** Rats and their successors in Western Siberia and Turkestan.

Contains a study of the geographic distribution of some rats (*Mus rattus* and *Mus norvegicus*) in western Siberia and some other rodents replacing them, including *Microtus terrester* extending up to 70° N. lat. Bibliography (33 items).

**Copy seen:** DLC; MH-Z.

**23155. KASHCHENKO, NIKOLAI FE-OFANOVICH.** *Stenocranius* i *Platy- cranius*, dva novye podroda sibirskikh polevok. (Akademiia nauk SSSR. Zoologicheskii muzei, Ezhegodnik, 1901. t. 6, no. 2-3, p. 165-206) **Title tr.:** *Stenocranius* and *Platyocranius*, two new subgenera of Siberian field mice.

Contains descriptions of *Stenocranius* and *Platyocranius*, two new sub-genera of meadow mice or voles, and a critical

revision of six Siberian species with synonymy, critical notes, measurements of many specimens in the collection of the Zoological Museum and data on distribution. Includes *Microtus (Stenocranius) slowzowi*, occurring in Yakutia.

**Copy seen:** DLC; MH-Z.

**23156. KASHCHENKO, NIKOLAI PEOFANOVICH.** Zamĕtka ob *Arctomys bungei* n. sp. i o drugikh sibirskikh surkakh. (Akademiĭa nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1901. T. 6, no. 4, p. 615-20) **Title tr.:** Note on *Arctomys bungei* n. sp., and other Siberian marmots.

Contains a Russian description of *Arctomys bungei* n. sp., a marmot from the Omoloy River region, northeastern Siberia, brought home by Dr. Bunge, and a comparative study with three other species, including *A. kamschaticus*.

**Copy seen:** DLC; MH-Z.

**23157. KASPAROVA, S. A., and I. V. GLAZUNOV.** Biochemical evaluation of wild forage grasses growing in the Arctic in the basin of the River Ena. (Akademiĭa nauk SSSR. Comptes rendus (Doklady). 1941. nouv. ser., v. 33, no. 2, p. 129-32, tables)

Comparative chemical analysis of forage grasses raised under different climatic conditions (in Kola Peninsula and several other localities). Except for their high content of cellulose the plants in the North are not inferior as fodder; their nitrogenous matter is largely protein, which is a desired characteristic.

**Copy seen:** DLC.

**23158. KASPAROVA, S. A., and T. A. PROSKURNIKOVA.** Carbohydrates as an index in determining winter hardiness of red clovers outside the Polar Circle. (Akademiĭa nauk SSSR. Comptes rendus (Doklady), 1944. nouv. ser., 4. 42, no. 8, p. 355-59, tables)

Analysis of the various factors determining winter hardiness of these plants. Character and amount of carbohydrates stored is concluded to be a prime factor determining successful acclimatization.

**Copy seen:** DLC.

**23159. KASSELL, BERNARD M.** Russia's icebreakers. (American Society of Naval Engineers, Inc. Journal, Feb. 1951. v. 63, no. 1, p. 136-52, plate)

Sketch of the history of Russian planning and research on icebreakers, the growth of the fleet to 1940, and postwar plans; detailed notes on engineering fea-

tures of the various classes of vessels in the Russian ice fleet; and a bibliography (about 30 items). **Copy seen:** DLC.

**KASTLER, A.,** see Robley, R., & others. Spectre de l'aurore boréale. 1950. No. 25601.

**23160. KATKOFF, V.** The flounder industry of the Soviet Far East. (Economic geography, Apr. 1952. v. 28, p. 171-80, 3 sketch maps)

Contains a review of past methods and fishing grounds and data on landings, migration and potential catch of flounders in a region which includes the Kamehatkan waters.

**Copy seen:** DGS.

**23161. KATĖS, NIKOLAIĖ IAKOVLEVICH, 1894-**, and S. V. KATĖS. Atlas i opredelitel' plodov i semĕn v torfakh i ilakh. Moskva, Izd-vo Moskovskogo obshchestva ispytatelei prirody, 1946. 140 p., 20 plates. **Title tr.:** Atlas and identification key of fruits and seeds in peats and silts.

Fruits and seeds of 219 species are dealt with, some of them having a partly arctic distribution. This highly specialized monograph has an importance for arctic studies since peats are often located in northern areas.

**Copy seen:** DLC.

**23162. KATĖS, NIKOLAIĖ IAKOVLEVICH, 1894-**. Bolota Sovetskoi Azii, I-II. (Moskovskoe obshchestvo ispytatelei prirody. Biulleten', 1946. Otdel. biol. Novaĭa seriĭa, t. 51, vyp. 2, p. 80-90, text map; (II) vyp. 3, p. 99-108) **Title tr.:** The moors of Soviet Asia, I-II.

Contains (in pt. I) a study of 20 moor zones or "provinces" of Asiatic U.S.S.R., including arctic regions from the Urals to Bering Strait. Region, vegetative cover, land forms, polygonal soils, and peat formation are noted. Island zones (New Siberian Islands and Wrangel Island) are discussed. Sphagnum bogs and marshy tundras of the Chukotsk-Anadyr'-Koryak regions and peat-bogs of Kamchatka Peninsula are described and indicated on map. Part II deals with the regularities in the distribution of moors and peat-bogs (latitudinal zonality) and the factors such as climate, etc., influencing their development (autogenesis). Bibliography (105 items). Summary in English.

**Copy seen:** DLC; MH-A.

**23163. KATĖS, NIKOLAIĖ IAKOVLEVICH, 1894-**, and others. O torfĭani-

kakh'del'ty Severnoi Dviny. (Zemlevedenie, 1935. t. 37, vyp. 4, p. 303-320, illus.) **Title tr.:** Turf at the delta of the Severnaya Dvina River. *Other authors:* L. V. Kudrîashev and V. M. Epshteln.

*Contains* a study of peat bogs and their vegetative cover on the islands of the delta of Severnaya Dvina River (64°32' N., 40°37' E.), with data on various plant, formations on the shores of the islands and inland, their succession and lists of typical plants.

**Copy seen:** NNA.

**23164. KAŦS, NIKOLAÏ ĪAKOVLEVICH, 1894-** . Tipy bolot SSSR i zapadnoi Evropy i ikh geograficheskoe rasprostranenie. Moskva, OGIZ Gosudarstvennoe izd-vo geograficheskoi literatury, 1948. 319 p., illus., tables. **Title tr.:** Types of marshes in the U.S.S.R. and western Europe and their geographical distribution.

*Contains* two parts: (I) Regional characteristics of marshes; (II) General features of the distribution of marshes. The first eight chapters of the first part (p. 9-142, with 23 illus.) deal with arctic regions: (1) the marshes of the far North (Spitsbergen, East Siberian Islands); (2) the marshes of the Atlantic Arctic; (3) hilly-plains of eastern and central Siberia (Yakutia); (4) the zone of arctic mineral-sedge marshes (Yakutia, Bol'shezemel'skaya Tundra region 66°30'-68° N., 55°-60° E.); (5) the zone of flat-hilled marshes (Kolguev, Siberia); (6) the zone of large-hilled peat bogs (Kanin, Kola, etc.); (7) zone of peat bogs of the Apatype (Kola, Pechora region, etc.); (8) zone of convex oligotrophic peats (Kamchatka, Sakhalin, and others). Bibliography (over 500 items).

**Copy seen:** DLC.

**KAŦS, S. V.,** see KaŦs, N. ĪA., & S. V. KaŦs. Atlas i opred. plodov i semĕn. 1946. No. 23161.

**KATSNEL'SON, O. L.,** see Levin, O. A., & others. Klinika i lechenie otmorozenii. 1940. No. 23808.

**23165. KATTWINKEL, LIESELOTTE.** Lapplandfahrt im Rentierschlitten; eine Winterfahrt durch lappische Wildmarken. [Braunschweig] G. Westermann [1951, 1941] 216 p. illus. plates, maps on endpapers. **Title tr.:** Lapland journey in a reindeer sledge; a winter trip through the wild marches of Lapland.

Published in 1941 as *Lapin hullu, eine*

*Winterfahrt* . . . (118 p.); also published in Finnish and Norwegian editions.

*Contains* an account of a trip through northern Finnish Lapland from Pallastunturi to and along Lake Inari to Ivalo, thence through Suonikylä Nautsi, Salmijärvi and Petsamo to the arctic sea. Includes descriptions of the country traversed, the people, their way of life and habits; housing, food, art, games, superstitions, etc. Includes 37 photographs also small pen sketches.

**Copy seen:** DLC.

**23166. KATZ, H. R.** Ein Querschnitt durch die Nunatakzone Ostgrönlands (ca. 74° n. B.); Ergebnisse einer Reise vom Inlandeis (in Zusammenarbeit mit den Expéditions polaires françaises von P.-E. Victor) ostwärts bis in die Fjordregion, ausgeführt im Sommer 1951. København, C. A. Reitzel, 1952.

65 p. illus. (incl. sketch map), 3 (incl. 1 col.) fold. maps, fold., col. diagr. (Meddelelser om Grønland. Bd. 144, nr. 8) **Title tr.:** A cross section through the nunatak zone of East Greenland at about 74° N. Results of a journey, in collaboration with the French Polar Expeditions of P.-E. Victor, from the inland ice east to the fjord region in the summer of 1951.

*Contains* notes (in brief) on the motorized traverse, its equipment, organization, etc., and remarks on surface icecap and glacial features as well as the plant and animal life of the nunataks. An account is given (in detail) of the petrologic, stratigraphic and tectonic relations of the Precambrian and early Paleozoic metamorphic, unaltered sedimentary, and volcanic rocks of the nunatak zone. The area treated lies between 26°-29°15' W. at about 74° N. in East Greenland. This study was made by the 1951 party of the Danish Expeditions to East Greenland under the leadership of Laue Koch, 1947-51. Bibliography (21 items).

**Copy seen:** DGS.

**23167. KATZ, H. R.** Zur Geologie von Strindbergs Land (NE-Grönland). København, C. A. Reitzel, 1952. 150 p. illus., 5 plates (incl. 4 maps, 1 col.) (Meddelelser om Grønland, Bd. 111, nr. 1) **Title tr.:** On the geology of Strindbergs Land, Northeast Greenland.

*Contains* results of a geologic study of the peninsula which lies north of Kejsers Franz Joseph fjord between 73°32'-74°06' N. on the East Greenland coast. The stratigraphy, petrology and tectonics

of the strongly faulted Precambrian-Devonian terrain are described. A colored geological map (scale 1:250,000) is included. The study was made during 1948-49 as part of the Danish East Greenland Expeditions, 1947-51. Bibliography (85 items).

**Copy seen:** DGS.

**KATZ, L. N.,** see Prec, O., & others. Cardiovascular effects acutely induced hypothermia. 1949. No. 25283.

**23168. KAUFFMAN, ERLE.** Timber homestead in Alaska. (American forests, 1947. v. 53, p. 488-91, 527, illus.)

The author attacks the Lemke bill (H. R. 4059), which would provide war veterans with 1,920 acres of public land (including forests) each, for homesteading. The hazards for the veterans, also weaknesses of the bill and difficulties for realization of its objectives are indicated. Author notes further that this bill jeopardizes plans for selling the forest resources to paper mill interests.

**Copy seen:** DA.

**KAUFMAN, A. G.,** see Grin, A. F., & A. G. Kaufman. Ekon. geog. SSSR. 1983. No. 22240.

**23169. KAUFMAN, FRED.** He has the Eskimos guessing, but arctic geologist finds they make good field assistants. (Saturday night, Mar. 21, 1950. v. 65, no. 24, p. 12, 16, port.)

Biographical sketch of A. L. Washburn, executive director (1945-51) of the Arctic Institute of North America, with note on the work of the Institute.

**Copy seen:** CaO.

**23170. KAUKO, YRJÖ.** Alkoholita turpeesta ja jäkälistä. (Teknillinen aikakauslehti, 1920. v. 10, p. 342-46)

**Title tr.:** Alcohol from peat and lichen.

Contains (in this reprint of the Tampere Technical School Publication, no. 5), data on the chemical composition of peat and lichen as potential sources of alcohol. Author notes that lichen, a valuable raw material for this purpose, is limited in usefulness by its scarcity excepting in Lapland, and even there its use on a large scale could bring about depletion.

**Copy seen:** DLC.

**23171. KAUKO, YRJÖ.** Jäkälien ja turpeen kemiallisesta käsittelystä rehujen ja ravintoaineiden valmistamista varten. (Teknillinen aikakauslehti, 1925, v. 15: Jan., no. 1, p. 37-43; Apr. no. 4, p. 226-

31; Sept., no. 9, p. 436-43, tables) **Title tr.:** Chemical determinations of the value of lichen and peat as additions in preparing fodder and food.

Contains data from experiments by Dr. B. Mitro, the author, Prof. Tigerstedt and others, for utilization of the nutritional elements of lichen and peat. Prepared lichen was found too expensive for use as fodder for livestock. Its taste, preparation, chemical makeup, and value as food for humans is described.

**Copy seen:** DLC.

**23172. KAURI, HANS.** Bemerkungen über schwedische Tabaniden. (Opuscula entomologica, 1951. Bd. 16, häft. 1-2, p. 97-109) **Title tr.:** Notes on Swedish Tabanidae.

Contains a critical revision of 16 species of gadflies (horse-flies) inhabiting Sweden, including a diagnosis of *Tabanus (Tylostypia) borealis anderi* n. ssp. native to Torne Lappmark in Sweden, Enontekiä Lappmark in Finland and to Tromsø and Sydvaranger in Norway. Critical notes are included on six other species occurring in northern regions of Sweden with data on their distribution in Europe and Asia.

**Copy seen:** DA; MH-Z.

**23173. KAVANAUGH, ETHEL, 1901-** Wilderness homesteaders. Caldwell, Idaho, Caxton Printers, 1950. 2 p. 1, 303 p., front., illus., 65 plates, maps (on lining papers)

Story of two women who settled in the Homer region of Kenai Peninsula.

**Copy seen:** DLC.

**23174. KAY, WENDELL P.** Housing and health in Alaska. (Alaska's health, June 1947. v. 5, no. 6, p. [7])

Note on shortage and poor quality of dwellings in Alaska. **Copy seen:** DLC.

**23175. KAZAKOV, A. N.** Osobennosti i raspredelenie saamskikh geograficheskikh nazvaniy Murmanskoi oblasti. (Vsesoyuznoe geograficheskoe obshchestvo. Izvestiia, 1952. t. 84, no. 4, p. 350-62, 7 text maps) **Title tr.:** Peculiarities and distribution of the Lappish geographical names in the province of Murmansk.

Contains discussion on toponyms of the Kola Peninsula: Lappish place names and archeology are the best sources for their history; Russian place names began to penetrate from the 16th century on the line Kanadalaksha-Kola and now prevail along the coast and especially in the

southeastern part of the peninsula; Karelian names dominate in the southwest from Kandalaksha; Zyryan (*izhem-skii*) names have begun to penetrate into the northeastern part since 1888 (see map on p. 351). The Lappish place names have survived mostly in the central part of the Peninsula. Analysis of these Lappish names show how they have been formed: some are of purely physico-geographic origin, some are connected with settlements, or with cult and epics, some originated in the inhabitants' occupations (fishing, reindeer keeping and hunting). **Copy seen:** DLC.

**23176. KEANE, AUGUSTUS HENRY, 1833-1912.** Asia, v. I. Northern and eastern Asia. London, Stanford, 1896. xxiv, 514 p. illus., maps. (Stanford's compendium of geography and travel, new issue.)

*Contains* in chap. 4 (p. 167-244) brief popular accounts of the relief, hydrography, natural and political divisions, climate, flora and fauna, inhabitants, topography, etc. **Copy seen:** DLC.

**23177. KEEGAN, H. L., and R. A. HEDEEN.** Collections of ectoparasitic mites from Alaska. (Journal of parasitology, Aug. 1952. v. 38, no. 4, p. 360-61)

*Contains* a report on eight species of mites, members of the family Laelapitidae, taken from rodents and birds in widely separated localities; includes data on the localities, dates, collectors, hosts, etc. Bibliography (5 items)

**Copy seen:** DA.

**23178. KEETON, ROBERT WOOD, 1883-**, and others. The tolerance of man to cold as affected by dietary modifications: proteins versus carbohydrates, and the effect of variable protective clothing. (American journal of physiology, Apr. 1946. v. 146, p. 66-83) *Other authors:* E. H. Lambert, N. Glickman, H. H. Mitchell, J. H. Last, and M. K. Fahnestock.

Introductory material describing the subjects (groups of 10 or 12 young men), the diets, experimental rooms and clothing, the measurements, tests and statistical analyses. Full discussion of the observations and ten conclusions concerning physiological functioning, caloric intake, protection by clothing. Conclusion that high-carbohydrate diet is "more potent in combating the effects of intense cold by slowing the rate of surface

(skin) cooling; definitely lessens the adverse effect of intense cold on the general psychomotor functioning; has superiority in increasing the tolerance to cold." Bibliography (22 items).

**Copy seen:** DLC.

**KEETON, ROBERT WOOD, 1883-**, see also Glickman, N., & others. Tolerance of men to cold: high vs. low water-soluble vitamins. 1946. No. 22134.

**KEETON, ROBERT WOOD, 1883-**, see also Mitchell, H. H., & others. Tolerance of man to cold: carbohydrate. 1946. No. 24389.

**23179. KEHR, ERNEST A.** Stamps of the North. (Beaver, Sept. 1951. Outfit 282, no. 2, p. 17-19, illus.)

Illustration, technical and philatelic comment on several Canadian postage stamps issued in recent years which feature northern wildlife, geographic features, etc., in their design.

**Copy seen:** CaMAI; DSI-M.

**23180. KEILHAU, BALTHAZAR MATHIAS, 1797-1858.** Beretning om en geognostic reise til Nordlandene i 1855. (Nytt magasin for naturvidenskapene, 1861. Bd. 11, hefte 3, p. 209-219) **Title tr.:** Report on a geognostic trip to Nordland in 1855.

*Contains* a diary of the author's trip to Nordland, with data on rock formations of various localities.

**Copy seen:** DLC; MH-Z.

**23181. KEINDL, JOSEF.** Geomorphologische Untersuchungen in Nordnordwegen. (Geographische Gesellschaft in Wien. Mitteilungen, 1939. Bd. 82, p. 257-301, 2 plates, 3 sketch maps, diagrs.) **Title tr.:** Geomorphologic studies in northern Norway.

Studies were made of the regions of Tromsø, the peninsula between Kvænangen and Altenfjord, Kval Island and Kvalsund, in 1935, and detailed description is given of the old land surfaces. The origin of fiords, the present snow-line, and glaciation during the ice age is discussed. Some of the valleys are described. Recent deposits of the whole area, including raised shore lines are sketched.

**Copy seen:** DGS.

**23182. KELLOGG, CHARLES EDWIN, 1902-**, and I. J. NYGARD. Exploratory study of the principal soil groups of Alaska. Washington, D. C., March 1951. 138 p., 55 illus. (incl. maps). (U. S.

Dept. of Agriculture. Agricultural Research Administration. Agriculture monograph no. 7)

Contains sections on: methods; geographic setting of Alaska (physiographic areas, glaciation, climate and vegetation); soil formation, including permafrost (p. 26-29); tundra; podsol; subarctic brown forest; bog soils; half-bog soils; ground-water podsoils; mountain tundra and mountain half-bog; alpine meadow; alluvial soils; lithosols; regosols; soil association areas; forage composition in relation to soils; past and present use of soils for agriculture; soil potentialities. Bibliography (29 items). **Copy seen:** DLC.

**23183. KELLY, CLIFFORD DARTON, 1894-**, and others. Aerobiological sampling methods from aircraft. (Canadian journal of botany, June 1951. v. 29, p. 206-214, 2 plates, table, diagr.) Other authors: S. M. Pady and N. V. Polunin. "Report on qualitative and quantitative methods, particularly the latter," which were developed during studies of arctic air, 1947-48. Description of apparatus, discussion of results, concluding statement that "the most important factor in aerobiological sampling would appear to be the origin, direction, and duration of the air which is being sampled." Bibliography (10 items).

**Copy seen:** DGS; DLC.

**KELLY, CLIFFORD DARTON, 1894-**, see also Polunin, N. V., & C. D. Kelly. Arctic aerobiology: fungi & bacteria. 1952. No. 25191.

**23184. KELLY, EUGENE.** Justice for the Alaska Indians. Shall we play the white man's game once more? (American Indian, Summer 1944. v. 1, no. 4, p. 3-7)

Critical comment on hardship suffered by Indians under the white man's economic activities and social practices in Alaska: encroachments on natives' fishing and trapping sites, increase of disease and inadequate health service, seasonal occupation and low wages as the Indians change from their native way of life to white man's work, food and housing. Need for hunting and fishing reservations is stressed.

**Copy seen:** DLC.

**KELLY, J. J.**, see Kampe, H. J., & others. Influence temperature on shape of ice crystals. 1951. No. 23101.

**23185. KELLY, JOHN E.** Northern iron ore meets strategic needs. Part 1. Hollinger-Hanna combined efforts develop important accessible reserves. (Mining congress journal, Aug. 1950. v. 36, no. 8, p. 34-37, 61, illus., 2 sketch maps)

Discussion of strategic location, grade and tonnage of ore, financial organization, and construction plans of the iron ore development on the Quebec-Labrador boundary at about 54° N., 65°-67° W.

**Copy seen:** DGS.

**23186. KELLY, L. V.** Lady in distress. (Beaver, June 1951. Outfit 282, no. 1, p. 25-29, illus., map)

Saga of the Hudson's Bay Co. schooner *Lady Kindersley*, built in 1920 for service in the western Arctic, and lost in the pack ice after drifting eastward from Point Barrow in Beaufort Sea, then westward into Chukchi Sea, where she was abandoned Aug. 31, 1924.

**Copy seen:** DSI-M.

**KELSALL, JOHN P.**, see Banfield, A. W. F. Second report Barren-ground Caribou Invest. 1952. No. 20443.

**23187. KELITKANGAS, VALTER.** Ojittettujen soitten viljavuus eli puunituotokyky metsätuotteenvalossa. Helsinki, 1947. 237 p., tables. (Acta forestalia fennica, v. 53, no. 1) **Title tr.:** The fertility of drained bogs as shown by their tree-producing capacity, considered in relation to the theory of forest types.

Contains an analysis of A. K. Cajander's theory that particular bog types, after sufficient drainage, develop into certain forest types: poor bogs into poor forest types, better bogs into forests with higher demands. Melin and other Swedish scientists claim however, that the forest type is conditioned by sufficiently rapid and thorough drainage and the complete decomposition of the surface peat. Both viewpoints are analyzed in detail in this paper with conclusion that while complete drainage and decomposition of a good bog-type is essential for producing a good forest, bogs poor in nutrients cannot, within a reasonable time and cost be changed into good forests. This affirms to some extent Cajander's ideas. The study includes forests (and bogs) of arctic areas. Bibliography (over 105 items). Summaries in Swedish and English.

**Copy seen:** DA.

**KEMNER, N. A.**, see Tjeder, B. *Catalogus insectorum Sueciae*, I. 1940. No. 26732.

**23188. KENNEL, JULIUS THOMAS, von, 1854-1939.** Neue Wickler des palaearctischen Gebietes aus den Sammlungen der Herren O. Staudinger und A. Bang-Haas. (Deutsche entomologische Zeitschrift *Iris*, 1900, pub. 1901. Bd. 13, Heft 2, p. 205-305) *Title tr.*: New tortricid moths of palaearctic region from the collections of O. Staudinger and A. Bang-Haas.

*Contains* descriptions of about 115 new species of tortricid moths, including *Penthina demissina* n. sp. from Labrador and *P. moeshleri* native to Alten, in northern Norway.

*Copy seen:* MH-Z.

**23189. KENT, ANN P.** The mobile health unit's first season; a preliminary report. (Alaska's health, Oct. 1945. v. 3, no. 10, p. [2-3]).

Brief report on the first trip, Apr.-Oct. 1945, of the motor vessel *Hygiene* for service in southeastern Alaska; sketch of the functions of the unit in "communicable diseases control, maternal and child welfare, tuberculosis and venereal disease control, sanitary inspection and health education." *Copy seen:* DLC.

**23190. KENYON, KARL WALTON, 1918-** . Distribution of albatrosses in the North Pacific and adjacent waters. (Condor, May-June 1950. v. 52, p. 97-103, illus., map) Observations made in the summers 1947-49, in Bering Sea as far north as the Pribilof Islands, along the Aleutian Islands to Attu and in the Gulf of Alaska, on black-footed, short-tailed, and Laysan albatrosses. Bibliography (7 items).

*Copy seen:* DSI-M.

**23191. KENYON, KARL WALTON, 1918-** . Diving depths of the Steller sea lion and Alaska fur seal. (Journal of mammalogy, May 1952. v. 33, p. 245-46)

*Contains* notes of observations made by a fisherman, Herman Kitka, on the habits of seals in robbing fish lines near Sitka, southeast Alaska. The fur seal *Callorhinus* rarely dives below 30 fathoms; the sea lion *Eumetopias* can dive to 100, and usually is found at from 60-80 fathoms.

*Copy seen:* DGS.

**23192. KEPPEN, FEDOR PETROVICH, 1833-1908.** Zamŕtŕki o geografi-

cheskom rasprostraneniĭ sŕvernoruskikh zhukov. (Russkoe ŕntomologicheskoe obshchestvo, St. Petersburg. Trudy, 1867. t. 4, p. 29-60) *Title tr.*: Notes on geographic distribution of beetles of North Russia.

*Contains* data on geographic distribution of the beetles of North Russia, on the northern limits of some species, on relationship of coleopterous faunas of northern Russia and North America, on vicarious species and a systematic list of about 200 species occurring in northern regions of Russia and "Russian America" i. e. Alaska.

*Copy seen:* MH-Z.

**23193. KERÄNEN, JAAKKO, 1883-** . Beiträge zur Kenntnis des Frostes im Erdboden. Helsinki, 1923. 35 p., tables. (Suomalainen tiedeakatemia. Annales Academiae scientiarum fennicae, A20:6) *Title tr.*: Contributions to the knowledge of frost in the ground.

On the basis of others' observations at Pavlovsk, Potsdam, etc., and his own work at Sodankylä in northern Finland, the author discusses the various methods used in ground temperature measurements and their accuracy; some irregularities in the course of ground frost; the periods of freezing and thawing of the frost at various depths and the effect of thermal currents from deeper layers upon the ground frost. *Copy seen:* DLC.

**23194. KERÄNEN, JAAKKO, 1883-** . Blitzschlag als Zŕnder der Waldbrände im nŕrdlichen Finnland. Helsinki, 1929. 8 p. tables. (Acta forestalia fennica, v. 34, p. 25) *Title tr.*: Lightning as cause of forest fires in northern Finland.

By the divisional director of Central Meteorological Station.

*Copy seen:* DLC.

**23195. KERÄNEN, JAAKKO, 1883-** . Die Dichte des frischgefallenen Schnees in Sodankylä im Winter 1917-18 nach den Beobachtungen von H. Lindfors. Helsinki, 1920. 15 p., tables. (Suomalainen teideakatemia. Annales Academiae scientiarum fennicae, A13:8) *Title tr.*: The thickness of freshly-fallen snow in Sodankylä during the winter 1917-18, according to the observations of H. Lindfors.

Tabulation of daily (or frequent) measurements Sept. 30, 1917-Feb. 22, 1918, with remarks, comparison with new-fallen snow depths in other localities

having different air temperatures from Sodankylä. **Copied seen:** DLC.

**23196. KERÄNEN, JAAKKO, 1883-** . Kompassin eranto Suomessa. (Maanmittaus, 1945. v. 20, no. 3-4, p. 68-72, map) **Title tr.:** Compass deviation in Finland.

*Contains a brief historical survey of magnetic measurements in Finland 1500-1939; data on compass delineation areas of disturbance; compass deviation, etc.*

**Copied seen:** DLC.

**23197. KERÄNEN, JAAKKO, 1883-** . Lämpöoloista puiden ja eräiden pensaiden kasvupaikkojen pohjoisilla rajoilla Suomessa. Helsinki, 1934. 21 p., tables. (Acta forestalia fennica, 40:26) **Title tr.:** Temperature conditions at the northernmost limits of trees and some bushes in Finland.

*Contains data on winter and summer temperatures and the northernmost latitude or area of growth for mezoneon, buckthorn, alder, linden, elm, maple, hazel, ash, oak, Sorbus fennica, yew, and Sorbus scandica. Summary in English.*

**Copied seen:** DLC.

**23198. KERÄNEN, JAAKKO, 1883-** . Lämpötila ja lämpötila maatalousilmastollisina tekijöinä Suomessa. (Terra, 1942. 54:1-2, p. 132-51, tables, map, diagrs.) **Title tr.:** Heat economy and temperature as agro-climatic factors in Finland.

*Contains discussion of radiation and its use; heat economy in Sodankylä as contrasted with that in Helsinki; heat energy in the far North; temperature and its effect on plant growth and time of planting; warm years with climatic data from Inari and Sodankylä; cold years; dependence of the harvest on temperature conditions; effect of frost. Bibliography (20 items). Summary in German.*

**Copied seen:** DLC.

**23199. KERÄNEN, JAAKKO, 1883-** . On frost formation in soil. Helsingfors, 1951. 14 p. (Fennia, v. 73, no. 1)

*"Frost formation in soil is considered as a negative heat phenomenon. The depth of frost penetration is calculated theoretically as a function of the cold stream, the accumulated heat amount, and the volume percentage of water in the soil. Heat accumulated in the soil during the summer creates a flow in the deeper soil layers during the winter. The intensity and capacity of the accumulated*

*heat to thaw frost from below are indicated. Results of observations of temperature and moisture conditions in drained and ditched soil during the winter indicate that thawing from below was greater in the ditched fields. Moisture decreased in passing from the frost layer to the underlying unfrozen ground. Water capillarity in frozen soil, supercooling of soil and the freezing of water pipes are described. The existence of frozen layers in the ground at various depths and their effect on plant growth are discussed."*—SIPRE.

**Copied seen:** DA; DGS.

**23200. KERÄNEN, JAAKKO, 1883-** . On the secular change of the earth's magnetic force in northern Europe during the period 1910-1925. Helsinki, 1927. 17 p., tables, diagr. (Suomalainen tiedeakatemia. Annales Academiae scientiarum fennicae, A28:3)

*On the basis of values from the magnetic observatories at Rude Skov 55°08' N., Pavlovsk 59°07' N., and Sodankylä 67°04' N. lat., and results of observations at 36 repeat stations in Finland, the author determined the secular change of declination for this period; he shows on map "lines of equal annual values of the secular variation in northern Europe during 1922-1925."* **Copied seen:** DLC.

**23201. KERÄNEN, JAAKKO, 1883-** . On the secular variation of the geomagnetic force in Finland since 1830. (Finland. Geodetiska Institutet. (Suomen Geodeettisen Laitoksen) Julkaisuja, 1949. no. 36, p. 115-17, diagrs.) Includes data from Sodankylä (67°26' N., 26°34' E.) since 1910.

**Copied seen:** DLC.

**23202. KERÄNEN, JAAKKO, 1883-** . Die Polarforschung und die Teilnahme Finnlands an derselben. (Suomalainen tiedeakatemia, Helsingfors. Sitzungsberichte, 1932. p. 70-84, illus.) **Title tr.:** Polar exploration and Finland's participation in it.

*Brief report on the Finnish contribution to the First International Polar Year program (1882-83), made largely from the Sodankylä meteorological station; and plans for the Second International Polar Year (1932-33) which are to include studies of meteorology, geophysics, electric currents of the earth, radiation and auroras.*

**Copied seen:** DLC.

**23203. KERÄNEN, JAAKKO, 1883-** . Polarivuositutkimuksista. (Terra, 1932.

v. 44, no. 3, p. 155-66, illus.) *Title tr.*: Polar year studies.

Remarks on the First International Polar Year 1882-83 and its achievements: plans for the Second International Polar Year 1932-33 with fifty nations participating, the fields of investigation (and 43 stations indicated on map), projected Finnish participation: auroral studies, magnetic, meteorological and other work, observation stations including (with illus.) Sodankylä, Petsamo, and Kemi in northern Finland. Summary in German.

*Copy seen:* DLC.

**23204. KERÄNEN, JAAKKO, 1883-** . Temperaturkarten von Finnland. Helsinki, 1925. 21 p., 9 plates (18 maps), tables. (Finland. Meteorologinen keskuslaitos. Toimituksia. (Meteorologische Zentralanstalt. Mitteilungen), no. 17) *Title tr.*: Temperature charts of Finland.

Contains introductory part on apparatus and methods; the air temperature of Finland (in C°) based on data from about 100 stations and reduced to the period 1891-1920; charts of monthly isotherms; charts on temperature variations, means, etc.

*Copy seen:* DLC.

**23205. KERÄNEN, JAAKKO, 1883-** . Über die photometrische Ortshelligkeit in Helsinki und Sodankylä nach Messungen mit Graukeilphotometern. Helsinki, 1932. 22 p., tables. (Suomalainen tiedeakatemia. Annales Academiae scientiarum fennicae, A36:2) *Title tr.*: Photometric local brightness in Helsinki and Sodankylä according to measurements with the gray-wedge photometer.

On the basis of measurements made during four and one-half years in Helsinki and 20 months at Sodankylä, direct and indirect factors affecting brightness are analyzed as well as annual and diurnal changes.

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**23206. KERÄNEN, JAAKKO, 1883-** . Über die Temperatur des Bodens und der Schneedecke in Sodankylä nach Beobachtungen mit Thermoelementen. Helsinki, 1920. p. l., 197, [2] p. incl. tables, illus., 8 fold. diagrs. (Suomalainen tiedeakatemia. Annales Academiae scientiarum Fennicae. Ser. A, t. 13, no. 7) *Title tr.*: Temperature of the ground and snowcover in Sodankylä according to observations with thermo-elements.

Results of observations carried out in Sodankylä, Finland (67°26' N., 26°34' E.) in 1915-17, for testing new methods for

measurement of snow and ground temperature by using thermo-elements. Description of the method and appraisal of its accuracy; analysis of observational data; mean values of temperatures, relation between snow temperature at the surface and in depth, ground temperature at the surface and in depth. Tabular presentation of snow temperature measurements to a depth of 80 cm., and ground temperature to 160 cm.

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**23207. KERÄNEN, JAAKKO, 1883-** . Übersicht über die Tätigkeit des Observatoriums zu Sodankylä in den Jahren 1914-1943. (Suomalainen tiedeakatemia, Helsingfors. Sitzungsberichte, 1944, p. 87-100) *Title tr.*: A review of the activity of the Sodankylä Observatory during the years 1914-1943.

Survey, by its first director, of the Observatory's first 30 years' work, published results and personnel in the fields of meteorology, terrestrial magnetism, auroral studies, etc.; its contribution to the program of the Second International Polar Year.

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**KERÄNEN, JAAKKO, 1883-** , see also Hustich, I., ed. Recent climatic fluctuations Finland; symposium. 1952. No. 22755.

**KERNOHAN, G. A.,** see Greenfield, A. D. M., & others. Heat loss from toes in cold water. 1951. No. 22204.

**23208. KERNS, W. H.** Investigation of Taylor Creek lead-zinc deposit, Kupreanof Island, Petersburg, Alaska. Washington, D. C., 1950. 13 p. incl. tables. 3 maps, 3 diagrs. (U. S. Bureau of Mines. Report of investigations, 4669) Mimeographed.

Based on results of diamond drilling, Nov. 1948, in a property at about 56°47' N., 133°22' W. Notes are given on location, accessibility, physical features, climate, history, production, the general geology, and deposits. Logs of the drill holes, core and sludge assays, are presented in tabular form.

*Copy seen:* DGS.

**23209. KERR, PAUL FRANCIS, 1897-** . The earth's uranium. (Scientific American, May 1951. v. 184, no. 5, p. 17-21, illus., 2 maps) Brief account of worldwide sources of uranium including remarks (p. 20) on the Canadian deposits at Great Bear Lake and southward.

*Copy seen:* DLC.

**23210. KERRICH, G. J.** Preliminary note on some European species of *Bassus* Fallén (Hym., Ichneumonidae). (Opuscula entomologica, 1936. Bd. 1, häft. 2, p. 53-55, illus.)

Contains critical notes on three species of ichneumon flies of the genus *Bassus*, including *B. tricinatus* auctt. = *B. flavolineatus* Zett., native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**23211. KERSWILL, C. J.** The distribution of pteropods in the waters of eastern Canada and Newfoundland. (Canada. Fisheries Research Board. Journal, May 1940. v. 5, p. 23-31, 4 maps) Includes brief notes on *Clione limacina* and *Limacina helicina* in Hudson Bay and Strait. **Copy seen:** DLC; DSI-M.

**23212. KERTÉSZ, M.** Ueber die finnisch-ugrische Wortfolge. (Finnisch-ugrische Forschungen, 1923-24. Bd. 16, p. 46-64) **Title tr.:** On the order of words in a Finno-Ugric sentence.

Includes the practice in Vogulian and Ostyak languages among others.

**Copy seen:** DLC; InU.

**23213. KESO, LAURI.** Tärkeimmät maalamimme ja niiden fysikaaliset ominaisuudet. (Teknillinen aikakauslehti, 1936. v. 26, p. 435-48, illus., tables, map) **Title tr.:** Most important soils in Finland and their physical properties.

Contains description of seven main soil types (28 sub-divisions) in Finland, of which three main types occur north of the Arctic Circle. Tabular data are given on their physical and chemical properties, capillary water characteristics and cultivation value; suggestion of additional textural and structural studies of soils. Summary in English.

**Copy seen:** DLC.

**KESSLER, E. P.,** see Akademiä nauk SSSR. Khibinskaiä gornaiä stantsiä. Khibinskaiä gornaiä stantsiä. 1934. No. 20100.

**23214. KESSLER, KARL FEDOROVICH, 1815-1881.** Russkie rëchnye raki. (Russkoe entomologicheskoe obshchestvo, St. Petersburg. Trudy, 1875. t. 8, p. 228-320, plates 1-5) **Title tr.:** River crawfishes of Russia.

Contains a systematic revision of five species of fresh-water crawfish, including a description of *Astacus leptodactylus*, native to the rivers of northern European and Asiatic Russia, with synonymy and data on their biology, ecology, embryol-

ogy and life habits; a bibliography (93 items) and additions (p. 317-20).

**Copy seen:** MH-Z.

**23215. KESSLER, PAUL L.** Das eiszeitliche Klima und seine geologischen Wirkungen im nicht vereisten Gebiet. Stuttgart, E. Schweizerbart'sche Verlagsb., 1925. **Title tr.:** The glacial climate and its geological effects in the unglaciated region.

"Climate between Scandinavian and Alpine ice very cold in winter, but with hot spells in summer. Mean annual temperature below -2° C. Great daily range. Cold dry winds off northern ice interrupted in spring by föhn. Upper winds westerly."—*Meteorological abstracts and bibliography*, July 1950. v. 1, no. 7, p. 459.

**Copy seen:** DLC.

**KETCHER, IÄ. IÄ.,** see Akademiä nauk SSSR. Khibinskaiä gornaiä stantsiä. Khibinskaiä gornaiä stantsiä. 1934. No. 20100.

**23216. KEUSSLER, GERHARD.** Die geographische Verbreitung der Pirolaceen. (Tartu (Ür'ev or Dorpat) Estonia. Universitas. Hortus botanicus. Acta, 1900. t. 1, vyp. 1, p. 12-31) **Title tr.:** Geographical distribution of Pirolaceae.

Contains a study of geographic distribution of all known species of the wintergreen family (Pirolaceae), with a general review of distribution in Europe, Asia and America and data on northern limits; an enumeration of 31 species with their localities, including *Pirola chlorantha* (northern Norway, Labrador), *P. media* (Norway, 70' N.), *P. minor* (Asia, Alaska, Greenland), *P. secunda* (Scandinavia, Kola Peninsula, arctic Siberia, Alaska, Greenland), and *P. uniflora* (arctic Europe, Asia, from Alaska to Labrador). Bibliography (88 items).

**Copy seen:** DA; MH-A.

**23217. KEVE, A.** Preliminary note on the geographical variation of the hazel grouse (*Tetrastes bonasia* (L.)). (Dansk ornithologisk forening. Tidsskrift, 1948. Årg. 42, hefte 3, p. 162-64)

Contains a revision of the distribution of the hazel grouse based on a study of the bird collection of the Zoological Museum at Vienna. The species is divided by the author into two color groups, including a grey northern group, to which belong specimens from Lapland. Summary in Danish.

**Copy seen:** DA; MH-Z.

**23218. KEYNES, G. L.** Cold, R. A. F.'s other enemy, is beaten. (Military surgeon, July 1944. v. 95, p. 3-5)

*Contains* information on gloves used by the pilots of the R. A. F.; clothing including electrically heated flying suits; heating the interior of the aircraft; body regions most commonly affected by frost-bite.

*Copy seen:* DLC.

**KEYS, ANCEL,** *see* Henschel, A., & others. Some responses to hot & cold test meals. 1949. No. 22577.

**23219. KHAKIMOV, KH. R.** Dannye opyta po s'emu tepla iz grunta pri zamorazhivanii. (Gidrotekhnicheskoe stroitel'stvo, Nov. 1952. v. 21, no. 11, p. 17-20, diagrs., tables) *Title tr.:* Data on an experiment on heat removal from the ground during freezing.

*Contains* a study made during artificial freezing of the ground up to a depth of 67 meters. Data include distribution and size of freezing wells; duration of freezing; temperatures of freezing mixtures, etc. The formula arrived at is based on over a dozen factors, including time of freezing, ground temperature and its coefficient of heat conductivity, temperature and heat of fusion, ground porosity, etc. Bibliography (4 items).

*Copy seen:* DLC.

**23220. KHAKIMOV, KH. R.** K voprosu ob uchete vliianiia fil'tratsionnogo potoka pri zamorazhivanii gruntov. (Gidrotekhnicheskoe stroitel'stvo, Sept. 1952. v. 21, no. 9, p. 12-16, diagrs.) *Title tr.:* On the problem of calculating the effect of the filtration current during the freezing of ground.

*Contains* a theoretical study based on a limited number of data known from experience. The dependence between the rate of the filtration current of the water and the interval between the freezing holes as related to the freezing temperature is studied and a formula for practical use is offered; some propositions are of a preliminary nature and await confirmation or refinement based on further investigation. Bibliography (4 items).

*Copy seen:* DLC.

**23221. KHALDEEV, VENIAMIN DIO-MIDOVICH.** Ĭakutskaiā ASSR. Moskva, Izd-vo Planovoe khoziaistvo, 1927. 98 p., illus., maps (1 fold.). (Ėkonomiko-geograficheskie ocherki SSSR, kn. 14, Ralony Severnoi Azii, vyp. 3) *Title tr.:* Yakut A.S.S.R. (Economic geographic

works on the U.S.S.R., kn. 14, Northern Asia region, pt. 3)

*Deals with* the geography, population, agriculture, forests and industry of the area. Prospects for development of the economy of Yakutia.

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**23222. KHALDEEV, VENIAMIN DIO-MIDOVICH.** Ĭakutskaiā ėkspeditsiia. (Sovetskaiā Azia, 1928. god 4, no. 1, p. 96-99) *Title tr.:* The Yakut Expedition.

*Contains* short account of the work of a projected five-year expedition (under auspices of the Academy of Sciences, organized by the Commission for the Study of Yakutia) which started in 1925. Its purpose was to investigate the economic situation and find ways for its improvement, to discover the cause of a high mortality among the population, to prepare a new and accurate map of the region (scale 1:500,000) etc. Aero-meteorological stations were to be established in 1928 at Verkhoyansk, Sredne-Kolymsk, and on Laptev Island.

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**23223. KHALDINOVA, N. A.** Materialy po razmnzheniiu i razvitiu belomorskoi navagi (*Eleginus navaga* Pall). (Zoologicheskii zhurnal, 1936. T. 15, vyp. 2, p. 321-39, illus., text map) *Title tr.:* Study on the spawning, eggs and larvae of the White Sea navaga (*Eleginus navaga* Pall.).

*Contains* the results of the author's study of the spawning, eggs and larvae of the cod *Eleginus (Gadus) navaga* carried out in Onega Bay, White Sea, in 1934; including data on artificial fertilization and incubation of eggs of this important commercial fish; bibliography (19 items). Summary in English.

*Copy seen:* MH-Z.

**23224. KHALKIOPOV, A. D.** Prime-nenie torfa v avtotraktornykh gazogeneratorakh. Leningrad, Leningradskoe gazetno-zhurnal'noe i knizhnoe izd-vo, 1945. 105 p., illus., tables. *Title tr.:* Use of peat in the gas generators of auto-tractors.

*Contains* a monographic treatment of the use of peat (abundant in many northern localities) as fuel in self-propelling vehicles (cars, tractors, etc.) with chapters on: the physico-technical characteristics of peat; use of peat in chunk or brick form in gas generators of auto-tractors; use of peat-coke for the same

purpose; general conclusions. Bibliography (44 items). *Copy seen:* DLC.

**23225. KHANDROSS, L.** Novye mestorozhdeniia iskopaemykh smol v SSSR. (Priroda 1939. god 28, no. 7, p. 67-69) *Title tr.:* New deposits of fossil resins in the U.S.S.R.

*Contains* a note on new localities where amber has been found, its quality, amount and geology of the deposits; also on extensive finds of copal in the Taymyr-Khatanga area. The latter are connected with coal formations in the Kheta River basin. (71°54' N., 102°03' E.).

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**23226. KHANDROSS, L.** Svintsovo-ginkovye mestorozhdeniia Karelii i Murmana. (Karelo-Murmanskii krai, 1933. v. 11, no. 5-6, p. 58-60, illus.) *Title tr.:* The lead-zinc deposits of Karelia and the Murman.

*Contains* a brief, technical account of the discoveries of lead-zinc deposits, their location and connections with transportation routes. Bibliography (27 items).

*Copy seen:* DLC.

**23227. KHARITONOV, D. V.** Katalog der russischen Spinnen. Leningrad, 1932. 205 p. (Akademii nauk SSSR. Zoologicheskii muzei. Ezhegodnik, t. 32, prilozhenie) *Title tr.* Catalog of Russian spiders.

*Contains* introduction (German and Russian text), p. 1-13; a systematic list of all known species of spiders (Arachnida) of Russia, including many species, native to northern regions, with brief synonymy and list of localities, a bibliography (379 items) and an index of families and genera.

*Copy seen:* DLC; MH-Z.

**23228. KHARITONOVICH, F. N.** Vliianie listvennykh nasazhdenii na snegonakoplenie i promerzanie pochvy. (Lesnoe khoziaistvo, Aug. 1938, no. 2 (8) p. 71-75, tables) *Title tr.:* The influence of leafy plantations on the snow accumulation and freezing of ground.

*Contains* a comparison between unplanted areas and those covered with leafy trees, in regard to amount of accumulated snow, rate of thawing, depth of freezing of the ground, water reserve in the snow, etc. The effect of kind, age and extent of the forest is also considered.

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**23229. KHAR'KOV, I. I.** Chernyi al'bumin iz krovi morskikh zhivotnykh

(belukhi). (Rybnoe khoziaistvo Dal'nego Vostoka, 1935. vyp. 13, kv. 1, p. 105-108, tables) *Title tr.:* Black albumen from the blood of sea animals (white whales).

*Description* of processes for isolation of "black" albumen (used in plywood manufacture) from the blood of whales. Analyses and yields of albumen and fibrin obtained by various procedures, and also from the blood of other animals, are given, as well as receipts for preparation of glue from black albumen.

*Copy seen:* DLC.

**23230. KHAR'KOV, I. I.** Ispol'zovanie podkozhnogo sala kashalota dla polucheniia zhira i kozhevnogo syr'a. (Rybnoe khoziaistvo, July 1952. v. 28, no. 7, p. 14-17, illus., tables) *Title tr.:* Utilization of the blubber of the sperm-whale for oil and leather production.

*Contains* description of a method developed by M. G. Rusakov and the author which enables utilization of the fat-containing tissues in leather and glue manufacture, after the oil has been removed. The method entails cutting-up of blubber sections into several layers, removal of the oil, pressing and processing of the defatted skin layers, etc. Data on experiments with this method are offered.

*Copy seen:* DLC.

**23231. KHARUZIN, NIKOLAI.** Russkie lopari; ocherki proshlago i sovremennago byta. Moskva, 1890. 472 p. 4 plates, map. (Obshchestvo ljubitelei estestvoznaniia, antropologii i etnografii. Izvestiia, t. 66. Trudy etnograficheskago otdela, t. 10) *Title tr.:* Russian Lapps; study of their past and present life.

*Contains* extensive monograph on the Kola Lapps: the geography of the Peninsula and its climate; the origin, settlements and history of the Lapps there; their material culture and occupation (food, clothing, dwellings, reindeer-breeding, hunting and fishing); religion and survivals of old beliefs (heathen gods and nature spirits, ideas about the soul, Stallo, idols and sacrifices, native baptismal and name-changing custom, *seide*, invocations to the bear, shamans and magicians); sketches of family and social organization (ancestor worship, sexual attitudes, family property marks, marriage customs and relations between husband and wife, childbirth, parents and children, mortuary customs, tradi-

tional laws and justice, entertainments); folk poetry (legends about the origin of animals, tales of the giant Stallo and the netherworld, mythological motifs of the sun's sons and daughters, historical and heroic narratives, lyrics, and present-day folk creations). *Appendixes* (4) contain: a letter written in 1697 (about a lawsuit), excerpts from juridical documents of 1608-1611, four folk tales, and remarks on the mapping of Kola Peninsula. *Plates* (two in color) show Lapp ornaments, costumes, anthropological types, property marks, etc. *Map* indicates Lapp and Russian settlements. The author sponsored by Obschestvo lûbitel' estestvoznaniâ (Naturalists' Society), spent six months in the Kola region in 1887 studying the juridical conditions. He took over from Konstantin Shchekoldun, many tales and narratives which are published in this book.

*Copy seen:* DSI.

**23232. KHAZANOVICH, AMALIĀ M.** "Krasnyi chum" v Khatangskoi tundre. Leningrad, Izd-vo Glavsevmorputi, 1939. 55 p., illus., map., 20 cm. (Biblioteka "Stakhanovtsy Arktiki," kn. 11) *Title tr.:* The "red tent" in the Khatanga tundra.

A story of the first steps in Communist cultural and educational activity during 1936-37 amongst the Nganasany (Tawgis), a small Samoyed tribe leading a nomadic life in this part of Taymyr Peninsula.

*Copy seen:* DLC.

**KHEIFETS, I. Z.,** see Spizharskii, T. N., & others. Geologiya iuzhnoi chasti Sartano-Aldychanskogo mezhdurech'ia. 1940. No. 26388.

**23233. KHELEBNIKOV, KIRIL TIMO-FEEVICH, 1776-1838.** Zhizneopisanie Aleksandra Andreevicha Baranova, glavnago pravitel'ia rossiskikh kolonii v Amerike. Sanktpeterburg, V Morskoi tip., 1835. 209 p. *Title tr.:* Biography of Aleksandr Andreevich Baranov, chief director of the Russian colonies in America.

Life and work of Baranov (1747-1819), a merchant of Irkutsk who established a trading post on Kodiak Island in 1791, and was chief manager in Alaska of the Russian American Co. from its organization in 1799 till 1818. Development of the company's trade with data on furs exported and trade goods imported, types of furs, prices, etc.

*Copy seen:* DLC.

**23234. KHMYSNIKOV, PAVEL KON-STANTINOVICH, 1896- , and P. P. SHIRSHOV.** Na "Chelûskin". Leningrad, Izd-vo Glavsevmorputi, 1936. 251 p. 26 plates, map, 2 text maps. (Poliarnaiâ biblioteka) *Title tr.:* On the *Chelûskin*.

Contains a popular account of Otto Ul'evich Shmidt's historic attempt to voyage from the Baltic to Bering Sea on the ice-breaker *Chelûskin*, July 16, 1933-May 1934, an exploit in which the authors took part as hydrographer and biologist respectively (see *Arctic Bibliography* No. 15961, 15965). Chapters: 1 (p. 3-18) Around Scandinavia; 2 (p. 19-22) In the Kara Sea; 3 (p. 43-50) Eastward; 4 (p. 51-57) Ice bound at Kolyuchin Island; 5 (p. 68-88) Loop drift; 6 (p. 89-97) Are we going to winter?; 7 (p. 98-106) Wintering; 8 (p. 107-115) The wreck of *Chelûskin*; 9 (p. 116-39) On the ice; 10 (p. 140-64) An airplane in the camp; 11 (p. 167-73) Routine life on the ice; 12 (p. 174-86) Anxious days; 13 (p. 187-208) Struggle to make a landing strip; 14 (p. 209-228) The end of the second month; 15 (p. 229-35) On solid ground; 16 (p. 236-51) The return trip. Chapters 1-3, 8-10, 15-16 are by Khmysnikov; the rest by Shirshov.

*Copy seen:* DLC; MH.

**23235. KHOLODKOVSKIĬ, NIKOLĀĬ ALEKSANDROVICH, 1852-1921.** Cestodes nouveaux ou peu connus. Troisième série. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1914, pub. 1915. t. 19, no. 4, p. 516-23, illus.) *Title tr.:* New or little known cestodes. Third series.

Contains descriptions and critical notes on seven species of tapeworms (Cestoda), internal parasites of some fishes and other marine animals, including *Cleistobothrium glaciale* n. sp., found in the intestine of the eared seal, *Otaria ursina* in Kamchatka waters, and *Dibothriocephalus lanceolatus* in the bearded seal, *Phoca barbatus* collected in the Kara Sea. Series 1 and 2 do not include arctic material.

*Copy seen:* DLC; MH-Z.

**23236. KHOMICH, L. V.** Nentsy malozemel'skoi tundry. (Vsesoiuznoe geograficheskoe obschestvo. Izvestiia. 1951. t. 83, p. 40-47, illus.) *Title tr.:* The Nentsy of the Malozemel'skaya Tundra.

Report on materials collected during 1949 (in the region ca. 67°40' N., 50° E.)

concerning five collectivized settlements of reindeer-breeding Samoyeds. The economy and progress of the kolkhozes is sketched, the peoples' hunting activities (centered on the winter season), fishing and dairying; housing and ways of life; communications, etc. **Copy seen:** DLC.

**23237. KHORDIKAINEN, A.** Tšeny na tresku i interesy promyslovogo khozjalstva na Murmane. (Leningradskaja oblast', Apr. 1928. v. 1, no. 4, p. 91-95) **Title tr.:** Prices of cod and interests of the industrial economy in Murman.

An analysis of the Barents Sea cod-fishing industry in its economic and technological aspects and recommendations for its improvement.

**Copy seen:** DLC.

**23238. KHOROSHIKH, P. P.** Issledovatel' Ākutii; s predislaviem I. I. Maļnova. (Sibirskaia zhivaiia starina, 1925. vyp. 3-4, p. 161-180). **Title tr.:** An explorer of Yakut land; with a foreword by I. I. Maļnov.

Contains account of the life of Vsevolod Mikhailovich Ionov (1851-1922), his work on the ethnology of the Yakuts and Tungus, and a bibliography.

**Copy seen:** DSI.

**23239. KHOROSHIKH, P. P.** Putevye znaki ėvenkov-okhotnikov. (Akademiia nauk SSSR. Institut étnografii. Kratkie soobshcheniia, 1950. t. 10, p. 57-59, 4 illus.) **Title tr.:** The way signs of the Ėvenki [Tungus] hunters.

Contains account of how the Tungus hunter blazes signals on trees in the taiga to indicate to friends the route he has taken, when he will be back, etc.

**Copy seen:** DSI.

**23240. KHOVRIN, A.** Istoriia i zadachi vtorogo mezhdunarodnogo polfarnogo goda. (Mirovedenie, 1932, no. 5, p. 5-19, illus., maps) **Title tr.:** History and problems of the Second International Polar Year.

Starting with the statement that the key to the world weather is in the Arctic, the author outlines the achievements of the First International Polar Year 1882-83, and gives an account of the Soviet participation in solution of the problems of the Second Polar Year, the planned activities of Soviet stations and expeditions, with a map showing distribution of the Russian stations taking part in

the Second International Polar Year program.

**Copy seen:** DLC.

**23241. KHVOROSTANSKIĬ, K. I.** Ob organizatsii *Ichthyobdella versipellis* Diesing. (Viestnik estestvoznaniia, 1890. t. 1, no. 3, p. 114-16, plate) **Title tr.:** On the structure of *Ichthyobdella versipellis* Diesing.

Contains a description of a rare marine fish-lice, *Ichthyobdella versipellis*, found on a Crangon (shrimp) near Kola Bay on the Murman coast.

**Copy seen:** MH-Z.

**23242. KHVOROSTANSKIĬ, K. I.** Vertikal'noe raspredelenie zhivotnykh v Karskom morie. (Viestnik estestvoznaniia, 1892. t. 3, no. 1-2, p. 33-35) **Title tr.:** Vertical distribution of animals in the Kara Sea.

Contains a comparative study of vertical distribution of marine fauna in the Kara Sea (data of Stuxberg, 1882, on Karskom morie), and in the White Sea, with notes on the zoogeographic zones and their marine invertebrate inhabitants.

**Copy seen:** MH-Z.

**23243. KICHKIN, I. I.** Mekhanizatsiia ledoreznykh rabot. (Rechnoi transport, Jan.-Feb. 1952. v. 12, no. 1, p. 42-43, illus., diagr.) **Title tr.:** Mechanization of ice-cutting operations.

Contains a description of an electrically driven machine for cutting ice up to three feet thick: the machine is mounted on a sled, is self-propelling when working, and requires a crew of two; an earlier, not too successful type, is also briefly described.

**Copy seen:** DLC.

**23244. KIDD, G. E.** The skull of a Copper Eskimo. (Man, 1946. v. 46, p. 1-2, 4 illus.)

Description and cranial measurements of a skull which was sent to the Vancouver City Museum by Rev. Father Raymond who writes: "This skull is the pure Eskimo type of the Coronation Gulf, without any blend of another race so far as I know . . . The Eskimo's custom is to expose the dead person in any place on the barren land . . ."

**Copy seen:** DLC; InU.

**23245. KIĀSHEV, A. P.** Klinika i lechenie otmorozheniĭ. (Klinicheskaia meditsina, 1944. t. 22, no. 1-2, p. 25-31) **Title tr.:** Clinical aspects and therapy of frostbite.

Contains sketch of the work of other

investigators, data on the degrees of frostbite and their frequency in the author's material (which consisted largely of men 20-30 years old); pathology and clinical aspects of his patients; x-ray findings; first aid in frostbite; therapy of various degrees, areas and stages of the disease; discussion of methods applied by various authorities; prophylaxis of frostbite. Bibliography (10 items). This paper (same as *Arctic Bibliography* No. 8650) was published in English translation in E. R. Hope, *Frostbite, translations . . . 1939 & 1944*, 1950, (p. 61-68) q. v. **Copy seen:** DLC.

**23246. KILLERICH, ALF BENTHIN, 1902-** . Hydrographic investigations near Disko (Greenland) in the summer of 1949. (International Council for the Study of the Sea. *Annales biologiques*, 1949, *pub.* 1950. v. 6, p. 33-35, diagsr.)

As expected after the study in summer 1948, investigators found the warm undercurrent colder and no warm water flowing northward as in the previous year; surface waters were cold as a result of the hard winter 1948/49, and prediction for 1950 was more cold water.

**Copy seen:** DF; DSI-M.

**23247. KILLERICH, ALF BENTHIN, 1902-** . Hydrography in the neighborhood of Disko (Greenland) in the summer of 1948, with remarks on the cod-fishery. (International Council for the Study of the Sea. *Annales biologiques*, 1948, *pub.* 1949. v. 5, p. 24-29, map, diagsr.)

Discussion and vertical temperature-salinity diagrams of five sections north and west of Disko, including one in outer Umanaq Fiord, which illustrate the stratification and currents of these waters; conjectures concerning possible relation of northward flow of warm Atlantic water to the cod fishing.

**Copy seen:** DF; DSI-M.

**KIJANEN, P.,** see Lytkin, G. S. *Syrjänische Sprachproben. 1892. No. 24057.*

**23248. KILE, ROY L., and H. A. RUSK.** A case of cold urticaria with unusual family history. (American Medical Association. *Journal*, Mar. 23, 1940. v. 114, p. 1067-68, diagr., 2 tables)

Contains a case history of a woman of 25 with extensive family history: out of 47 relatives remembered by the patient and her father, 23 suffered attacks of allergy to cold; the patient's son devel-

oped it at the age of five weeks, but not the daughter; the father, aged 61, still has urticaria and the severity of attacks was similar in all the relatives, according to the informant's knowledge. The case was refractive to all types of therapy.

**Copy seen:** DLC.

**23249. KILLIAN, HANS, 1892-** . Cold injuries with special reference to German experience during World War II. Aulendorf i. Württ., Ed. Cantor Kg., 1952. 138 l. illus., diagsr., tables. Process print.

Translation completed in May 1952 of selected material from an unpublished monograph covering the period 1941-1949. Funds for this work were made available by the Bureau of Medicine and Surgery, Navy Dept., Washington, D. C.

Contains an account of cold injuries, based on the author's experience with 20,000 cases during the German 1941-42 winter offensive in Russia and subsequent experience till 1949; in two parts: 1 (l. 1-46) *General hypothermia*, has sections on cold injury in past wars and peacetime medical reports on frostbite; factors tending to lower deep and peripheral body temperature; description and pathology of general hypothermia; physiology and pathology of acute hypothermia; treatment of general hypothermia. Pt. 2 (l. 47-112) *Local cold injuries*, has chapters on prerequisites for development of local cold injuries; their classification: frequency, degrees and locations; clinical symptoms; complications; special forms and sequelae; physiology and pathology; therapy (early, late, typical, after-treatment); prevention of frostbite. Bibliography (267 items). In an appendix (l. 125-37) *Cold injuries*, A. R. Behnke discusses German, Russian and American ideas on therapy; factors causing frostbite; cold immersion; prevention research, etc.

**Copy seen:** DAL.

**23250. KIMBALL, HERBERT HARVEY, 1862-** . The dense haze of June 10-11, 1912. (Mount Weather Observatory, Bulletin, 1912-13. v. 5, p. 161-65, 3 tables)

"Optical phenomena caused by a smoke-like haze in upper atmosphere are described. Tables give radiation and polarization data. Brief mention that Alaska volcanoes may be responsible."—*Meteorological abstracts and bibliography*, June 1950, v. 1, no. 6, p. 374.

**Copy seen:** DWB.

**23251. KIMBALL, HERBERT HARVEY, 1862-** . The effect of the atmospheric turbidity of 1912 on solar radiation intensities and skylight polarization. (Mount Weather Observatory, Bulletin, 1913. v. 5, p. 295-312, fig., 6 tables)

"Study of effect of haziness upon solar radiation intensities and skylight polarization. This condition, reputed to be caused by Katmai eruption, is briefly compared with radiation conditions after Krakatoa, Pelée, and other eruptions."—*Meteorological abstracts and bibliography*, June 1950. v. 1, no. 6, p. 374.

**Copy seen:** DWB.

**23252. KIMBALL, HERBERT HARVEY, 1862-** . The effect upon atmospheric transparency of the eruption of Katmai volcano. (U. S. Weather Bureau. Monthly weather review, 1913. v. 41, p. 153-59, chart, 3 tables)

"Eruption of June 6, 1912, described; detonations, fall of volcanic ash, haze and smoke. Analysis of spread of volcanic dust. Tables give sky polarization and radiation data, and atmospheric transparency estimates. Reports are collected from various observatories over the U. S. Atmospheric turbidity in Europe in 1912, briefly treated; effects not observed there until June 19-25. Twilight phenomena noted as well as decrease in atmospheric transparency."—*Meteorological abstracts and bibliography*, June 1950. v. 1, no. 6, p. 374.

**Copy seen:** DWB.

**23253. KIMBALL, HERBERT HARVEY, 1862-** . The relation between solar radiation intensities and temperatures of the air in the Northern Hemisphere in 1912-1913. (Mount Weather Observatory. Bulletin, 1914. v. 6, p. 205-220, fig., 7 tables)

"Detailed observations kept in period after Katmai. Chart shows polarization, insolation, and temperature curves for 1912-1913."—*Meteorological abstracts and bibliography*, June 1950. v. 1, no. 6, p. 374.

**Copy seen:** DWB.

**KINARD, F. W.,** *see* Danielson, R. N., & F. W. Kinard. Effects temp. local baths deep muscle temp. 1951. No. 21353.

**23254. KING, JOSEPH EDWIN, 1914-** . Experimental fishing trip to Bering Sea. (Commercial fisheries review, Jan. 1949. v. 11, no. 1, p. 1-13, illus., map). Also issued as U. S. Fish and Wildlife Service. Fishery leaflet 330 (mimeographed).

Account of a commercial test run of the motor vessel *Alaska*, and king crab fishing in the outer portion of Bristol Bay, Aug. 1-Sept. 5, 1948. Description of the ship under test, including equipment, trawls, refrigeration system and crab-cooking equipment; the areas fished (Bristol Bay and south side of Alaska Peninsula for brief period), with results (including halibut, cod, pollock, and crabs). Notes on biology of the king crab, feeding habits of some of the common fish, operating procedure for crab cooking, suitability of the vessel, and hazards to fishing.

*Tables in Fishery leaflet 330 only, give data recording each bottom drag: location, tide, current, depth, bottom, kinds and sizes of catch, and water temperatures.*

**Copy seen:** DI; DLC.

**KING, OTIS J.,** *see* Irwin, E., & others. Ascorbic acid content adrenal glands rats after cold. 1950. No. 22840.

**23255. KING, RICHARD, 1811?-1876.** Temperature des animaux par très grands froids. (Académie des Sciences, Paris. Comptes rendus, 1836, v. 2, p. 621, table) **Title tr.:** The temperature of animals at very great cold.

A brief note on the maintenance of a constant body temperature by animals, with a brief table assembled from the observations of Captain George Back on his Arctic Land Expedition 1833-35 in northern Canada. The temperatures of the black american grouse and the willow grouse are given, together with air temperatures and dates of measurements. See also *Arctic Bibliography*, No. 851 and No. 8704.

**Copy seen:** DSG.

**23256. KINGSTON, DAVE R.** Stratigraphic reconnaissance along upper South Nahanni River, Northwest Territories, Canada. (American Association of Petroleum Geologists. Bulletin, Nov. 1951. v. 35, p. 2409-2426, illus., incl. 2 sketch maps)

Describes the lithologic facies of the Paleozoic (Cambrian-Devonian) exposures, and briefly discusses the structural relations of the Mackenzie Mts. along the upper South Nahanni River (about 62° N., 126°-128° W.). Bibliography (12 items).

**Copy seen:** DLC.

**KIPARISOVA, L. D.,** *see* Samollovich, R. L., & others. Geologiya Arktiki. 1937. No. 25812.

**KIPARISOVA, L. D.**, see also Spizharskii, T. N., & others. Geologičeskaja iŭzhnoĭ chasti Sartano-Adychanskogo mezhdureč'ja. 1940. No. 26388.

**23257. KIPARSKY, VALENTIN.** Russ. *Terskiĭ (bereg)*, altruss. *T'rĕ 'Östküste der Kolahalbinsel' <finn. Tyrjä (nicht Turja).* (Suomalais-ugrilainen seura. Tomituksia, 1950, v. 98, p. 73-78) **Title tr.:** Russian *Terskiĭ (bereg)*, Old Russian *T'rĕ 'eastern shore of Kola Peninsula' <Finn. Tyrjä (not Turja).*

The author shows that it is phonetically impossible to derive the Russian name of the eastern shore of Kola Peninsula from the Finnish back vowel form *Turja*, and that the original form is the front vowel variant *Tyrjä*. **Copy seen:** DLC; InU.

**23258. KIRICHENKO, ALEKSEĬ NIKOLAEVICH.** Beiträge zur Kenntnis palaearktischer Hemipteren, 2. Neue *Aelia* Arten (Hemiptera, Petatomidae) (Konowia, 1929, pub. 1930. Bd. 8, heft. 4, p. 451-56, illus.) **Title tr.:** Contributions to the knowledge of palaearctic Hemiptera, 2. New *Aelia* species.

Contains Latin diagnoses of three new species of bugs of hemipterous genus *Aelia*, including *A. frigida* n. sp. from Verkhojansk region in Yakutia; pt. 1 does not contain arctic material.

**Copy seen:** MH-Z.

**23259. KIRICHENKO, ALEKSEĬ NIKOLAEVICH.** Geograficheskoe rasprostranenie *Argynnis eugenia* Ev. (Lepidoptera, Nymphalidae) po novĭshim dannym. (Russkoe ėntomologicheskoe obozrenie, 1908. t. 8, no. 2, p. 151-54) **Title tr.:** Geographic distribution of *Argynnis eugenia* Ev. (Lepidoptera, Nymphalidae) according to new data.

Contains a study of geographic distribution of a butterfly, *Argynnis eugenia*, and its var. *rhea*, based on new collections of Lepidoptera in the Zoological Museum; the area of this species includes the Pechora River region, Yakutia, eastern Siberia and Kamchatka.

**Copy seen:** DSI-M; MH-Z.

**23260. KIRICHENKO, ALEKSEĬ NIKOLAEVICH.** Nastoiščie poluzhestkokrylye Evropejskoĭ chasti SSSR (Hemiptera). Opredelitel' i bibliografija. Moskva-Leningrad, Izdvo Akademii nauk SSSR, 1951. 423 p. illus. (416 fig.). (In: Akademii nauk

SSSR. Opredeliteli po faune SSSR. no. 42) **Title tr.:** True Hemiptera of the European part of the U.S.S.R. Tables and a bibliography.

Contains in the general part (p. 1-76): characteristics of the order Hemiptera, a morphological survey, and data on the biology, economic importance, paleontology, geographic distribution and phylogeny. In the special part (p. 77-350) are tables for the determination of families, subfamilies, tribes, genera and species, including many species native to Kola Peninsula and Arkhangel'sk province. A bibliography of about 1000 items in a subject arrangement with authors listed at end, is given (p. 351-99), and finally an index to Latin names in the text.

**Copy seen:** DLC.

**23261. KIRICHENKO, ALEKSEĬ NIKOLAEVICH.** Poluzhestkokrylye (Hemiptera-Heteroptera) Kamchatki. (Akademii nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1926. t. 27, vyp. 1, p. 9-28, plate 1) **Title tr.:** Hemiptera-Heteroptera of Kamchatka Peninsula.

Contains an historical review of the entomological investigation of Kamchatka, a list of 57 species of Hemiptera-Heteroptera, collected by Kamchatka Expedition of F. P. Riabushinskii of 1908-1911, with localities and data on total distribution; comparison with other Asiatic faunas and Latin diagnoses of *Trygonotylus bianchii* n. sp. and *Lygus (Agnocoris) rubicundus schmidtii*.

**Copy seen:** DLC; MH-Z.

**23262. KIRICHENKO, G. I.** Novye dannye o geologicheskom stroenii i neftenosnosti Turukhanskogo raiŭna. (Sovetskaiâ geologičeskaja, Sept. 1940, no. 9, p. 54-67, diagrs., map, table) **Title tr.:** New data on the geological structure and oil-bearing deposits of the Turukhansk district.

Contains a report on investigations conducted in the summer of 1939 on the geology and oil prospects of the area about 64°45'-65°45' N., 87°15'-88°50' E. Includes sections on stratigraphy (Proterozoic, Cambrian, Silurian and Paleozoic eras), tectonics, and manifestations of the presence of oil. Positive results are foreseen from additional geological and geochemical investigations. Bibliography (5 items). **Copy seen:** DLC.

**23263. KIRICHENKO, N.** O geologii ostrova Chetyrekhstolbovogo. (Lenin-

grad. Gornyi institut. Zapiski, 1914. t. 5, vyp. 2-3, p. 157-70, illus., map) **Title tr.:** On the geology of Chetyrekhstolbovoy Island.

Based on the author's investigation during a visit to this island in 1912 as geologist of the Arctic Ocean Hydrographic Expedition (Gidrograficheskaya ekspeditsiya Severnogo Ledovitogo okeana) of 1910-15 under Sergeyev and later Vilkitskiy, on ice-breakers *Taimyr* and *Valgach*. An account (in brief) of the 18th century discovery of "Four Pillars" Island (70°40' N., 162°24' E.) in East Siberian Sea; its geographical characteristics with sketch map and photographs of the rock "pillars" ("stolby") from which its name derives; description (in more detail) of minerals found by the author. Bibliographical footnotes.

**Copy seen:** DLC.

**KIRIK, M. F.,** see Belaia, N. K. & M. F. Kirik. K voprosu o lechenii otmorozhenii. 1949. No. 20539.

**23264. KIRIKOV, S. V.** O svyaziakh mezhdu klestami (*Loxia curvirostra* L.) i nekotorymi khvoynymi porodami. (Akademiya nauk SSSR. Izvestiya. Otdel biologicheskikh nauk. Seriya biologicheskaya, 1940, no. 3, p. 359-76) **Title tr.:** On the connections between the red crossbills (*Loxia curvirostra* L.) and coniferous trees.

Contains a study of relationship between this finch-like bird and certain conifers based on material from various regions of Russia, including the Murman coast, northern Ural and Siberia (Yakut region and Okhotsk Sea coast); with data on the seeds of spruce, pine, fir, birch, etc., as the chief source of the crossbill's food and discussion of the influence of geographical and ecological isolation on the size and form of the bill of this bird. Summary in English. **Copy seen:** MH.

**23265. KIRILLOV, F. N.** The sand-eel of Novaya Zemlya (*Ammodytes marinus* raill). (Akademiya nauk SSSR. Comptes rendus (Doklady), 1936. nouv. ser., v. 4 (13), no. 5 (109), p. 233-35, tables)

Morphology and ecological data are presented. **Copy seen:** DLC.

**23266. KIRILLOV, N. V.** Sanitarnaya obstanovka i bolezni polarnykh stran. (Vestnik obshchestvennoy gigieny, sudebnoy i prakticheskoy meditsiny, 1908. v. 44, p. 1769-99, tables) **Title tr.:** The sanitary set-up and the diseases of polar lands.

Contains an account based mainly on conversations with local doctors during the author's visit during the summer of 1905 to Chukotsk Peninsula and Alaska, and on the medical press. The climate, the Russian settlement of Markovo near mouth of Anadyr' River are sketched briefly, with more detail on the Chukchis and Eskimos and their life, food, habits, etc. Description and brief history of Nome is given with some account of diseases prevailing there, its sanitary and socio-economic conditions; health conditions in Alaska in general, common diseases and medical work; alcoholism.

**Copy seen:** DSG.

**23267. KIRK, EDWIN, 1884-** Fossil marine faunas as indicators of climatic conditions. (Smithsonian Institution. Annual report for 1927, pub. 1928. p. 299-307)

Discussion of present-day abundance of life in cold waters (arctic and antarctic) as evidence relevant to theoretical consideration of climates of the past, also discussion of the reliability as indicators, of marine fauna. **Copy seen:** DLC.

**23268. KIRPICHNIKOV, A. A.** K biologii pestsa fugo-zapadnogo poberezh'ia Taimyra. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1937. Otdel. biol. Novaya seriya. t. 46, vyp. 1, p. 52-58) **Title tr.:** On the biology of the blue fox of the southwest coast of Taymyr.

Contains a biological study of the arctic or blue (white) fox (*Alopex lagopus lagopus* L.) of the south-western coast of the Taymyr Peninsula, based chiefly on observations made during the author's wintering on Dikson Island in 1933-34, with data on food, mating, change of color of the pelage and migration. Summary in French.

**Copy seen:** DLC; MH-Z.

**23269. KIRPICHNIKOV, A. A.** Nabludeniya nad morskimi mlekopitayushchimi fugo-vostochnoi chasti Karskogo moria. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1937. Otdel. biol. Novaya seriya, t. 46, vyp. 4, p. 213-17) **Title tr.:** Observations on the marine mammals of the southeast part of Kara Sea.

Contains data on biology of Cetaceans, including *Phoca hispida* birulai, *Erignathus barbatus* and *Delphinapterus leucus* (beluga) based on observations made during the wintering on Dikson Island

in Kara Sea in 1933-34, with data on food, reproduction and migration. Summary in French.

**Copy seen:** DLC; MH-Z.

**KIRPICHNIKOV, M. I.,** see Poplavskaja, G. I., & others. Ocherki po ekologii rastenij. 1937. No. 25207.

**23270. KIRPICHNIKOV, V. S.** Cold-resistance of the Amur wild carp *Cyprinus Carpio Viridiviolaceus* (under conditions prevalent in the central and northern zones of the European USSR). (Akademija nauk SSSR. Comptes rendus (Doklady), 1944. novaja serija, v. 43, no. 1, p. 36-39, tables)

Report of successful experiments in introducing the cold-resistant Amur carp into the northern areas of European Russia.

**Copy seen:** DLC.

**23271. KIRSHENBLAT, I. A. D.,** Novye vidy roda *Philonthus* Curt. (Coleoptera, Staphylinidae) fauny Sovetskogo Sojuzna. (Entomologicheskoe obozrenie, 1950. t. 31, no. 1-2, p. 237-42) **Title tr.:** New species of the genus *Philonthus* Curt. (Coleop. Staphyl.) of the U.S.S.R.

Contains a table for the determination of species of and diagnoses of five new rove beetles of this genus, including *P. propinquus*, n. sp. native to Yakutia.

**Copy seen:** DA; MH-Z.

**23272. KISELEV, IVAN ALEKSANDROVICH, 1888-** . Kriptomonadovye i peridinei Evropejskogo Severa SSSR (Pyrrophyta). (Akademija nauk SSSR. Botanicheskij institut. Trudy, ser. 2, Sporovye rastenija, 1951. vyp. 7, p. 13-164, illus., plates 1-17) **Title tr.:** Cryptomonads and peridinians of the North of European U.S.S.R.

Contains a characterization of freshwater cryptomonads, keys to the genera and species and descriptions of eight species (p. 12-26); followed (p. 26-48) by a study of dinoflagellates (peridians) of the continental basins of this area, with data on characteristics, morphology, biology, ecology, systematics and economic importance. In the special part (p. 49-113) are keys to the classes, suborders, families, genera and species and descriptions of about 60 dinoflagellates, with synonyms, critical notes, references and data on habitat and distribution. Bibliography (about 400 items) and an index of Latin names are appended.

**Copy seen:** DLC.

**23273. KISELEV, IVAN ALEKSANDROVICH, 1888-** . Pantšyrnye zhg-tononosy (Dinoflagellata) morei i presnykh vod SSSR. Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1950. 279 p., illus. (In: Akademija nauk SSSR. Opredeliteli po faune SSSR. no. 33) **Title tr.:** Dinoflagellata of the seas and freshwater basins of the U.S.S.R.

Contains (in the general part) characteristics of Dinoflagellata (Peridinea), a class of algae, their morphology and biology, economic importance, collection and preparation of specimens, fossil peridineans, systematics and phylogeny, a survey of classification and bibliography (51 items). In the systematic part (p. 54-279) are tables for the determination of the genera and species and an enumeration of all known species from fresh-water basins and seas of the U.S.S.R. including those along the northern coast Bering and Okhotsk Seas; index of the Latin names, p. 273-79.

**Copy seen:** DLC; MH-Z.

**23274. KISELEV, IVAN ALEKSANDROVICH, 1888-** . Zhizn' v bolotakh i bolotnye otlozhenija. (In: Akademija nauk SSSR. Zoologicheskij institut. Zhizn' presnykh vod SSSR, 1950. chast' 27, p. 623-82, illus.) **Title tr.:** Life in marshes, and marsh sediments.

Following an account of the formation, classification and conditions of marsh life, an outline of the flora and fauna of Russian marshes is given. The second section of the paper deals with peat bogs; their formation, classification, physico-chemical properties and stratification. The peat reserves of the Soviet Union are given (p. 679-80). Bibliography (70 items).

**Copy seen:** DLC.

**23275. KISELEV, N. V.** Betonirovanie v zimnikh uslovijakh. (Elektricheskie stanšii, Aug. 1952. v. 23, no. 8, p. 49-50, illus.) **Title tr.:** Concrete work in winter conditions.

Contains a description of a new method of warming concrete during the building process in low temperature conditions. Steel pipes 63 mm. in diameter are placed 80-100 cm. apart in the body of the columns, beams, floors, etc. Steam is passed through these pipes, and as soon as the concrete is sufficiently set, the pipes are removed and the steam is directed through the cylindrical conduits left by the pipes; after the completion of the work these hollows can be filled with cement, sand, or left unfilled. **Copy seen:** DLC.

**23276. KISELEV, O. N.** Primenenie ekhologa v izuchenii rel'efa i gruntov Barentsova moria. (Priroda, 1941. god 30, no. 1, p. 69-72, diags.) **Title tr.:** Application of the echo-sounder for studying the relief and bottom of Barents Sea.

Note on the Hughes bathometer used during the cruise of the *Persei* in 1939, and preliminary report on results from its use for submarine topography and detection of type of bottom sediments.

**Copy seen:** DLC.

**23277. KISELEVA, E. F.** K faune komarov Tazovskoi guby. (Gidro-biologicheskii zhurnal SSSR, 1927. t. 6, no. 8-10, p. 232-35, diags.) **Title tr.:** A contribution to the mosquito fauna of Tazovskaya Bay.

Contains a list of six species of mosquitoes, collected by the student Tronov in the summer of 1925, on Cape Povortnyy in the Tazovskaya Bay region (69°05' N., 75° E.) western Siberia, with a tabulation of the air temperature during the captures and a diagram of the development of *Anopheles maculipennis* under conditions prevailing in that region. Summary in German.

**Copy seen:** MH-Z.

**23278. KITCHEN, HERMINIE B.** Facing the hazards; Below the Circle; Snow-capped mountains; Hearts of gold. The first [-fourth] of four chapters of "Four for the frontier." (Alaska sportsman, Aug.-Nov. 1951. v. 17, no. 8, p. 6-11, 32-38; no. 9, p. 18-23, 30-38; no. 10, p. 18-23, 30-37; no. 11, p. 18-21, 26-36, illus.)

Day-by-day account of an automobile tour in summer 1949, along the Alaska Highway from Dawson to Fairbanks, thence by the Steese Highway to Circle, thence via Richardson Highway to Valdez, and via Glenn Highway to Anchorage, returning to Alaska Highway by the Sana-Tok road. Includes much useful information on equipment, accommodations, distances, condition of roads, beauty of landscape, the various towns and notable physical features.

**File seen:** DI.

**KITKA, HERMAN**, see Kenyon, K. W. Diving depths sea lion & fur seal. 1962. No. 23191.

**23279. KIVINEN, ERKKI.** Pohjois-Suomen soiden viljelysmahdollisuudet. (Finland. Maatalousministeriö tuotanto-osa-  
sto Julkaisu. Maatalous ja koetoiminta,

1948. v. 3, p. 7-20, illus., diags.) **Title tr.:** The possibilities of using moorland in northern Finland for farming.

Contains data on the structure of three moor types: (1) former swamps or lakes with built-up convex surface, (2) moors with a slight declivity but built up almost level and (3) level border areas of lakes and swamps, all of which are suitable for conversion to farming. Statistical data are given on main general northern swamp types, also factors affecting plants and the practical use of moors for farming in the far North; new methods (machinery) for converting moors to usable land, etc.

**Copy seen:** DA.

**23280. KIVINEN, LAURI.** Pohjois-Suomen puunjalostusteollisuus. (Metsätaloudellinen aikakauslehti. Finska forstföreningen, 1951. no. 1, p. 4, 24) **Title tr.:** Forest industry of northern Finland.

Contains discussion of causes of the slow development of northern regions of Finland: lack of cheap power (the government began building hydroelectric stations in 1945), high wages and taxes, "expensive transportation, difficult weather conditions", lack of company-owned forests in the North, force up timber production costs. Professional personnel is scarce because of hard living conditions. Author looks to government to "create favorable conditions for further industrial growth in that region". Summary in English.

**Copy seen:** DA.

**23281. KIVIRIKKO, KARL EMIL.** Suomen selkärangaiset. Vertebrata fennica. A. J. Melan v. 1882 julkaiseman Suomen luurankoisetnimisen alkuteoksen pohjalla. Helsinki, Werner Söderström osakeyhtiö, 1940. 833 p., illus., diags. **Title tr.:** Vertebrate animals of Finland. Based on A. J. Melan's work on vertebrate animals of Finland, published in 1882.

Contains encyclopedic data with illustrations on 76 mammals, 314 birds, 6 reptiles, 6 batrachians and 127 fish species occurring in Finland, including those of the North. **Copy seen:** DLC.

**23282. KIZEVETTER, I. V.** Morskije vodorosli DVK, ikh khimicheski sostav i ispol'zovanie. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1938. No. 31 (4), p. 49-109, diags.) **Title tr.:** The seaweeds of the Far East, their chemical composition and utilization.

Contains a chemical and economic

study of marine algae of the Far Eastern (including Bering and Okhotsk) Seas, with chemical analyses of various commercial seaweeds from Far Eastern regions (see tables 1-45), data on their uses, and a tabular summary (no. 46) of 73 marine algae with their chemical analyses; bibliography (98 items).

**Copy seen:** DLC; MH-Z.

**23283. KJELLANDER, ERIC.** De Svenska arterna av familjerna Xiphydriidae, Siricidae och Oryssidae (Hym.). (Opuscula entomologica, 1945. Bd. 10, häft. 1-2, p. 1-15) **Title tr.:** On Swedish species of the families Xiphydriidae, Siricidae and Oryssidae.

**Contains** a study of geographic distribution in Sweden of eleven species and one variety of hymenopterous families Xiphydriidae, Siricidae and Oryssidae, including *Urocerus gigas*, *Sirex juvencus* var. *atricornis* and *Xiphydria camelus* distributed in the whole country (from Skåne to Torne Lappmark) and *Oryssus abietinus* occurring in Torne Lappmark; bibliography (31 items). Summary in German.

**Copy seen:** DA; MH-Z.

**23284. KJELLANDER, ERIC.** Lepidopterologiska notiser II. (Opuscula entomologica, 1944. Bd. 9, häft. 1-2, p. 53-55) **Title tr.:** Notes on Lepidoptera II.

**Contains** a list of 46 butterflies and moths with localities, including *Plebejus nicias*, *Sterrhia serpentata* and *Opisthograptis luteolata*, native to Swedish Lapland; pt. I (1942) does not include arctic material.

**Copy seen:** DA; MH-Z.

**23285. KLAPROTH, JULIUS HEINRICH, 1783-1835.** Asia polyglotta. 2nd ed. Paris, Heideloff & Campe, 1831. xii, 144, 8 p. **Title tr.:** Multi-lingual Asia.

**Contains** comparative lists of words which the author collected during his travels to Siberia and the Caucasus, or took over from the mss. left by other German explorers, chiefly those of F. G. Müller and Dr. Messerschmidt. A more or less extensive introduction (in German) is given for each people, their area, history, race, mode of life, beliefs, etc., based, the author says "almost always on hitherto unused and mostly native sources" (p. x). In this way he describes and gives lists of words (in the vernacular, preceded and arranged by the German equivalent) of the following (among other) peoples: Samoyeds and their various tribes (p. 138-66), Yeniseians

(p. 166-82), Zyryans (p. 186-87), Ob-Ugrians (p. 188-201, including Messerschmidt's lists of Vogulian and Ostyakian words, noted down in 1725-26), Yakuts (p. 230-31), Tungus (p. 286-92), Yakaghirs (p. 315-17), Koryaks (p. 317-20), Kamchadals (p. 320-22), "Polar Americans" in Asia, i.e. Chukchis and Eskimos (p. 322-25). The author is said to be not always reliable, and suggestions have been made that some of his "Asiatic words" are of his own invention.

**Copy seen:** DLC.

**23286. KLAUSEN, LAUST ANDREAS, 1902-** . Greenlandic dictionary of useful phrases and military terms, by Pastor A. Klausen. Julianehaab, Greenland; edited by Chaplain William J. Walsh with the help of Lt. B. F. Hoffman and Mr. Charles Sheehan. [Washington, 1942] 51, 7 p. reproduced from type-written copy.

**Contains** lists of words and expressions (in English, Greenlandic and its phonetic representation) arranged by subject and practical use (52 p.); also alphabetic list of about 350 Greenlandic words with English equivalent.

**Copy seen:** DLC.

**23287. KLEBELSBERG zu THUMBERG, RAIMUND von.** Handbuch der Gletscherkunde und Glacial-geologie. Wien, Springer Verlag, 1948. 1028 p. incl. illus. tables, graphs, diagrs. **Title tr.:** Handbook of glaciology and glacial geology.

A comprehensive treatise on general, historical and regional glaciology. Vol. 1 (general part) deals with (a) glaciology: types of ice, glacier formation, structure, movements, surface, beds, classification, catastrophes, calving, etc.; (b) glacial geology: glacial deposits, moraines, erosions, changes of sea-levels due to glaciation. Vol. 2 (historical-regional part) deals with the Quaternary and pre-Quaternary glaciation of the various continents and includes the following arctic areas: Greenland, the Canadian Arctic Islands and Alaska during the Quaternary (p. 472-90), and Spitsbergen, Franz Josef Land, Iceland, Jan Mayen, Scandinavia and Finland (p. 570-99), the Urals (p. 653-55), Severnaya Zemlya, Novo-Sibirskiye Ostrova and Siberia (p. 754-60) during the same epoch. Brief references to arctic areas are found in the section on pre-Quaternary glaciation (p. 854-912). Bibliography (about 2000 items).

This work is summarized and discussed and additional literature indicated by J.

Sölch, *Neue Handbucker zur Gletscher- und Eiszeitkunde*, in Geographisches Gesellschaft in Wien, Mitteilungen 1950, Bd. 92, p. 97-101. **Copy seen:** DLC.

**23288. KLEFBECK, E.** Sällsynta eller nya Neuroptera Trichoptera. (Entomologist tidskrift, 1928. Årg. 49, häft. 2, p. 110-11) **Title tr.:** Rare or new Neuroptera Trichoptera.

**Contains** a list of 16 rare or new species of caddis flies with localities, including six native to Torne and Lule Lappmark.

**Copy seen:** DA; MH-Z.

**KLEIN, GEORGE J.**, see Canadian mining journal. Aircraft ski research. 1950. No. 21118.

**KLEINSCHMIDT CENTENNIAL**, see Bergsland, L. Kleinschmidt centennial IV: Aleut demonstratives. 1951. No. 20623.

Hammerich, L. L. Kleinschmidt centennial I: cases Eskimo. 1951. No. 22392.

Hammerich, L. L. Kleinschmidt centennial. Eskimo Indo-European? 1951. No. 22393.

Marsh, G., & M. Swadesh. Kleinschmidt centennial: Eskimo-Aleut correspondences. 1951. No. 24191.

Rosing, O. Kleinschmidt. 1951. No. 25660.

**23289. KLEMM, ANTON.** Zur Geschichte der sog. tempora in den finnisch-ugrischen Sprachen. (Finnisch-ugrische Forschungen, 1925. Bd. 17, p. 265-79) **Title tr.:** On the history of the so-called tempora in the Finno-Ugric languages.

**Contains** remarks on Finno-Ugric verbs as having once had no tenses at all, with examples from Ostyak, Vogul, Zyryan and other languages. The development of the linguistic means to express past and future tenses is discussed.

**Copy seen:** DLC; InU.

**23290. KLEMOLA, VALTO.** Poronhoi-dosta ja sen levinneisydestä Euraasiassa. (Terra, 1929. v. 41, p. 137-63, map) **Title tr.:** On the care of reindeer and their spread throughout Europe and Asia.

**Contains** outline of the biology of reindeer and occurrence of various stocks (on the basis of literature and author's observations), particularly the two main breeds in Fennoscandia: the arctic hill (*tunturiporo*) or fjeld reindeer and the forest reindeer. The origin and distribution of this animal are discussed, also

its place in the life of regions on the northern fringe of settlement, particularly that of the nomad Lapps of Kola and Fennoscandia. The care of reindeer, its domestication, spread of its husbandry, economics of reindeer-breeding: meat production and export, dairy products, etc., are dealt with, and statistical data given on reindeer population in various regions. Bibliography (28 items). Summary in German.

**Copy seen:** DLC.

**23291. KLENOVA, M. V.** Colouring of polar sea sediments. (Akademiā nauk SSSR. Comptes rendus (Doklady), 1938. nouv. ser., v. 19, no. 8, p. 629-32)

**Analysis** of sediments leading to conclusions regarding the gas content, movements and life in the overlying waters.

**Copy seen:** DLC.

**23292. KLENOVA, M. V.** Geologičeskaja moria. Učebnoe posobie dlja geograficheskikh fakul'tetov universitetov i pedagogicheskikh institutov. Moskva, Gosudarstvennoe učebno-pedagogicheskoe izd-vo ministerstva prosveshcheniā RSFSR, 1948. 495 p., illus., maps (1 fold.), fold. chart, 2 plates. **Title tr.:** Geology of the sea. Textbook for geography faculties of universities and teachers training colleges.

**Contains** (as a comprehensive, scientific monograph) chapters on the history of marine geology; the aims of geological investigation of the sea bottom; methods of marine geology; the structure of the earth's crust in oceanic areas; bottom relief; the water cover and its influence on the sea bottom; the bottom as habitat and grave of organisms; types of sediments and facies; mechanical composition of bottom deposits; bottom charts; chemical processes of the sea bottom; mineral formation and mineral composition of the sea bottom; the stratification and dynamics of marine deposits; coastal processes; the history of the seas. The book contains numerous scattered accounts of the arctic seas (especially Barents Sea), of sea ice, icebergs and coastal ice. Bibliography (378 items).

**Copy seen:** DLC.

**23293. KLENOVA, M. V.** Sediments of the Kara Sea. (Akademiā nauk SSSR. Comptes rendus (Doklady), 1936. nouv. ser., v. 4 (13), no. 4 (108), p. 187-90, map)

**Analysis** of the mechanical composition of the sediments with a view to gaining information on the hydrological régime of the Kara Sea. **Copy seen:** DLC.

**KLENOVA, M. V.**, see also Samollovich, R. L., & others. *Geologiya Arktiki*. 1937. No. 25812.

**23294. KLEPIKOV, S. N.** Élektroprovodnyy merzlogo grunta. (Rabochiy énergetik, July 1952. v. 2, no. 7, p. 28-29, illus.) *Title tr.*: Electric heating of frozen ground.

Contains a description of a case where, due to lack of steam, a small area of the ground was electrically thawed; technical arrangements and procedure are given. Editorial note quotes cases where this method may be employed.

*Copy seen:* DLC.

**23295. KLIE, WALTER, 1880-1951.** Diagnosen neuer Harpacticoiden aus den Gewässern um Island. (Zoologischer Anzeiger, Juni 1939. Bd. 126, p. 223-26) *Title tr.*: Diagnoses of new harpacticoids from waters around Iceland.

Descriptions and localities of six new species of copepods from Greenland Sea and Denmark Strait.

*Copy seen:* DLC; DSI-M.

**23296. KLIE, WALTER, 1880-1951.** Marine Harpacticoiden von Island. (Kie-ler Meeresforschungen, 1941. Bd. 5, p. 1-44, illus.) *Title tr.*: Marine harpacticoids from Iceland.

Contains brief remarks on the subarctic waters around Iceland which have arctic currents on the northeast coast, Atlantic currents on the south and west; the copepod fauna in relation to these currents and to depth. Then follows a fully annotated and classified list of 54 species, six of which were briefly described as new in 1939, and are here fully described. Bibliography (48 items).

*Copy seen:* DGS.

**23297. KLIMENKO, G. A., and Z. M. KOZLOVA.** Termicheskiy rezhim zimovki klevra i liufserny v rafonakh neustofchivogo snegovogo pokrova Primor'ya. (Akademiya nauk SSSR. Dal'nevostochniy filial. Vladivostok. Gornotachzhaia stantsiya. Trudy, 1946. t. 5, p. 201-215, tables) *Title tr.*: Thermal régime of wintering clover and lucerne in the regions of non-permanent snow cover of the Primorye.

Contains a report on investigations regarding the minimal temperatures the studied varieties could stand without dying; the minimum snow cover necessary to avoid freezing; cold resistance of some wild Siberian forms; evaluation of some

local and imported Russian strains, etc. The studies, dealing with problems significant to arctic agriculture, were carried out at the Mountain-Taiga Station near Vladivostok. Bibliography (5 items).

*Copy seen:* DLC.

**23298. KLÛGE, GERMAN AVGUSTO-VICH.** Beiträge zur Kenntnis der Bryozoen des Weissen Meeres. (Akademiya nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1907, pub. 1908. t. 12, no. 4, p. 515-40, illus.) *Title tr.*: Contributions to the knowledge of Bryozoa of the White Sea.

Contains a systematic list of 81 bryozoans collected by the author in 1897 during his work at the Biological Station in the Solovetskiye Islands, White Sea, including descriptions of *Membranipora heterospinosa* and *Schizoporella ussuriensis* spp.; synonymy, critical notes and data on local distribution.

*Copy seen:* DLC; MH-Z.

**23299. KLÛGE, GERMAN AVGUSTO-VICH.** Die Bryozoen des Sibirischen Eismeer. Murmansk, 1929. 33 p. (Leningradskoe obshchestvo estestvoispytatelei. Murmanskaya biologicheskaya stantsiya. Raboty, t. 3, no. [4] *Title tr.*: Bryozoa of the Siberian Arctic Sea.

Contains a preliminary report on the bryozoans (moss-like, colonial animals) collected by the *Vega* (Nordenskiöld, 1878-79); *Sarja* (Toll', 1900-1902), *Taïmyr* and *Vaïgach* (Vilkitskiy, 1914-15) expeditions. 108 species are listed, nine of them new. The localities where each species was found, are given, together with a description of new forms or variations. The geographical distribution of the species is graphically summarized.

*Copy seen:* DLC.

**23300. KLÛGE, GERMAN AVGUSTO-VICH.** K nakhozhdeniyu *Rhabdopleura* v Barentsovom more. (Akademiya nauk SSSR. Murmanskaya biologicheskaya stantsiya. Dal'niye Zelentsy. Trudy, 1948. t. 1, p. 276-83, map, tables) *Title tr.*: On the occurrence of *Rhabdopleura* in the Barents Sea.

An account of the distribution of this genus of primitive chordates in the Barents Sea; discussion of its occurrence in other seas and of the morphological differences found in *Rhabdopleura normani* from different localities. Bibliography (21 items). *Copy seen:* DLC.

**23301. KLÜGE, GERMAN AVGUSTO-VICH.** Zur Kenntnis der Bryozoen von West Grönland. (Akademiā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1907, pub. 1908. t. 12, no. 4, p. 546-54) **Title tr.:** A contribution to the knowledge of Bryozoa of West Greenland.

Contains a systematic list of 76 bryozoans collected by Dr. A. E. Ortmann in Ingfield Gulf, northwest Greenland, during the Peary Relief Expedition in 1899 under Prof. Wm. Libbey; includes a description of *Schizoporella ortmanni* n. sp. **Copy seen:** DLC; MH-Z.

**23302. KLÖCKER, ALBERT.** Ein kleiner Beitrag zu dem Verzeichnisse der Lepidopteren Grönlands. (Entomologische meddelelser, 1903-05, pub. 1903. Bd. 7 (Andet række, Bd. 2), hefte 2, p. 89-90) **Title tr.:** A small contribution to the list of Lepidoptera of Greenland.

Contains a criticism of A. Bang-Haas' *Lepidoptera Groenlandica*, 1897 (see *Arctic Bibliography*, No. 1027) and a list of lepidopteres, collected by L. M. Mengel and W. E. Hughes in the vicinity of McCormick Bay, Herbert Island and Disko, West Greenland, during the Peary Expedition of the Academy of Natural Sciences of Philadelphia in 1891, and omitted from the work of Bang-Haas. **Copy seen:** DA; MH.

**23303. KLOOS, A. W., Jr.** Aanwinsten van de Nederlandse flora in 1945, 1946 en 1947. (Nederlandsche botanische vereniging, Leyden. Nederlandsch kruidkundig archief, 1950. Deel 57, p. 199-243, illus.) **Title tr.:** Additions to the Netherlands flora in 1945, 1946 and 1947.

Contains taxonomic notes on 49 plants introduced into Netherlands flora in 1945-1947, including *Limnia sibirica*, type locality Baranof Island, Alaska. **Copy seen:** MH-A.

**23304. KLUMOV, S. K.** Novye formy belukhi. (Akademiā nauk SSSR. Izvestiia. Otdelenie matematicheskikh i estestvennykh nauk. Seria biologicheskai, 1937, no. 1, p. 199-209, illus., text map) **Title tr.:** New forms of beluga.

Contains a critical study of the beluga of northern waters and description of *Delphinopterus freimani* n. sp. native to southern White Sea and considered a relict species by the author; also *D. dorofeevi* n. sp. native to Okhotsk Sea, with a comparison of these new species

with the typical forms. Summary in English. **Copy seen:** DLC; MH.

**23305. KLUMOV, S. K.** "Salka" (*Boreogadus saida* (Lepech.) i ee znachenie dlia nekotorykh zhiznennykh professov Arktiki. (Akademiā nauk SSSR. Izvestiia. Otdelenie matematicheskikh i estestvennykh nauk. Seria biologicheskai, 1937, no. 1, p. 175-88, diagrs.) **Title tr.:** *Boreogadus saida* (Lepech.) and its importance in the biological processes of the Arctic.

Contains the results of the author's investigation of a northern fish, *Boreogadus saida* (arctic cod or "salka") which is a principal source of food for a number of marine vertebrates (beluga, seal, Greenland seal, bearded seal), some birds and some terrestrial animals such as polar bear and arctic fox, etc. The economic importance of *B. saida*, its biology, ecology and distribution in northern seas of the U.S.S.R. is discussed. Summary in French. **Copy seen:** DLC; MH-Z.

**23306. KLUTSCHAK, HEINRICH W.** Als Eskimo unter den Eskimos. Eine Schilderung der Erlebnisse der Schwatka'schen Franklip-Aufsuchungs-Expedition in den Jahren 1878-80. Wien [etc.] A. Hartleben, 1881. 4 p. l., 247, [1] p. incl. front. (port.), illus., plates, maps (2 fold.) **Title tr.:** As Eskimo among the Eskimos. An account of experiences on Schwatka's Franklin Search Expedition during 1878-80.

Contains an account by the artist and cartographer of this expedition mainly of the internal life of the small group (five men), stressing those situations in which men battle the grim elements of the North with indigenous means. The base of the expedition was Camp Daly, northwest coast of Hudson Bay (63°45' N., 90° W.). The party proceeded inland in a northwesterly direction to King William Island (69° N., 97°30' W.) and back (see also Gilder's narrative, *Arctic Bibliography*, No. 5745). Klutschak deals especially with the natives of the area (Netsilik and Igulik Eskimos) describing and illustrating with numerous sketches, various features of their life, their snowhouses (p. 46-47), domestic utensils, food, dress, hunting, sledging, indoor amusements, string figures, song and drum play, etc. He depicts (p. 67-71) the party's observations and conversations in the Eskimo com-

munity regarding the relics from Franklin's ship.

**Copy seen:** DLC.

**23307. KNABEN, GUNVOR.** Studier over norske *Pyrola*-arter; foreløbig meddelelse. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1943. nr. 6, p. 1-18, illus., plates) **Title tr.:** Studies on Norwegian species of *Pyrola*; a preliminary report.

Contains a comparative study of Norwegian species of herbaceous genus *Pyrola*, including Latin and Norwegian diagnoses of *P. norvegica* n. sp., occurring "in Norvegia arctica" and its hybrids; data on taxonomy, ecology, cytology, genetics and pollination biology of *P. rotundifolia*, *P. norvegica* and *P. grandiflora*; tabulation of characteristics (p. 15) and a bibliography (35 items).

**Copy seen:** MH-Z.

**23308. KNABEN, NILS, 1897-** . *Eupithecia fennoscandia* n. sp. (Lepid., Geometridae). (Entomologisk tidskrift, 1949. Årg. 70, häft. 1-2, p. 77-81, illus.)

Contains an English description of a butterfly, *Eupithecia fennoscandia* n. sp., native to Saana, Swedish Lapland.

**Copy seen:** DA; MH-Z.

**23309. KNABEN, NILS, 1897-** . Oversikt over Norges Orthoptera. (Bergen, Norway, Museum. Aarbok; naturvidenskabelig rekke, 1943. no. 2, p. 1-43, [1]) **Title tr.:** A survey of Norwegian Orthoptera.

Contains a systematic list of 32 species of Norwegian orthopters, with synonymy, literature citations, lists of museum specimens and localities, a bibliography (42 items), and a table of distribution in Norwegian provinces; includes seven species native to northern regions. Summary in English (a separate sheet).

**Copy seen:** MH-Z.

**23310. KNAPP, DAVID G., and E. B. ROBERTS.** Geomagnetism, cosmic and prosaic. (In: Alaskan Science Conference . . . 1950. Selected papers, 1952. p. 163-69)

Contains remarks on the importance of geomagnetic research, and on Alaska as an exceptionally favorable area for such work. Contributions of early explorers and the observatory at Sitka in the Russian period are noted; investigations since 1867, the American period, are outlined; and work of the Sitka, College, and Barrow observatories described. Bibliography (13 items).

**Copy seen:** DAI; DLC.

**23311. KNIGHT, IOLA MUSFELDT.** Diseases and parasites of the muskrat. (*Ondatra zibethica*) in British Columbia. (Canadian journal of zoology, 1951. v. 29, no. 3, p. 188-214, illus., map, tables, diagrs.)

Contains the results of a study carried out by the author in 1944-47; 205 muskrat carcasses were investigated and 74 per cent were found parasitized by 13 species of internal parasites. Includes a list of about 150 parasites of muskrat reported in literature (table 1), diseases and pathologies, description of some parasites (trematodes, cestodes, nematodes) and a bibliography (55 items).

**Copy seen:** MH-Z.

**23312. KNIGHT, KENNETH L.** A taxonomic treatment of the mosquitoes of Umiat, Alaska. Bethesda, Md., 1948. 2 p. l., 12 p. plate. (U. S. Naval Medical Research Institute. Project NM 005 017, Report no. 2). Mimeographed.

Descriptions of specimens of adults (with their larval and pupal skins associated) and some wild-captured females from Umiat, 1947, with notes on world distribution, and discussion of the range of variation occurring in *Aedes* (*Ochlerotatus*) *puncator* (Kirby), *A. (O.) communis* (Degeer), and *A. (O.) nearcticus* Dyar.

**Copy seen:** DAI.

**KNIGHT, KENNETH L.,** see also Jenkins, D. W., & K. L. Knight. Ecological survey mosquitoes James Bay. 1962. No. 22951.

**23313. KNIPOVICH, IŮ. N.** Nekotorye dannye o rastvorimosti olova v prirodnykh usloviyakh. (Vserossiiskoe mineralogicheskoe obshchestvo. Zapiski, 1946. Ser. 2, chast' 75, p. 145-48) **Title tr.:** Some data concerning the solubility of tin in natural conditions.

"Chemical analyses of a sample of oxidized tin ore from northeast Yakut A.S.S.R., indicate that it is composed of stannite which has not been completely altered to cassiterite."—Geological Society of America. **Bibliography and index of Geology.** Summary in English.

**Copy seen:** DLC.

**23314. KNIPOVICH, NIKOLAI MIKHAILOVICH, 1862-1939.** Einige Worte über das Vorkommen von *Lampris pelagicus* (Gunn.) an den nördlichen Küsten Russlands. (Akademika nauk SSSR. Zoologicheskii muzej. Ezhegodnik

1900. T. 5, no. 1-2, p. 244-45) **Title tr.:** A few words on the occurrence of *Lampris pelagicus* (Gunn.) on the northern coast of Russia.

\* Contains some additional information to the paper of E. Lönnberg, *Lampris pelagicus*, 1900, q. v., on the distribution of this fish in Russian northern waters, found also in Kandalaksha Bay, White Sea. **Copy seen:** DLC; MH-Z.

**23315. KNIPOVICH, NIKOLAI MIKHAILOVICH, 1862-1939, and others.** Èkspeditsiia dlia nauchno-promyslovyykh issledovaniy u beregov Murmana. Tom 1 [-2, chast' 1]. S. Peterburg, T-vo Khudozhestvennoi Pechati, 1902-1904. v. 1, pt. 1-3; v. 2, p. 1: 605, 112, p. illus., plates, diagrs., maps, tables. Further parts of v. 2 evidently were not published) **Other authors:** K. P. Iagodovskii and N. S. Zhikharev. **Title tr.:** Expedition for scientific and economic investigations on the Murman coast.

Contains narrative by the expedition's director, of the early phases of its extensive and long-term (1898-1908) oceanographic investigations with the *Andrei Pervozvannyi* during 1898-1900 (v. 1), and during 1901 (v. 2, pt. 1). In v. 1, pt. 1 (p. 1-145) organization of the exploratory expedition is described, its work, list of stations, etc. In pt. 2 (p. 147-396) the equipment, boats, instruments and methods of investigation are outlined; the steamer-research vessel *Andrei Pervozvannyi* is described; also the auxiliary and fishing vessels, and their work till the end of 1899; a list of stations is included. Pt. 3 (p. 397-538) chronicles the activities of the *Andrei Pervozvannyi* during 1900, with list of stations, and (p. 539-44) maps.

Vol. 2, pt. 1 contains an account of the research work of the *Andrei Pervozvannyi* in 1901, with list of stations and explanations to the large hydrographic maps appended. The expedition's work and the report cover a wide field, including: climatology, hydrography and oceanography, marine biology and fisheries. The fishing vessels attached to the expedition were to try out new methods and fishing equipment in addition to serving as auxiliaries. The scientific results (publications) of this expedition are surveyed by L. L. Breilfus (*Arctic Bibliography*, No. 2120). Summary in German (for v. 1 only) p. 545-605.

**Copy seen:** CtY.

**23316. KNIPOVICH, NIKOLAI MIKHAILOVICH, 1862-1939.** K voprosu o zoogeograficheskikh zonakh Bëlogo morya. (Vëstnik estestvoznaniia, 1891. t. 2, no. 6-7, p. 201-206) **Title tr.:** On zoogeographical zones of the White Sea.

Contains a discussion of three zoogeographical zones of the White Sea established by the author, a comparison with subdivisions of other naturalists (S. M. Gertsenshtein and K. I. Khvorostanskii) and with similar zones of the Barents Sea; marine species typical for each zone are listed. **Copy seen:** MH-Z.

**23317. KNIPOVICH, NIKOLAI MIKHAILOVICH, 1862-1939.** Nachtrag zum "Verzeichniss der Fische des Weissen und Murmanschen Meeres." (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1898. T. 3, no. 1, p. 1-11) **Title tr.:** A supplement to "Verzeichniss der Fische des Weissen und Murmanschen Meeres."

Contains a supplemental list of 16 fishes occurring in the White and Murman Seas, a table of 93 species known from the same seas and their distribution in Varanger Fiord and the Murman coastal waters. For the work which this paper supplements, see the author's *Verzeichniss* below. **Copy seen:** DLC; MH-Z.

**23318. KNIPOVICH, NIKOLAI MIKHAILOVICH, 1862-1939.** Neue Exemplare von *Lycodes maris-albi* Knipowitsch. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1911. t. 16, no. 1, p. 155-57) **Title tr.:** New specimens of *Lycodes maris-albi* Knipowitsch.

Contains measurements of two specimens of eelpout, *Lycodes maris-albi* (in the collection of the Zoological Museum of the Academy of Sciences) a blenny-like fish native to the Dvina and Mezen Gulfs of the White Sea; this species was described as new by the author in 1906 from a single specimen (see *Arctic Bibliography* No. 8880).

**Copy seen:** DLC; MH-Z.

**23319. KNIPOVICH, NIKOLAI MIKHAILOVICH, 1862-1939.** Nêskol'ko slov otnositel'no fauny Dolgoy guby Solovetskago ostrova i fiziko-geograficheskikh eia uslovii. (Vëstnik estestvoznaniia, 1893. god 4, p. 44-57) **Title tr.:** Brief note on the fauna and physico-

geographic conditions in Dolgaya Guba of Solovetskiy Island.

Contains list of the littoral and sublittoral fauna of a bay in the White Sea: molluscs, echinoderms, hydroids, crustaceans, worms, etc. which exhibit both arctic and boreal characteristics; data on vertical distribution; discussion of the water temperature and probability of *Yoldia arctica* being a relict from the ice age. Summary in German.

**Copy seen:** DLC.

**23320. KNIPOVICH, NIKOLAI MI-KHAĬLOVICH, 1862-1939.** O predpolagaemoi l'etom 1896 g. èkskursii na Novuiu Zeml'u. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1896. t. 1, p. i-vi) **Title tr.:** On the expedition to Novaya Zemlya planned for the summer of 1896.

Contains a discussion of the Academy of Sciences' projected scientific expedition to Novaya Zemlya with historical notes on the zoological exploration of this island, its physico-geographical characteristics; aims of the expedition and methods of work; additional note is given on p. xvii.

**Copy seen:** DLC; MH-Z.

**23321. KNIPOVICH, NIKOLAI MI-KHAĬLOVICH, 1862-1939.** Über das Vorkommen von *Chirolophis galerita* (L.) s. *Carelophus ascanii* (Walb.) an der Murmanküste. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1911. t. 16, no. 1, p. 152-54) **Title tr.:** On the occurrence of *Chirolophis galerita* (L.) s. *Carelophus ascanii* (Walb.) on the Murman coast.

Contains measurements and critical notes on two specimens of *Chirolophis galerita*, a rare fish caught in the Kola Bay in 1909 and in Motovskiy Bay in 1910.

**Copy seen:** DLC; MH-Z.

**23322. KNIPOVICH, NIKOLAI MI-KHAĬLOVICH, 1862-1939.** Über das Vorkommen von *Mytilus edulis* L. in tiefen Teilen des Weissen Meeres. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1905. ser. 2, chast' 43, vyp. 2, p. 271-77) **Title tr.:** On the occurrence of *Mytilus edulis* L. in deep waters of the White Sea.

Contains a report of the find of a mollusc, *Mytilus edulis*, a common representative of the littoral and warm water faunas in the deep and cold waters of the White Sea; with observations on the temperature and environmental con-

ditions, and a discussion of the vertical distribution of this mollusc.

**Copy seen:** MH-Z.

**23323. KNIPOVICH, NIKOLAI MI-KHAĬLOVICH, 1862-1939.** Verzeichnis der Fische des Weissen und Murmanschen Meeres. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1897. t. 2, no. 2, p. 144-58) **Title tr.:** A list of the fishes of the White and Murmansk Seas.

Contains a systematic list of 83 fishes collected mainly by the author in the White and Barents Seas and Murman coastal waters, with brief synonymy and data on distribution; economic aspects of fishery in these waters are discussed.

**Copy seen:** DLC; MH-Z.

**23324. KNIPOVICH, NIKOLAI MI-KHAĬLOVICH, 1862-1939.** Zoologicheskii izsl'edovaniia na ledokol'e "Erma" l'etom 1901 goda. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1901. t. 6, p. i-xx, text map) **Title tr.:** Zoological investigations on the icebreaker *Erma* in the summer of 1901.

Contains a list of 107 stations in the Barents Sea between the Kola Peninsula and Franz Josef Land, on which dredging or trawling was done, and a survey, arranged by stations, of the zoological material collected in 1901.

**Copy seen:** DLC; MH-Z.

**23325. KNIPOVICH, NIKOLAI MI-KHAĬLOVICH, 1862-1939.** Zoologische Ergebnisse der russischen Expeditionen nach Spitzbergen. Fische. Nachtrag. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1903. t. 8, no. 2, p. 144-56) **Title tr.:** Zoological results of the Russian expeditions to Spitzbergen. Fishes. Supplement.

Contains descriptive notes and data on distribution of ten species and varieties of fishes collected in Svalbard waters by M. Mikhailovskii and A. Volkovich in 1901, and a table of 40 fishes known from that region, p. 155; published as a supplement to the author's paper of the same title, issued in 1901 (see *Arctic Bibliography*, No. 8878).

**Copy seen:** DLC; MH-Z.

**23326. KNIPOVICH, NIKOLAI MI-KHAĬLOVICH, 1862-1939.** Zoologische Ergebnisse der russischen Expeditionen nach Spitzbergen. Mollusca und Brachiopoda. IV. Nachtrag. (Akademiia

nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1903. t. 8, no. 2, p. 133-43) **Title tr.:** Zoological results of the Russian Expeditions to Spitsbergen. Mollusca and Brachiopoda, IV. Supplement.

Contains some additions to the molluscan fauna of the post-Pliocene epoch based mostly on the work of Scandinavian paleontologists (Nathorst, Loven, etc.) and on collections of fossil molluscs in Scandinavian museums, with lists of fossil species from various localities of Spitsbergen. This paper supplements the author's work of the same title (pt. I-III) published in 1902-03 (see *Arctic Bibliography*, No. 8876-8877).

**Copy seen:** DLC; MH-Z.

**23327. KNIPOVICH, NIKOLAI MIKHAILOVICH, 1862-1939.** Zur Kenntniss der geologischen Geschichte der Fauna des Weissen und des Murman-Meeres. (Post-pliocene Mollusken und Brachiopoden). (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1900. seria 2, chast' 38, p. 1-169, fold. map, fold. diagr.) **Title tr.:** On the geologic history of the fauna of White and Murman Seas. (Post-Pliocene molluscs and brachiopods.)

Based on collections of recent material made in 1898-99, by the Expedition for Scientific and Economic Investigation of the Murman Coast, and on post-Pliocene collections in the White Sea region, Novaya Zemlya and the Murman coast. Discussion of the water temperature and recent molluscan and brachiopod faunas of the southern Barents and White Seas (p. 4-30); the localities and post-Pliocene collections of (a) Rybachiy Peninsula, Port Vladimir, Kildin Island, the Kola Bay region, the shores of Notozero (lake), and elsewhere along the north coast of Kola Peninsula (p. 31-48); (b) the White Sea coasts (p. 48-105); (c) the Mezen, Cheshskaya and Pechora Bay regions (p. 105-140); and (d) Novaya Zemlya (p. 141-48). Remarks on the 105 species of post-Pliocene fauna, relating them to interglacial, late glacial, and post-glacial subsidence in northern European Russia, and discussing paleoclimatic changes of the hydrologic régimes of the bordering seas.

For remarks criticizing certain points in this paper, see W. Ramsay's *Ueber die Einwanderung von Yoldia arctica*, 1900.

**Copy seen:** DLC.

**23328. KNIPOVICH, NIKOLAI MIKHAILOVICH, 1862-1939.** Zur Kenntniss der geologischen Klimate. Vorläufige Mittheilungen. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1903. Ser. 2, chast' 40, p. 267-303, fold. chart) **Title tr.:** Concerning geological climate.

Based on hydrologic and biologic observations made during the author's expedition May 1898-Aug. 1901 cruising the Murman, Barents and White Seas in the steamer *Andrei Pervozvannyi*. Exposition of the current system in these seas (including the Gulf Stream offshoots): North Cape Current, Murman Current, Kanin Current and Spitsbergen-Gulf Stream Current; discussion of the manifold relationships between bottom topography, currents, climate, temperature-salinity, and marine fauna (boreal boreo-arctic and arctic types); and remarks on the connection between these complex physico-geographic and biologic factors and our knowledge of Quaternary climate, to be shown by further research. A hydrologic chart of the European Arctic Ocean, scale 1:4,000,000, is included.

**Copy seen:** DGS.

**KNIPOVICH, NIKOLAI MIKHAILOVICH, 1862-1939,** see also *Sbornik N. M. Knipovicha*. 1939. No. 25902.

**23329. KNOBLAUCH, FREDERICK J.** Medical department problems in cold weather operations. (Military surgeon, Apr. 1948. v. 102, p. 283-85)

Contains remarks on early location and evacuation of casualties; first aid and transportation of wounded; sanitation, waste disposal and water supply; shelter and heating; medical supplies, etc., as presenting peculiar difficulties in military operations in the Arctic.

**Copy seen:** DLC.

**23330. KNOX, JOHN ARMOY, 1851-1906, and J. G. PRATT.** All about the Klondike gold mines. New York, The Miners' News Pub. Co., 1897. 59 p. map.

Contains an account of the geology of the area, the discovery of gold and the rushes; practical suggestions for prospectors on travel, perils, supplies; Dawson and its conditions of living; laws and regulations.

**Copy seen:** DLC.

**23331. KNUTH, EIGIL, Greve, 1903- .** The Danish expedition to Peary Land, 1947-49. (Geographical journal, London,

Mar. 1952. v. 118, no. 1, p. 1-11, map, 7 photos.)

Contains text of a paper read before the Royal Geographical Society, on the expedition to Jørgen Brønlands Fjord (82°10' N., 31°10' W.), carried out and maintained by air. Consecutive sections deal with earlier expeditions to the area; the establishment of a base for the air transport at the head of Young Sound, north of Clavering Ø in lat. 74° N., and reconnaissance flights (summer 1947); establishment of the year-round station, laboratories, quarters, etc., at Jørgen Brønlands Fjord (1948); geology and climate of the area; zoological and botanical observations; early Eskimo settlements in the area, including those of the Dorset and Thule cultures; radio contact with the world; return trips. Discussion of the paper is appended. **Copy seen:** DLC.

**23332. KNUTH, EIGIL, Greve, 1903- .** Dansk Pearyland Expedition; sidste års meteorologi og topografisk overblik. (Geografisk tidsskrift, København, 1950. Bd. 50, p. 2-19, illus., 5 maps (2 fold.)) **Title tr.:** Danish Peary Land Expedition; meteorology of the last year, and topographic survey.

Contains a review (by the leader) of the activities of the expedition during four summers and two winters. The meteorological conditions during the last winter are described, affording a comparison with those of the previous winter, described by B. Frstrup in *Peary Land, en foreløbig redegørelse*, 1950, q. v. A total of 50 flights to Peary Land were carried out, delivering 70 tons of equipment to Jørgen Brønlands Fjord, the expedition's base. The wind conditions were more favorable during the second winter than during the first, but the temperatures were lower. It is uncertain which year came the closer to the normal over longer periods, probably 1948-49. Mean temperatures and extremes are given for each month from Aug. 1948 to July 1950, also some notes on the break-up on Jørgen Brønlands Fjord. Topography of the fiord area, as mapped by the expedition members, indicates that the older maps are inaccurate, e. g. the inland ice does not spread with a broad front over the region south of Independence Fjord, but rather sends a narrow tongue down to the sea. A new lake, over 35 miles long, was discovered. Six photographs and five maps of Peary Land are included.

**Copy seen:** CaMAI; DGS.

**23333. KNUTH, EIGIL, Greve, 1903- .** Fridtjof Nansen og Knud Rasmussen. En Slaegtsstudie. København, Gyldendal, 1948. 48 p., illus. (19 ports.), 3 facsims. **Title tr.:** Fridtjof Nansen and Knud Rasmussen. A genealogical study. **Copy seen:** DLC.

**23334. KNUTH, EIGIL, Greve, 1903- .** The northernmost country in the world. (Geographical magazine, Sept. 1951. v. 24, p. 218-29, incl. 5 p. of illus., map)

Account for the general reader, of the Danish Peary Land Expedition of 1947-50, established by airlift; the two-year (1948-50) wintering of an eight-man party under the author and Ebbe Munck in a prefabricated house on Jørgen Brønlands Fjord; the region's physical features, animals and plants, climate, and archeological finds of Cape Dorset and Thule cultures. **Copy seen:** DLC.

**23335. KNUTH, EIGIL, Greve, 1903- .** An outline of the archaeology of Peary Land. (Arctic, Mar. 1952. v. 5, no. 1, p. 17-33, illus., diagrs. maps)

Contains an account of observations and excavations made at Jørgen Brønlands Fjord and other localities during the Danish Peary Land Expedition 1947-50, led by the author. The area is described and characterized as "a transit region for Eskimo migrations from arctic North America to northern East Greenland." Remnants (especially the umiak) of a neo-Eskimo Whale Hunting Culture found at Herlufsholm (ca. 85°35' N., 20°15' W.) are discussed and related to finds in Alaska. Belonging to the Dorset Culture, 31 sites with dwellings, tent rings, fire places, meat caches and fox traps were excavated. Numerous flint and bone artifacts are described, illustrated, and correlated with finds from Norton Sound, and the Brooks Range in Alaska, and from southwestern Labrador. The tent sites (stone rings) are closely analyzed and from them conclusions inferred as to the extent, economy, and life of that culture. The range of Dorset known localities is greatly extended by this expedition. More information "on this strange old Eskimo culture . . . is needed for further investigations on the wide subject of the origin of the whole Eskimo culture." Bibliography (29 items). **Copy seen:** CaMAI; DLC.

**23336. KNUTH, EIGIL, Greve, 1903- .** Sommerrejsen til Pearyland. København, Gyldendalske boghandel, 1948

66 p. **Title tr.:** Summer trip to Peary Land.

Popular account by the leader of the Danish Peary Land Expedition 1947-50: its organization, first summer's reconnaissance trip in 1947, the voyage on the *Godthaab* to Young Sund (74°16' N.) East Greenland, establishment of the southern base there, flight to Jørgen Brønlunds Fjord (82°11' N. off Independence Fjord) site of the expedition's northern base; survey of the adjacent region with a view to planning the research program for the 1948-49 wintering party; return to the southern base. Includes brief comment on activities of members of the party, on the Catalina plane, ice, terrain and weather conditions.

**Copy seen:** DLC.

**KNUTH, EIGEL, Greve, 1903-**, see also *Polar record*. Danish Pearyland exped. 1948-50. 1952. No. 25140.

**KNUTH, EIGIL, Greve, 1903-**, see also Winther, P. C., & others. Prelim. account Danish Pearyland Exped. 1950. No. 27458.

**23337. KOBZEV, A. Zapol'âr'e.** ((In: *Ėntsfiklopedicheskiĭ slovar' voennoi meditsiny*, ed. E. I. Smirnov. Moskva, 1947. t. 2, col. 758-78, illus., diagrs., map) **Title tr.:** Polar territories. (In: *Encyclopedic dictionary of war medicine*).

Contains remarks on the extent of the area (north of 66°30' N. lat.) and outline (in brief) of World War I, the Revolution, Intervention and liberation in the area; (in more detail): the organization of military medical services during that period; World War II; physical geography and its significance for military medical operations (relief, geology and soil, lakes and rivers, swamps, peat bogs, etc.) peat, its composition and use; climate (temperatures, precipitation, winds and storms, etc.), local fuels; huts and tents; roads; diseases in some army units in the area; special hygiene and clothing requirements for this area; personal hygiene and cleanliness; evacuation of wounded military personnel; equipment of medical and sanitary units, etc. The article is based on Russian experience in the two world wars and consequently relates only to the European Arctic. Bibliography (about 50 items).

**Copy seen:** DSG.

**23338. KOBZEV, A. Zimnie deĭstviâ volsk.** (In: *Ėntsfiklopedicheskiĭ slovar' voennoi meditsiny*, ed. E. I. Smirnov.

Moskva, 1947. t. 2, col. 803-814, illus.)

**Title tr.:** Army activities in wintertime. (In: *Encyclopedic dictionary of war medicine*).

Contains an historical account of largely Russian winter campaigns, including those of World War II; discussion of the effect of winter on the tactical properties of terrain, on roads, light conditions, etc., the effect of the snow cover; special requirements for winter campaigns; effect of environmental conditions on armies and men; diseases prevalent during the Russo-Finnish war (1939-40). Military medical work during winter actions is described: prevention of frostbite, first aid, night work, etc.; also search and transportation of wounded (with illus. of sleds, skis, toboggans, etc.). Special clothes for sick and wounded; emergency and temporary housing (with illus. of shelters, huts, snowhouses, etc.); care of medicines and instruments, etc. Bibliography (about 20 items).

**Copy seen:** DSG.

**23339. KOCH, H. H. Grønlandskommissionen og dens forslag.** (In: Birket-Smith, K., and others. *Grønlands bogen*, 1950. v. 2, p. 291-320, incl. 7 p. of illus.) **Title tr.:** Greenland Commission and its program.

Based on the work of the Greenland Commission (Nov. 29, 1948-Feb. 28, 1950) of which the author, permanent under-secretary of the Labor and Social Ministry of the Danish government, was chairman, also on his lecture to members of the associations Det grønlandske Selskab, and Nordisk administrativ Forbund og Juridisk Forening, Mar. 31, 1950. An historical sketch is given of the Commission, appointed to study conditions resulting from fundamental changes in Greenlanders' source of livelihood and from the war, and an outline of its recommendations: in local (district) and central (Godthaab) administration. Specific suggestions are made on problems of justice, health, education, church, industry and commerce.

**Copy seen:** DSI-M.

**KOCH, LAUGE, 1892-▼**, see *Polar record*. Dr. L. Koch's geological expedition E. Greenland 1949. 1951. No. 25144.

**KOCH, LAUGE, 1892-**, see also *Polar record*. Dr. L. Koch's geological expedition E. Greenland 1950. 1952. No. 25145.

**KOCHETKOV, M.**, see Koncha, V., & others. Khibinogorskafä obogatitel'naä fabrika. 1933. No. 23378.

**KÖBENHAVN. NATIONAL MUSEET**, see Bergsøe, P. Where Eskimo get copper? 1941. No. 20626.

**KÖBENHAVN. NATIONAL MUSEET**, see also Birket-Smith, K. Early collections Pacific Eskimo. 1941. No. 20695.

**23340. KOEGEL, LUDWIG.** Erdfließen. (Umschau, März 1949. Jahrg. 49, p. 177-80, illus.) *Title tr.*: Solifluction.

Brief exposition of the macroforms of solifluction phenomena of the arctic regions, the polygonal soil, stone rings, stripes and nets, and the microforms found in other regions where frost is of shorter duration. *Copy seen:* DA.

**23341. KOEHLER, RENÉ, 1860-** Échinodermes recueillis dans les mers arctiques par la Mission arctique française, commandée par M. Bénard. (Paris. Muséum national d'histoire naturelle. Bulletin, 1909. t. 15, p. 121-23) *Title tr.*: Echinoderms collected in arctic seas by the French arctic expedition commanded by M. Benard.

Sixteen species are listed, including sea stars, brittle stars and sea urchins, taken in waters from the mouth of the White Sea to Novaya Zemlya (Barents Sea) waters. *Copy seen:* DLC.

**23342. KOEHLER, RENÉ, 1860-** Échinodermes recueillis par le *Pourquoi-Pas?* dans les mers arctiques, en 1912. (Astéris, Ophiures, Échinides). (Paris. Muséum national d'histoire naturelle. Bulletin, 1913. t. 19, p. 27-31) *Title tr.*: Echinoderms collected by the *Pourquoi-Pas?* in arctic seas, 1912.

Lists for six stations showing location, depth, and type of bottom, including one south of Jan Mayen, one north of Iceland, and one in Denmark Strait; notes on five of the species of special interest, of which three occur in arctic waters. *Copy seen:* DSI-M.

**23343. KÖLZER, JOSEPH.** Der derzeitige Stand der Eiszeitforschung. (Polarforschung, 1951. Bd. 3, Jahrg. 21, p. 44-49) *Title tr.*: Present state of research on the ice age.

Analysis of 20th century (especially its fifth decade) publications on various aspects of the ice age, using Middle Europe as a starting point. Bibliography (30 items). *Copy seen:* DGS.

**23344. KOENIG, ALEXANDER.** Avifauna Spitzbergensis. Forschungsreisen nach der Bären-Insel und dem Spitzbergen-Archipel, mit ihren faunistischen und floristischen Ergebnissen. Bonn, 1911. x p., 1 l., 294 p., illus., 22+33 plates, fold. map (in envelope rear cover) *Title tr.*: Birds of Spitzbergen. Research voyages to Bear Island and the Spitzbergen archipelago, with their faunal and floral results.

Pt. 1, by A. Koenig, is an account of his tourist trip in 1905 to Spitzbergen, and his special research expeditions of 1907 and 1908 on chartered vessels, to Bear Island, in Svalbard waters and along the west and northwest coasts of West Spitzbergen.

Pt. 2, edited by O. Le Roi, contains an ornithologic bibliography (148 items) of the Svalbard region, lists of birds known to Bear Island and West Spitzbergen, full field and biological notes on 58 species of birds collected in 1907-1908; and lists with localities of the land arthropods and flowering plants and ferns collected (identified by several other scientists). Map of Barents Sea, scale 1:2,000,000, shows routes, 1907-1908. *Copy seen:* DLC.

**23345. KÖNIG, F. H.** Bluttemperatur und Wärmeregulation. (Pflügers Archiv für die gesamte Physiologie, 1943. Bd. 246. Heft 5, p. 693-708, 5 fig.) *Title tr.*: Blood temperature and heat regulation.

Contains a study on four healthy male subjects, aged 26-35 years. Cooling the hand in cold water reduced perspiration, including insensible perspiration; cooling the face with ice caused an increase of 20 per cent in metabolism, no area of the body showing such a strong reaction; if medium work preceded, no reaction was elicited by cooling the face, but in cool or warm surroundings the reaction does appear; by drinking cold water, it is possible to reduce the blood temperature, such a reduction causing an increase of metabolism elicited by cold-stimulation of the face. Bibliography (26 items). *Copy seen:* DLC.

**23346. KÖNIG, HERBERT.** Bemerkungen über die japanische Beeinflussungen der Eskimos. (Anthropos, Ephemeris, 1933. Bd. 28, p. 192-93) *Title tr.*: Remarks about Japanese influence on the Eskimos.

Contains discussion of a hypothesis

offered by H. P. Steensby in his *Anthropogeographical study of the origin of the Eskimo culture*, 1916, p. 208 (*Arctic Bibliography*, No. 16732). Steensby's suggestion that Japanese influence on Greenland Eskimo culture in earlier times is a possibility, König concludes to be unconvincing.

**Copy seen:** DLC; InU.

**23347. KÖNIG, HERBERT.** Die Eskimo-Mundarten von Nord- und Nordost-Labrador. (*Anthropos*, Ephemeris, 1937. Bd. 32, p. 595-632) **Title tr.:** Eskimo dialects in northern and northeastern Labrador.

Contains a linguistic description of these dialects, including phonology, morphology, syntax, also writing and pronunciation, quantity and accentuation, changes of vowels and consonants, etc. The author made an expedition to northern Labrador in 1927-28 (no further details); and spent three months among a little-investigated tribe of Eskimos who, living at Wakeham Bay on the southside of the Hudson Strait, call themselves Tarranmiut (*i. e.* inhabitants of the shadow-side). Their culture and language have some similarities with those of eastern Labrador Eskimos, so-called Seqñenmiut (*i. e.* inhabitants of the sun-side), although there are many differences. The author makes frequent comparisons of the northern and eastern dialects in his study.

**Copy seen:** DSI; InU.

**23348. KOENIG, LAWRENCE S., and others.** Arctic ice islands. (*Arctic*, July 1952. v. 5, no. 2, p. 67-103, illus., maps) **Other authors:** K. R. Greenaway, Moira Dunbar, and G. F. Hattersley-Smyth.

Contains an account of the discovery of two groups of "ice islands" evidently originating on the north coast of Ellesmere Island. Their size, shape and surface structure, as well as tracking the drift of the large ice islands by planes and radar, are discussed by Major Koenig (from U. S. A. F. "Ptarmigan" and other flights), and by Squadron-Leader Greenaway (from Canadian flights and air photographs). Extensive documentation is presented (by Miss Dunbar) of 19th-20th century explorers' references to, and observations of such "islands". The probability of their origin from shelf ice and the character of the ice shelf of northern Ellesmere is presented (by Mr.

Hattersley-Smith). Special consideration is given to three very large islands (identified as T<sub>1</sub> T<sub>2</sub> T<sub>3</sub>), their discovery, positions and movement, description, seasonal changes, etc.; with additional data on smaller "islands," arranged according to the areas of their presence. From the air the "floating islands" are easily distinguishable from pack ice by their large size, homogenous appearance, very regular, characteristically patterned surface, and a fixed shape suggesting great thickness and hardness. Bibliography (about 40 items).

**Copy seen:** CaMAI; DLC.

**KOENIG, LAWRENCE S.,** *see also* Fletcher, J. O., & L. S. Koenig. Floating ice islands. 1951. No. 21838.

**23349. KÖPPEN, WLADIMIR.** Die Bora im nördlichen Skandinavien. (*Annalen der Hydrographie und maritimen Meteorologie*, 1923. v. 51, no. 4, p. 97-99) **Title tr.:** Bora in northern Scandinavia.

"Explanation and graphic presentation of the bora phenomenon in general, and description of the bora at Balsfjord near Tromsø."—*Meteorological abstracts and bibliography*, July 1951. v. 2, no. 7, p. 602.

**Copy seen:** DLC.

**23350. KÖPPEN, WLADIMIR, and A. L. WEGENER.** Die Klimate der geologischen Vorzeit. Berlin, Gebr. Borntraeger, 1924. 255 p. plate.

"Authors reconstruct positions of continents to each other and poles, assuming a zonal distribution of climate similar to the present, in various geological periods from Devonian to Quaternary, using glacial deposits, coal beds, desert deposits and remains of plants and animals. Late Paleozoic glaciation is attributed to aggregation of South America, Africa, India and Australia round the South Pole. In Quaternary the pole wandered from Alaska in Miocene (!) through the Arctic Archipelago to Greenland (Mindel to Wurm) and so to present position. Glacials and interglacials are attributed to changes of eccentricity etc."—*Meteorological abstracts and bibliography*, July 1950. v. 1, no. 7, p. 452.

**Copy seen:** DWB.

**KOERING, URSULA,** *see* O'Neill, H. Picture story Alaska. 1951. No. 24848.

**23351. KOHLSCHÜTTER, ERNST, 1870-1942.** Die Lage der Station "Eismitte". (Petermanns geographische Mitteilungen, 1940. Bd. 86, p. 406-409,

diagns.) **Title tr.:** Location of the station "Eismitte".

**Contains** note on the exact geographical position of the icecap station established by the German Greenland expedition of Alfred Wegener in 1929-31.

**Copy seen:** DLC; InU.

**23352. KOĖRANSKIĬ, B. B.** K etiopatogenezu prostudy; vlianiie mestnogo okhlazhdeniia na reaktsiiu sosudov kozhi stopy. (Klinicheskaiia meditsina, Oct. 1948. t. 26, no. 10, p. 76-82, 3 fig.) **Title tr.:** On the etio-pathogenesis of chill; the influence of local cooling on the reaction of the skin vessels of the foot.

**Contains** a report on observations made on young, normal men and women, whose lower and/or upper extremity was chilled in water of 5° and 10° C. Skin temperatures of the toe and vessel contractions were studied; also the effect of this cooling on the temperature (and hence the circulation) of the hand; of the nasal mucosa in cold-acclimatized and partly- or non-acclimatized subjects; and of the expired air. The effects of cold feet on the mucosa of the upper section of the respiratory system as regards penetration of pathogens of influenza, pneumonia, etc., are discussed. Bibliography (10 items).

**Copy seen:** DLC.

**23353. KOĖRANSKIĬ, B. B.** Ob izgotovlenii spetsial'noi odezhdy, zashchishchaeushchei ot pereokhlazhdeniia i peregreva. (Gigiena i sanitariia, 1949. god 14, no. 3, p. 15-19) **Title tr.:** Designing special clothing, protective against overcooling and overheating.

**Contains** a general discussion based on various sources and on the experience of World War II. Substituting for fur, (1) a less expensive "artificial fur," (2) several layers of textile (especially "large-mesh net" undershirts) and knitted wear, is discussed. Protection against wind and moisture are also considered; as material protective against moisture, a substitute for kapok is suggested in the fiber of the cattail *Typha latifolia*, which is common in Russia; clothing protective against heat receives but minor treatment in this paper.

**Copy seen:** DLC.

**23354. KOIVISTO, T.** Kullan tutkimis- ja kaivutavoista Itä-Siperiassa. (Teknillinen aikakauslehti, 1924, v. 14, p. 425-37) **Title tr.:** Prospecting and methods of gold mining in eastern Siberia.

**Contains** some data on placer mining in permafrost areas and on the use of frozen soil and water as aids in placer mining and prospecting (p. 430-31). The author recounts his 15 years' experience with various mining companies in Siberia, compares types of mining machinery in use there, with comment that American-made machinery was found the most efficient.

**Copy seen:** DLC.

**23355. KOKKO, YRJÖ, 1903-** . Neljän tuulen tie. Helsinki, Werner Söderström osakeyhtiö, 1947. 425 p., plates. **Title tr.:** The road of the four winds.

**Account** of the life and customs of the Lapps of northern Finland, Sweden, Norway and the Kola Peninsula, with photographic illustrations depicting dwellings, costume, activities connected with reindeer husbandry, etc.

**Copy seen:** NN; OCL.

**23356. KOKKONEN, PEKKA AARON, 1887-** . Beobachtungen über den Bodenfrost des Winters 1941-42. Helsinki, 1942. 11 p., illus., tables. (Acta forestalia fennica, 50:22) **Title tr.:** Observations on frozen ground during the winter of 1941-42.

**The author** observed in Apr.-May, that the bottom of drainage ditches in fields near his home appeared almost as if they had been lowered 22-25 cm. Excavation in the soil near the side of the drainage ditch showed the freezing of the soil in cross section (the size variations of the soil particles from surface down to the clay underlying the frozen ground are described in relation to their depth). An almost pure (same volume weight) ice layer 22-25 cm. thick was encountered 43 cm. from the soil surface. The capillarity, weather, effect on plants, damage, and thawing of the soil are briefly described. Summary in Finnish.

**Copy seen:** DLC.

**23357. KOKKONEN, PEKKA AARON, 1887-** . Havaintoja roudan aiheuttaman maanpinnan ja routakerroksessa olevien esineiden kohoamisesta. (Teknillinen aikakauslehti, 1930. v. 20, p. 731-39, illus., diagr.) **Title tr.:** Observations on freezing causing the ground surface and frost layers to expand.

**Observations** were made in Finland during the winters of 1928-1929 and 1929-1930 to determine how much the soil rose due to frost action. There were 80 observation points the first

winter and 60 observation points the second winter. One hundred and eight stakes, driven from 5-60 cm. into the soil, were used in a test on one plot near Helsinki. The amount of rise of the stakes was recorded by a Zeiss instrument. Snow cover, frost depth, temperature, and the variation in the amounts of rise of the stakes are discussed briefly. Test results indicated that: (1) the surface rise was 10-16 per cent of the depth of the frost in grassy ground and 12-20 per cent of the frost depth in bare ground; (2) the deeper stakes rose from 2-5 times higher than the ground surface unless the stake had been driven beneath the ice layer; (3) the expansion of the earth caused the roots of plants to stretch 10-20 per cent; and (4) the frost was capable of lifting an entire plant out of the soil."—SIPRE.

**Copy seen:** DLC.

**23358. KOKKONEN, PEKKA AARON, 1887- .** Havaintoja viime talven roudata ja sen sulamisesta sekä sen vaikutuksesta viljelykseen. (Suomen maataloustieteellinen seura. Aikakauskirja, 1942. v. 14, no. 3-4, p. 80-110, illus., tables, diags.) **Title tr.:** Observations on last winter's ground frost and on its melting and effect on cultivation.

"Ground frost ranging in thickness from 1 m. to 2.2 m. was observed in grain fields in northern Finland during the spring of 1941. Dense, striped layers of ice were found in fine or medium grained sandy soils. Heterogeneous, scattered ground ice occurred in silt and clay soils. Ground water was located at 0.7 m. to 3 m. from the soil surface. The fields were free from ground frost to the depth of 40 cm. and ready for plowing at the end of April. Ground frost had thawed completely by the end of June in sandy soils. Thick ground frost in clay soils at the depth of 1.25 m. in the beginning of August indicated that thawing is slower in clay soils and may persist throughout the summer. The soil surface was raised 33-36 percent of the thickness of the ground frost during the thawing process. Excessive ground frost crumbled and softened the sides of the drainage canals reducing the width of the drainage canals by 6-16 cm. Temperature measurements of the soil indicated that the soil temperatures in tilled soils were 3-4° C. lower than normal during summers due to the thick ground frost. Cold soils and excess moisture in the fields from slowly melting

ground frost resulted in inferior crops of grain and potatoes."—SIPRE. Summary in German. **Copy seen:** DLC.

**23359. KOKKONEN, PEKKA AARON, 1887- .** Roudan rakenteesta ja siihen vaikuttavista seikoista. (Teknillinen aikakauslehti, 1929. v. 19, no. 3, p. 199-206, illus., diag.) **Title tr.:** The structure of ground frost and factors affecting it.

"Ice crystal formations in frozen ground are classed as surface ice attributable to poor drainage conditions in the soil (ylännejäätiköt), vertical ice wedges ranging in thickness from 2 to 15 mm. and covered with 1 or 2 mm. of soil (rouste), and ground ice (maarouta), thin or heavy deposits of ice occurring underneath ice wedges. Ground ice is divided structurally into crevice ice, massive ice, and stratified ice. Crevice ice is found in soft soils where water has frozen in the crevices, holes and pits forming fragile ice. Massive ice occurring in the clay and sandy soils is formed by water freezing around soil grains. Stratified ice forms horizontal layers ranging in thickness up to 30 mm. which have vertical, needle-like structure, and occurs in all soils. The structure of ground frost is affected by moisture content, soil structure, and the rate of decrease in temperature. Laboratory tests to determine the moisture content of various soils show that every soil type has its own moisture equivalent. Clear ground ice forms when the moisture content of the soil is greater than the moisture equivalent. Thick ground ice formations are attributed to slow decreases in air temperature, and thin layers to a rapid drop in temperature. Ground ice may be decreased or prevented by covering the soil or providing adequate drainage."—SIPRE. **Copy seen:** DLC.

**23360. KOKKONEN, PEKKA AARON, 1887- .** Tutkimuksia viemärien kuntoon vaikuttavista seikoista. Helsinki, 1923. 220 p., 16 plates, illus., tables, diags. (Acta forestalia fennica, 27:3) **Title tr.:** Studies of the circumstances affecting the condition of drainage canals.

Data (based on investigation south of the Arctic Circle) on the freezing and thawing of the sides of canals, subsidence of drained swamps, influence of cowpaths and vegetation, of erosion, crumbling, breaches, upheavals, protrusions; effects of these factors are discussed in relation to the age of the canal. Summary in English, p. 185-220. **Copy seen:** DLC.

**23361. KOKKONEN, PEKKA AARON, 1887-** . Über den Bodenfrost und seine Bedeutung. (Suomalainen tiedeakatemia, Helsingfors. Sitzungsberichte, 1944. p. 153-80, illus., diags.) **Title tr.:** On ground frost and its significance.

The author distinguishes and briefly describes three kinds of ground frost: cavernous, massive and stratified. The water content of the ground and its structure, especially the size of the particles making up the soil, are the main factors determining the type of frozen ground. The thickness of ground frost and the factors influencing it are discussed. The effect of ground frost on plants and agriculture, roads, buildings and construction are described. **Copy seen:** DLC.

**23362. KOLBE, R. W.** Über rezente Standorte von *Actinella punctata* Lew. in Scandinavien. (Svensk botanisk tidskrift, 1950. Bd. 44, häfte 1, p. 76-80) **Title tr.:** On recent localities of *Actinella punctata* in Scandinavia.

**Contains** a survey of recent finds of a fresh-water diatom, *Actinella punctata*, in (among other localities) Titovka on the northwest Murman coast and some stations in Swedish Lapland; includes detailed description of habitat for each locality. **Copy seen:** DA; MH-A.

**23363. KOLDERUP, CARL FREDRIK, 1869-** . Lofotens og Vesterdaals gabbrobergarter. (Bergen, Norway. Museum. Aarbok 1898, pub. 1899, no. 7, p. 1-56, plates 1-3) **Title tr.:** Gabbro rocks of the Lofoten and Vesterdaalen Islands.

**Contains** a petrological study of igneous gabbro rocks of the islands of the Lofoten and Vesterdaalen groups, arranged by the islands, with data on mineralogical content and a few chemical analyses; a general review (p. 40-43) and a note on Lofoten granite, p. 43-44. Summary in German, p. 45-52. **Copy seen:** MH-Z.

**23364. KOLESNIKOV, A. G.** К изменению математических формулировок задачи о промерзании грунта. (Академия наук СССР. Доклады, 1952. т. 82, no. 6, p. 889-91) **Title tr.:** Changing the mathematical formulation in the problem of soil freezing.

Stressing the tendency to schematize when dealing with mathematical and physical problems of soil freezing, the author submits a series of improved formulas for calculating heat transmission, depth of freezing, etc. Bibliography (3 items). **Copy seen:** DLC.

**23365. KOLESNIKOV, B. P.** К систематике и истории развития лиственниц, секции Pauciseriales Patschke. (Академия наук СССР. Ботанический институт. Материалы по истории флоры и растительности СССР, 1946. вып. 2, p. 321-64, illus., text map) **Title tr.:** The taxonomy and historical development of larches, section Pauciseriales Patschke.

**Contains** data on the morphological types of larches of the Far East, including *Larix middendorffii* n. sp. native to Kamchatka Peninsula and the Okhotsk Sea region, and *L. ochotensis* n. sp. occurring on the Okhotsk Sea coast and in the Penzhina and Anadyr' River regions; discussion of the systematic position of Far East larches, history of their evolution, Latin and Russian diagnoses of three new species and five new varieties, p. 356-59; key for determination of larch species and a bibliography (76 items). Summary in English. **Copy seen:** MH-A.

**23366. KOLESNIKOV, B. P.** Сосна как порода для агролесомелиоративных работ на юге Приморья. (Академия наук СССР. Дальневосточный филиал. Владивосток. Горнотехнический институт. Труды, 1946. т. 5, p. 275-86, illus., tables) **Title tr.:** The pine as a species for agroforestry amelioration work in southern Primorye.

**Contains** account of investigation on growth and growth-rate of pine and various coniferous trees under diverse local conditions. On the basis of these studies recommendations are made for what purposes and under what circumstances pine trees should be planted. These studies made by the Mountain-Taiga station in the Primorye (Maritime Province), are of importance to arctic forestry. Bibliography (6 items).

**Copy seen:** DLC.

**23367. KOLLOEN, LAWRENCE N., 1907-** . The decline and rehabilitation of the Southeastern Alaska herring fishery. Washington, 1947. 13 p. incl. 2 plates (diags.). (U. S. Fish and Wildlife Service. Fishery leaflet 252) Mimeographed.

**Explanation** of the decline in the fishery beginning 1935, which occasioned restrictions on fishing, 1939-42; resultant improvement of fishery, 1944-46; record of catch, 1927-46; discussion of biological factors affecting abundance; and prediction for season of 1947. **Copy seen:** DL.

**23368. KOLLOEN, LAWRENCE N., 1907-**, and C. H. ELLING. Outlook for the Alaska herring fishery in 1948. Washington, 1948. 23 p., 2 plates (diags.). (U. S. Fish and Wildlife Service. Special scientific report. No. 52) Mimeographed.

Continuation of a study published under the same title, 1943-44, by E. H. Dahlgren and L. N. Kolloen, q. v., with a recapitulation of the method used, and in addition figures on indices of abundance for the Kodiak region, 1937-47; and for Southeast Alaska, 1929-47; summary of operations in Prince William Sound, 1941-47; and a report on Resurrection Bay, 1937-47.

**Copy seen:** DL.

**KOLLOEN, LAWRENCE N., 1907-**, see also Dahlgren, E. H., & L. N. Kolloen. Outlook for Alaska herring fishery. 1943-44. No. 21340.

**23369. KOLOBKOV, M., and S. KOZHEVNIKOV.** "Chertëzhnafa kniga Sibiri." (Sibirskie ogni, 1951. t. 30, no. 2, p. 85-87) **Title tr.:** "Map book of Siberia."

Contains evaluation of a collection of maps, drawn and edited by Simeon Remezov in 1701 at Tobolsk. Russian voyages of discovery since the 17th century, are briefly reviewed: Ivan Rebnev sailed in 1633 from the mouth of Lena to that of Yana and Indigirka; Tsai Nechaev traveled in 1646 from the mouth of Kolyma and discovered Chaunskaya Guba; Cossack Semen Dezhnev passed the Bering Strait in 1646, etc.

**Copy seen:** DLC.

**23370. KOLOBOV, V. O.** Perspektivy Dal'nevostochnykh rybnyykh promyslov. (In: Dal'ne-Vostochnyy Kray. Upravlenie rybolovstva i okhoty na morskogo zverfa. Rybnye i pushnye bogatstva Dal'nego Vostoka, 1923. p. 342-57, diags., tables) **Title tr.:** Prospects of the Far-Eastern fisheries.

On the basis of the previous 10-15 year period's continuous growth of fishing areas and catches, and the marketing possibilities, the author offers estimates as to how much the Far Eastern waters can produce annually of fish and crabs and their products (fish-oil, fish meat).

**Copy seen:** DLC.

**23371. KOLOSKOV, P. I.** K voprosu o faktorakh i profsessakh firnizatsii snega. (Akademiya nauk SSSR. Izvestiya. Seriya geograficheskaya i geofizicheskaya, 1945.

t. 9, no. 5-6, p. 503-506) **Title tr.:** Factors and processes of snow firnization.

"The works of Flaig, Koch, and [Alfred] Wegener on firn formation are reviewed. The following aspects of snow firnization are explained. (1) In a snow mass, large crystals develop at the expense of small evaporating crystals even when the temperature is constant. (2) When a vertical temperature gradient exists, the moisture passes from the warmer to the colder layers of snow, thus accelerating the firnization of the colder snow. (3) Firnization is accelerated by temperature variations. (4) Firnization is increased when a fresh snowfall with free and bound water is deposited on the firn's surface. (5) Snow saturated with water is unlikely to produce firn. (6) Repeated freezing and thawing of snow produces various forms of firn-like ice."—SIPRE. Bibliography (10 items). Summary in English.

**Copy seen:** DLC; MH.

**23372. KOLOSOV, D. M.** Drevnafa kora vyvetrivaniya v severo-vostochnoi Azii. (Akademiya nauk SSSR. Izvestiya, Seriya geograficheskaya, 1952. no. 5, p. 23-25) **Title tr.:** The ancient crust of erosion in northeastern Yakutia.

Contains remarks upon the place of this type of studies in the Soviet Union, where the study of this kind of erosion in the Urals ranks among the best in the world; other such areas studied in the U.S.S.R. are also noted. The extent of the old crust of erosion along the Yana and its general similarity with such formations in more southerly latitudes is indicated. The Yana crust is described and characterized; evidence is presented that it is an erosion crust; comparison is made with other crusts, etc.

**Copy seen:** DLC.

**23373. KOL'S, R. E.** Reka Taz (Tasul'm). Opisanie i poizneniia k Atlasu nizhnego techeniia reki Taza ot Khal'mersédo do Sidorovskoi pristani ili zimov'ia V. V. Sedel'nikova. Leningrad, Izd. Gosudarstvennogo Russkogo geograficheskogo obshchestva, 1930. 32 p., fold. map. **Title tr.:** The river Taz (Tasul'm). A description and explanation to the atlas of the lower Taz from Khal'mersédo to the Sidorovsk pier or winter lodge of V. V. Sedel'nikov.

The river (66° N. 82° E.) entering the sea through Taz Bay, a branch of Ob' Bay, was investigated as part of a surveying

project in 1926-27 (see *Arctic Bibliography*, No. 9049). The atlas (8 map sheets, 67°30'-60°30' N. lat.) has not been located. **Copy seen:** DLC.

**23374. KOL'TSOV, I. S.** Buer i parusnye narty. (Problemy arktiki, 1937. no. 1:170-72) **Title tr.:** Ice and snow sail sleds.

"A combined snow-ice sail sled was equipped with 3 ski runners, 2 of them 5.2 m. apart, and the third ski approximately 5.5 m. forward to the 2 stationary skis. The total length of the sled was 8 m., and the area of sails 22 m.<sup>2</sup> The area of the first cleaver was 4.5 m.<sup>2</sup> and of the second cleaver 3 m.<sup>2</sup>. The total weight of the sail sled was about 100 kg. Preliminary tests on snow and ice showed that the sled had a load capacity of 500 to 800 kg. and operated without difficulties even on rugged terrain. Several improvements in the structure of the sled are listed."—SIPRE. **Copy seen:** DLC.

**23375. KOMAROV, L. V.** Opyt ozhivleniia ushei krolikov zamorozhennykh v zhidkom kislorode. (Akademiia nauk SSSR. Doklady. Novaiia seriia, 1949. t. 64, no. 5, p. 747-49, table) **Title tr.:** Attempt to revivify the ears of rabbits frozen in liquid oxygen.

Contains an account of experiments with rabbits' ears immersed up to 5.5 minutes in liquid oxygen, and subsequently re-warmed by a variety of methods. Irrespective of the latter, a revival of cellular elements of the frozen ears, as indicated by ensuing inflammation processes, is claimed by the author. An account of these and the pathological processes is given; all ears, except those dipped for less than four seconds, finally became mummified and fell off. **Bibliography** (3 items). **Copy seen:** DLC.

**23376. KOMAROV, VLADIMIR LEONT'EVICH, 1869-1945.** Izbrannye sochineniia VII. Flora poluostrova Kamchatki, Chast' I. Moskva-Leningrad, Izd-vo Akad. nauk SSSR, 1951. 506 p. 31 tables, fold. map **Title tr.:** Collected Works VII. Flora of the Kamchatka Peninsula, Part I.

This is a new edition of the first volume of a three-volume monograph published under the same title in 1927 (*Arctic Bibliography*, No. 9057). This incorporates slight textual changes along with notes and additions made by the author after the appearance of the first edition.

It includes plants beginning with the ferns up to Caryophyllaceae.

**Copy seen:** DLC.

**KOMAROV, VLADIMIR LEONT'EVICH, 1869-1945, see also Il'in, M. M.** Znachenie rabot V. L. Komarova. 1946. No. 22792.

**KOMAROV, VLADIMIR LEONT'EVICH, 1869-1945, see also Pavlov, N. V. V. L. Komarov. 1951. No. 25002.**

**KOMLEV, L. V., see Gerling, E. K., & others.** On age of Lovozero tundras. 1941. No. 22081.

**23377. KOMPPA, GUST.** Über das aetherische Öl der amerikanischen Fichte, *Picea alba* Lk. (*Picea canadensis* Sarg.) Helsinki, 1933. 8 p. table. (Suomalainen tiedeakatemia. Annales Academiae Scientiarum Fennicae, A38:8) **Title tr.:** On the volatile oil of the American spruce, *Picea alba* Lk. (*Picea canadensis* Sarg.)

A physical and detailed chemical analysis of an oil obtained by steam distillation of twigs and needles of the tree.

**Copy seen:** DLC.

**23378. KONCHA, V., and others.** Khibinogorskaiia obogatitel'naia fabrika. Khibinogorsk, Izd. Khibinogorskogo gorodskogo Soveta rabochikh, krest'ianskikh i krasnoarmieskikh deputatov, 1933. 44 p., illus. **Other authors:** M. Kochetkov and G. Strel'tsin. **Title tr.:** The Khibinogorsk ore-concentration plant. Published by the Khibinogorsk community workers, peasants and Red Army deputies.

Popular account of this plant in the town later called Kirovsk (67°37' N., 33°39' E.) in Khibiny Tundra; its location, conditions, design and working methods. **Copy seen:** DLC.

**KONDAKOV, N. N., see Belopol'skii, L. O.** Al'bom-opred. ptits Barentsova moria. 1938. No. 20557.

**23379. KONGISER, RUDOLF ALEXANDROVICH, 1905-1934.** O nakoplenii ioda vodorosl'iu *Ptilota*. (Rybnoe khozaistvo Dal'nego Vostoka, 1931, no. 3-4, p. 43-46, map) **Title tr.:** On the accumulation of iodine by the seaweed *Ptilota*.

A survey of iodine-containing algae of the genus *Ptilota*, found in Korf Bay and Karagin Island (Bering Sea). Horizontal

and vertical distribution of these plants as well as chemical data are given.

**Copy seen:** DLC.

**22380. KONOW, FRIEDRICH WILHELM, 1842-1908.** Über neue oder wenig bekannte Tenthrediniden (Hymenoptera) des Russischen Reiches und Central-Asiens. (Akademiā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1903. t. 8, no. 1, p. 115-32) **Title tr.:** On new or little known Tenthredinidae (Hymenoptera) of the Russian Empire and Central Asia.

**Contains** keys to the species and Latin descriptions of 19 new or little known tenthredinids from various regions of Russia, including *T. arctica* from lower Lena River region.

**Copy seen:** DLC; MH-Z.

**KOOMEN, M. J.,** see Pearson, C. A., & M. J. Koomen. Night sky brightness. 1950. No. 25011.

**22381. KOPERINA, V. V.** Otchet po geologicheskoi s"emke verkhnego techeniia r. Adzvy i r. Khaipydyry v 1932 g. (Zemlevedenie, 1933. t. 35, vyp. 4, p. 314-37, illus.) **Title tr.:** Report on the geological survey of the upper course of Adz'va and Khaipydyra Rivers in 1932.

**Contains** data on geomorphology of the basin of the Adz'va River, a right tributary of the Usa in Bol'shezemel'skaya Tundra; stratigraphy and tectonics of pre-glacial deposits in the Adz'va region; geomorphology and geology of the Khaipydyra River (68°20' N., 59°28' E.) basin and a bibliography (23 items).

**Copy seen:** NNA.

**22382. KOPPERS, WILHELM, 1886-** Eskimoisch-mongolisches in der vorrösischen Bevölkerung des britischen Inselreiches. (Anthropos, Ephemeris, 1917-18, Bd. 12-13, p. 706-709) **Title tr.:** Eskimo-Mongoloid elements among the pre-Aryan inhabitants of the British Isles.

The paper is based on two articles by Jul. Pokorny, published in *Zeitschrift für celtische Philologie*, 1917-18, Bd. 11, p. 189-204, and Bd. 12, p. 195-231, where a possibility was suggested that in the paleolithic period a Mongoloid race (Eskimos) inhabited the British Isles.

**Copy seen:** DLC; InU.

**22383. KOPPERS, WILHELM, 1886-** Vitamine und polare Rohfleisesser. (Anthropos, Ephemeris, 1926. Bd. 21,

p. 272-73) **Title tr.:** The vitamins and polar eaters of raw meat.

**Contains** note on the inclination of polar peoples to eat some raw meat daily, thus instinctively providing themselves with some of the essential vitamins.

**Copy seen:** DLC; InU.

**22384. KOPPES, WAYNE F.** A report on characteristics of snow houses and their practicability as a form of temporary shelter. [Washington] National Research Council, 1948. 18 p., diagrs. Mimeographed.

"A report to the Subcommittee on Shelter and Clothing, Committee on Sanitary Engineering and Environment, National Research Council."

Review and correlation of the published literature, also some new material, on "air temperature, humidity, air change, wall and floor temperatures and CO concentrations existing in the interior" of snow houses under arctic conditions. Includes construction methods, both typical and use of inflated forms, floor linings, glazing, characteristics of ventilation, sound insulation, interior illumination; also computations of heat loss, rate of air change and heat load under ventilated conditions.

"Snow houses are built from domino-shaped blocks of wind-pressed snow, 4-5 in. thick, 20-40 in. long and 12-20 in. wide, on level drifts, 3 ft. deep. Snow houses adequate for 4-5 people are 10-12 ft. in diameter and 7 ft. in height. The blocks are laid in a continuous spiral, each layer tilting slightly inward. The door is provided by tunnelling under the wall to a pit inside the house. The snow house is glazed on the inside by raising the temperature to induce thawing and lowering the temperature to refreeze the melt-water. The dome vent and sub-floor entrance trench simplify heating and ventilating problems. The construction and use of snow houses are restricted to low temperature areas, the proper snow consistency, and 10 days to 2 weeks duration. The military advantages include the elimination of transporting shelter units, low cost and speed of construction and heating, camouflage values, and superior comfort afforded. It is recommended that military personnel in the Arctic be trained in the construction of snow houses. Research concerning temperature and ventilation under various weather conditions and experimentation with pneumatic forms for rapid snow

block manufacture are suggested."—  
SIPRE.

*Copy seen:* DAI.

**23385. KOPYLOV, N. IÄ.** Razgrom Amerikano-Angliiskoi voennoi interventsii na Sovetskoi severe v 1918-1920 godakh. Moskva, Izd-vo "Znanie" 1952. 29 p., maps. *Title tr.:* The defeat of the American-British war intervention in the Soviet North, in 1918-1920.

*Contains* an account of the Anglo-American war of intervention in European arctic Russia with sections on: American imperialists as instigators of armed intervention in Russia; Anglo-American attack on the Soviet North; its defeat in the Kotlass sector; defeat in the Petrozavodsk front; cruelties of American and British soldiers. *Appendix* with campaign maps.

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**23386. KOPYTOV, S.** Kak osvaivalis' promyslovyie raiony Barentsova moria. (Bülleten' rybnogo khoziaistva, 1940, no. 7, p. 6-8). *Title tr.:* How the industry was mastered in the Barents Sea area.

The account covers 20 years' development of the trawling industry of the area. Quantitative as well as scientific and technological advances are considered.

*Copy seen:* DLC.

**23387. KOREN, JOHAN, 1809-1885, and D. C. DANIELSEN.** Beskrivelse over nye arter, henhørende til slægten *Solenopus*, samt nogle oplysninger om dens organisation. (Archiv for matematik og naturvidenskab, 1877. Bd. 2, p. 120-28) *Title tr.:* Descriptions of new species of the genus *Solenopus* with some data on their structure.

*Contains* data on systematics and morphology of seven species of molluscan genus *Solenopus*, including four species native to Lofoten and Finnmark waters.

*Copy seen:* MH-Z.

**KOREN, JOHAN, 1809-1885, see also** Bock, S. *Epithetosoma* not gephyrean. 1921. No. 20751.

**23388. KORFF, SERGE A.** A survey of Alaskan peaks. (Physics today, July 1952, v. 5, no. 7, p. 18-20)

*Contains* account of reconnaissance made in Apr. 1952 by Terris Moore, then president of University of Alaska, and the author, in an effort to determine the feasibility of establishing high altitude cosmic-ray stations in the far North. Elevation, weather conditions and com-

munication, accessibility to ground and air supply etc., are considered in relation to various mountain peaks. Of those with sufficient altitude, the Wrangell group is found the easiest on which to install and maintain an observing party or high altitude station; Hayes is next and McKinley the most difficult and expensive.

*Copy seen:* DLC.

**23389. KORHONEN, VILLE VIH-TORI, 1885- .** Kaksi Suomessa v. 1912 sattunutta harvinaista ilmastollista ilmiötä. Helsinki, 1914. 49 p., 5 plates (maps), tables. (Suomalainen tiedeakatemia. Annales Academiae scientiarum fennicae, A6:2) *Title tr.:* Two unusual meteorological phenomena occurring in Finland in 1912.

*Contains* data on a heavy snowfall in Lapland on Aug. 28-30, and a blizzard on Oct. 2-4 which affected most of Finland without touching Lapland. Depth of the snow in sheltered places and in the open is given, date of snow's disappearance, and number of days of snowfall in 260 places in Finland; water content and density of the snow; damage to ships, etc. *Maps* (12) indicate snow depth, snow-covered areas, temperature, areas with tree damage, and freezing of small lakes.

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**23390. KORHONEN, VILLE VIH-TORI, 1885- .** Kasvukauden sademäärä Suomessa. (Suomen maataloustieteellinen seura. Aikakauskirja, 1940. v. 12, no. 4, p. 157-78, incl. 17 maps on 7 plates, tables) *Title tr.:* Amount of precipitation in Finland during the growing season.

*Contains* a report on precipitation in Finland during May-September. The average values cover the period 1886-1935, and are represented on a map and table I. The method of computation is presented in detail. *Copy seen:* DLC.

**23391. KORHONEN, VILLE VIH-TORI, 1885- .** Niederschlagskarten von Fennoskandia. Helsinki, 1925. 5 p., maps (inc. fold.). (Finland. Meteorologinen keskuslaitos. Toimituksia. Meteorologische Zentralanstalt. Mitteilungen, no. 16) *Title tr.:* Precipitation charts of Fennoscandia.

Explanatory introduction with 6 charts of seasonal and annual isohyets; based on various normal periods from Norwegian observations 1876-1915, Swedish 1881-1920, Finnish and Russian 1886-1915.

*Copy seen:* DLC.

**23392. KORHONEN, VILLE VIHTORI, 1885-**, and **T. O. LAVILA.** Die Periode mit Schneefällen in Finnland. Helsinki, 1939. 32 p., tables, maps. (Suomalainen tiedeakatemia. Annales Academiae scientiarum fennicae, A51:2) **Title tr.:** The time period with snowfall in Finland.

Tabulation, discussion and cartographic presentation of mean dates for 1911-30 of the earliest (1891-1930 for this datum) and last snowfall, also duration and depth of snow cover in about 250 Finnish localities, many north of the Arctic Circle. **Copy seen:** DLC.

**23392A. KORHONEN, VILLE VIHTORI, 1885-**. Report of the researches concerning snow- and ice-conditions, which have been made in Finland after 1936. (International Geodetic and Geophysical Union. Association of Scientific Hydrology. Assemblée générale d'Oslo, 1948. Procès verbaux, T. 2. Travaux de la Commission de la Neige et des Glaciers, pub. 1950? p. 31-32)

"A list of 23 papers published since 1936 in Finland, on the subject of snow, ice, freezing of rivers and lakes, heat budget of Finnish seas and lakes, etc. (All in German or Finnish, with English or German translation of tables)." **Meteorological abstracts and bibliography**, Sept. 1953. v. 4, no. 9, p. 1021.

**Copy seen:** DGS; DWB.

**23393. KORHONEN, VILLE VIHTORI, 1885-**. Untersuchungen über die Dichte und das Schmelzen der Schneedecke in Finnland. Helsinki, 1926. 75 p., tables, diagrs. (Suomalainen tiedeakatemia. Annales Academiae scientiarum fennicae, A26:3) **Title tr.:** Investigations on the thickness and melting of the snow cover in Finland.

Discussion and tabulation of data from a varying number of representative localities including Inari, Sodankylä Kittilä in the North. Following outline of method of calculation and reduction, author treats fluctuation of snow cover, maximum, minimum and mean depths; the main melting period, depth of snow cover and water content, appearance, decrease, time point of most rapid melting, maximum flood of melt water, etc.

**Copy seen:** DLC.

**23394. KORHONEN, VILLE VIHTORI, 1885-**. Der Warme Winter 1929-1930. Helsinki, 1933. 83 p., 3 plates (maps), tables. (Suomalainen tiedeakatemia. An-

nales Academiae scientiarum fennicae, 37:2) **Title tr.:** The warm winter of 1929-1930.

Contains weather analysis of this unusually warm winter in Finland: comparative data on temperatures, precipitation, snow cover and ice conditions. Northern areas are included.

**Copy seen:** DLC.

**KORHONEN, VILLE VIHTORI, 1885-**, see also Finland. Meteorologinen Keskuslaitos. Sade- ja lumihavainnot Suomessa vuonna 1939. 1950. No. 21798.

**23395. KORĖAKINA, V. F.** Dinamika rosta, nakopleniia massy i khimicheskogo sostava travostoia severodvinskikh polnennykh lugov. (Akademiia nauk SSSR. Botanicheskii institut. Trudy. Seria 4, Eksperimental'naia botanika, 1951, vyp. 8, p. 371-434, diagrs., tables) **Title tr.:** Dynamics of the growth, accumulation of mass and chemical content of the grasses of inundated meadows of the Northern Dvina River region.

Contains results of an ecologo-phenological study of the inundated meadows of Kotlas (61° N., 46° E.) and Kholmogory (64° N., 41° E.) regions of Arkhangel'sk province, carried out in 1938-39. The natural history of the two regions is characterized. The meadows are described, and data given on their floristic content (lists of herbs), and on the plant formations of various types of pastures. Soil analyses, dynamics, accumulation of mass and chemical content are shown. Hay yields of two regions are compared and the results discussed. **Bibliography** (35 items). **Copy seen:** MH-A.

**23396. KORNERUP, STELLA.** Pohjolan kielel etääntyvät toisistaan nopeasti. (Pohjola, 1950, 1, p. 2-3, illus.) **Title tr.:** The northern languages are rapidly growing different from each other.

Discussion of the increasing divergence between the languages of seven northern races in the five Fenno-Scandinavian countries: Finland, Sweden, Norway, Denmark, and Iceland.

**Copy seen:** DLC.

**KOROBITSYN, NIKOLAI IVANOVICH,** see Andreev, A. I. Russ. discoveries in Pacific & N. America. 1952. No. 20215.

**23397. KOROTNEV, ALEKSEI ALEKSEEVICH, 1852-**. Poizhdka na Shpitsbergen; ocherk. Kiev, Tip. Imp. univ. sv. Vladimira, 1898. ii, 84 p., illus., map.

**Title tr.:** Voyage to Spitsbergen, a sketch.

Outline of a trip to West Spitsbergen in 1898 with I. N. Semenkevich of the University Museum, to collect zoological and botanical material; with historical remarks on exploration of the region, description of plant and animal life, climatic conditions, etc.

**Copy seen:** DLC.

**23398. KORVENKONTIO, V. A.** Närpiön Grönlanninhyljelyötö. (Luonnon tutkija, 1938. v. 42, no. 1, p. 1-9, illus.) **Title tr.:** On finding a Greenland seal at Närpiö.

Contains description of a find of the bones of a Greenland seal (*Phoca groenlandica*) along with a bone harpoon in a field at Närpiö (62°30' N., 21°15' E.) in Finland. The bones were 60 mm. deep in Littorina clay soil and 17 m. above sea level. Prof. Matti Sauramo determined the geological age and Jormo Leppäaho (on the basis of his archeological work and A. Ayräpää's chronological chart) dated the relics as of about 3500 B. C. Includes remarks on seals of arctic waters at the turn of the century and on the ancient harpoon finds. Reference is given to a more extensive paper by Leppäaho, Sauramo and the present author, in *Suomen museo*, 1936, p. 1-37 (copy not located).

**Copy seen:** DLC.

**KOROVKIN, A. A.,** see Akademiiä nauk SSSR. Khibinskaia gornaiä stanitsiä. Khibinskaia gornaiä stanitsiä. 1934. No. 20100.

**KORSUNSKAIA, G. V.,** see Chistjakov, V. F., & others. Slucha! groz. 1950. No. 21196.

**KOSHKIN, I. A. P.,** see Castrén, M. A. Pamiat M. A. Kastrena. 1927. No. 21135.

**23399. KOSIBA, ALEKSANDER.** Mapa pierwszej Wyprawy Naukowej na Grenlandię. (Czasopismo geograficzne, 1939. t. 17, p. 37-38) **Title tr.:** Map of the First Scientific Expedition to Greenland.

Note on the map "Grenlandia Zahodnia, strefa brzeżna lądolodu w okolicy Fiordu Arfersiorfik" (West Greenland coast and glaciers in the region of Arfersiorfik Fjord) scale 1:50,000, published Feb. 1939. The new place names introduced, and its other features are briefly noted. It is a result of the first Polish Greenland Expedition, 1937.

**Copy seen:** DLC.

**23400. KOSIBA, ALEKSANDER.** Teoria dryftowa A. Wegenera w świetle ostatnich pomiarów w Grenlandii [sic]. (Czasopismo geograficzne, 1939. t. 17, p. 45-46)

**Title tr.:** A. Wegener's drift theory in light of the most recent survey of Greenland.

**Copy seen:** DLC.

**23401. KOSINSKAIA, EKATERINA KONSTANTINOVNA, 1900-** Desmidiyeve vodorosli (Desmiales) Evropeiskogo Severa SSSR, rody *Penium*, *Closterium*, *Dodidium*, *Pleurotaenium*, *Triplloceras*, *Tetmemorus*. (Akademiiä nauk SSSR. Botanicheskii institut. Trudy, Ser. 2, Sporovyie rasteniä, 1951. vyp. 7, p. 481-712, illus., plates 1-30) **Title tr.:** Desmiales of the European North of the U.S.S.R. Genera: *Penium*, *Closterium*, *Dodidium*, *Pleurotaenium*, *Triplloceras*, *Tetmemorus*.

Contains a study of fresh-water desmids of six genera, native to this area, comprising keys to the subfamilies, genera, species, varieties and forms; descriptions of 90 species and numerous forms, with synonyms, dimensions, literature references and data on habitat and geographic distribution. Bibliography (about 250 items), illustrations and index of Latin names are included.

**Copy seen:** DLC.

**23402. KOSINSKAIA, EKATERINA KONSTANTINOVNA, 1900-** Opredelitel' morskikh sinezelenykh vodoroslei. Moskva-Leningrad, 1948. 278 p., illus. (271 fig.). (Akademiiä nauk SSSR. Botanicheskii institut) **Title tr.:** Determination tables of marine blue-green algae.

Published as supplement to A. A. Elenkin, *Sinezelenye vodorosli SSSR*, spets. chast', vyp. I-II, 1936-48, q. v.

Contains in the general part, brief general notes on blue-green algae (p. 1-31), and the system of Cyanophyceae as published by A. A. Elenkin in 1936 (p. 27-31). In the systematic part (p. 32-265) are tables for the determination of orders, families, genera and species of marine Cyanophyceae, and an enumeration of 56 species and many varieties, with descriptions, synonyms, exsiccatae and data on ecology and geographic distribution in the seas of the U.S.S.R. and other countries. Some species native to arctic waters are included. Bibliography (66 items) p. 266-68; alphabetical index of Latin names, p. 269-75.

**Copy seen:** DLC; MH-F.

**KOSINSKAIA, EKATERINA KONSTANTINOVNA, 1900-**, see also Elenkin, A. A., & others. Sinezelenye vodorosli SSSR, I-II. 1938-49. No. 21634.

**23403. KOSKIMIES, JUKKA.** Tuloksia riistaeläinten merkittämisestä Suomessa vv. 1947-49. (Suomen riista, 1950, no. 5, p. 134-43, illus., map) *Title tr.*: Results of the marking of game animals during the years 1947-49.

On the work of the Finnish Foundation for Game Preservation, which carried out marking in northern as well as other localities of Finland. A list is given of more than 30 recoveries from about 1500 birds and mammals marked (861 gallinaceous birds, 485 waterfowl, and 105 mammals). Data are offered on the marking, recovery, circumstances of capture, time, distance and direction between places of marking and recovery.

*Copy seen:* DLC.

**23404. KOSMOVSKIĬ, KONSTANTIN ADAMOVICH.** Quelques mots sur les couches à végétaux fossiles dans la Russie orientale et en Sibérie. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1891, pub. 1892. Novaiâ seriâ, t. 5, no. 1, p. 170-77) *Title tr.*: Remarks on the strata of fossil flora in eastern Russia and Siberia.

Contains a review of previous works on the fossil flora of the area, and data on that of the "Gondwana system" in the region of the Tunguska River in Krasnoyarskiy Kray. Notes are given on various species and comparison made with the flora of other regions of the same age, including the basin of Pechora River.

*Copy seen:* DLC; MH-A.

**23405. KOSTIN, S. I.** Osnovy meteorologii i klimatologii. 2-e izd. Dopushcheno Ministerstvom vysshego obrazovaniâ SSSR v kachestve uchebnika dlâ lesokhoziaistvennykh i lesotekhnicheskikh in-tov. Leningrad, Gidrometeorologicheskoe izd-vo, 1951. 372 p. illus., diagrs., tables, maps. *Title tr.*: Fundamentals of meteorology and climatology. 2d ed. Admitted by the Ministry of higher education SSSR, as a textbook for institutes of forestry and forest industry.

Contains text of a course with special emphasis on the effects of climate on plants, especially forests, also the effect of plants on climatic factors and man's struggle with, and influence upon climate. Part 1 (p. 7-255) deals with meteorological

problems, such as the atmosphere, its composition and pressure, solar radiation, temperature of the air and ground; evaporation, precipitation, etc. Part 2 (p. 256-58) deals with fundamentals of climatology and the climate of the Soviet Union, including (p. 331-35) the arctic zone. In addition to scattered references to arctic conditions, the text includes sections on frozen ground and permafrost (p. 86-90)\*, water surfaces (p. 93-95)\*, snow cover (p. 167-70), snow retention and melting (p. 191-96), kinds of climate, climate of eternal frost, climate of the tundra and of the taiga (p. 297-302). *Appendix* (p. 362-69) contains tables on temperature-humidity relations; temperature-vapor pressure relations; barometric gradients, etc. Bibliography (33 items). \*See item following.

*Copy seen:* DLC.

**23406. KOSTIN, S. I.** Promerzanie pochy; znachenie promerzaniâ pochy; vechnaiâ merzlota; nagrevanie i okhlazhdenie vodnykh poverkhnostei. (In his: Osnovy meteorologii i klimatologii, 1951, p. 86-90, 93-95, incl. tables, map) *Title tr.*: Freezing of ground and its significance; permafrost; heating and cooling of water surfaces.

"Frost penetration of soils is controlled by climate, snow cover, relief, soil structure, moisture content, type of soil, vegetative ground cover, and groundwater level. Repeated freezing-and-thawing changes the physical properties of the soil mainly by increasing porosity and permeability. The moisture content of the soil under the frozen layer increases through condensation of vapor from deeper, warmer soil. The southern boundary of permafrost coincides with the mean annual isotherm of  $-2^{\circ}\text{C}$ . The addition of NaCl (0-3.5 percent) to water decreases the temperature at maximum density from  $+4^{\circ}\text{C}$ . to  $-3.5^{\circ}\text{C}$ . The temperature of maximum density and the freezing point are identical ( $-1.3^{\circ}\text{C}$ .) at a salt content of 2.4 percent."—SIPRE. *Copy seen:* DLC.

**23407. KOSTYCHEV, SERGEĬ PAVLOVICH, 1877-1931, and others.** Sutochnyi khod fotosinteza pri nezakhodâshchem solnse v polârnol zone. (Akademiâ nauk SSSR. Izvestiâ. Seriâ 7. Otdelenie fiziko-matematicheskikh nauk, 1930, no. 7, p. 599-630, diagrs.) *Other authors:* E. N. Bazyrina and V. A. Chesnokova. *Title tr.*: Day and night

photosynthesis of plants in the polar zone under a non-setting sun.

Contains a study of photosynthesis of five plants (*Caltha palustris*, *Rubus chaemaemorus*, *Rumex acetosella*, *Phleum pratense* and *Allium cepa*) carried out on the Murman coast during the summer, when the sun remains above the horizon, with diagrams and tabulated experimental data.

**Copy seen:** DLC; MH.

**23408. KOSTYLEV, IURIĬ.** Nauchnye rezultaty Ĭakutskoi ĕkspeditsii Akademii nauk SSSR. Materialy k poznaniu fauny odinochnykh os (Vespodea, Eumeninae) Ĭakutii. (Akademii nauk SSSR. Zoologicheskii institut. Trudy. 1932. t. 1, vyp. 1, p. 143-48) **Title tr.:** Scientific results of the Yakut Expedition of the Academy of Sciences; contribution to the study of the solitary wasp (Vespodea, Eumeninae) of Yakutia.

Contains a list of 11 species of solitary wasps (Vespodea) subfam. Eumeninae, collected in Yakutia by the members of the Expedition of the Academy of Sciences in 1925 and 1926, with descriptive notes and localities.

**Copy seen:** DLC; MH-Z.

**23409. KOSTYLEV, N. N.** Notes regarding v. Linstow's paper on the Acanthocephala of the Zoological Museum of the Academy of Sciences of U.R.S.S. (Akademii nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1925. pub. 1926. t. 26, vyp. 1-2, p. 1-9, plate 1)

Contains a criticism of the article by O. Linstow, *Entozoa d. Zoologischen Museums*, etc., 1903, q. v., based on a study of material used by Linstow, with corrected descriptions and critical notes; includes *Echinorhynchus propinquus* and *E. arcticus* from Bering Sea and *E. hepaticola* from the White Sea.

**Copy seen:** DLC; MH.

**23410. KOSTYLEVA, E. E.** Ĭuksporit iz Khibinskikh tundr. (Akademii nauk SSSR. Doklady, seriia A, 1932, no. 3, p. 71-78, tables) **Title tr.:** Uxporite from the Khibiny tundras.

General characteristics; physical and chemical properties; topography and occurrence of other minerals in the same area, and a comparison with other minerals are outlined.

**Copy seen:** DLC.

**23411. KOSTYLEVA, E. E.** Katapleit Khibinskikh tundr. (Akademii nauk SSSR. Izvestiia. Seriia 7. Otdelenie matematicheskikh i estestvennykh nauk,

1932. no. 8, p. 1109-25, text map) **Title tr.:** Catapleite of Khibiny Tundra.

Contains a general description of this mineral found in central Khibiny by members of the Kola expedition, with data on its chemical composition, crystallographic and optical properties, and mineralogical description of the pegmatite rocks where catapleite was found.

**Copy seen:** DLC; MH.

**23412. KOSTYLEVA, E. E.** O novom mineral, ramzaite iz Khibinskikh i Lovozerskikh tundr. (Akademii nauk SSSR. Doklady, seriia A, July-Dec. 1923. p. 55-58, tables) **Title tr.:** On a new mineral, ramsayite from the Khibiny and Lovozero Tundras.

Distribution, crystallography and chemistry of this mineral, named in honor of the first student of the Lovozero Tundra, Wilhelm Ramsay.

**Copy seen:** DLC.

**23413. KOTILAINEN, MAUNO J.** *Salix pyrolifolia* Led. Tervolassa. (Societas pro fauna et flora fennica. Memoranda, 1948-49, pub. 1950. no. 25, p. 18-22, text map) **Title tr.:** *Salix pyrolifolia* Led. in Tervola.

Contains floristic notes and data on the distribution of a northern species of willow, *Salix pyrolifolia*, found in Tervola, northern Ostrobothnia and the Kuusamo region, Finland.

**Copy seen:** DLC; MH-A.

**23414. KOTILAINEN, MAUNO J.** Über die Frostschäden an wilden Pflanzen. (Suomalainen tiedeakatemia, Helsingfors. Sitzungsberichte, 1948, p. 135-57, tables) **Title tr.:** Frost damage to wild plants.

Contains a study made during the summer of 1948 on frost damage (spring and summer frost) to wild plants in Finland including those of arctic regions. Author stresses the paucity of references to, and studies of, the problem and touches also the question of the physiology of freezing of plants. He subsequently gives a detailed account of frost damage observed during his travels, to: ferns, herbaceous plants, bushes and trees (including economically important forest species). The parts and kinds of plants mostly damaged, the possible effects of frost damage on the ecology and geographic distribution of the plants, as well as on their growth are discussed, and factors aiding frost injury are analyzed.

**Copy seen:** DLC.

**23415. KOTILAINEN, MAUNO J.** Über die Verbreitung der meso-eutrophen Moorpflanzen in Nordfinland. Helsinki, 1951. 162 p. incl. district maps, fold. map. (Suomalainen tideakatemia. Toimituksia. ser. A, IV, Biologia, 17) **Title tr.:** On the distribution of meso-eutrophic moorland plants in North Finland.

Contains a regional inventory of fen- or moor-land plants in the Finnish parishes between 65°30'–68° N., defined with regard to area, cultivability and soil quality. Distribution of 139 vascular plants and the floral provinces of the region are discussed; frequency distribution maps for selected species are presented. Bibliography (97 items).

**Copy seen:** DGS.

**KOTOVICH, V. A.,** see Al'bov, N. V., & V. A. Kotovich. K voprosu struktury Onego-Dvinskogo mezhdurech'ia. 1939. No. 20124.

**23416. KOTSEBU, OTTO EVSTAF'EVICH, 1787–1846.** Voyage of discovery in the South Sea, and to Behring's Straits, in search of a North-East Passage, undertaken in the years 1815, 16, 17, and 18 in the ship Rurick. London, R. Phillips, 1821. 2 pts. in 1 v. (220 p.) Caption and running titles: Voyage round the world. Published in *New voyages and travels*, edited by Sir Richard Phillips, v. 6.

According to the verso of the t.-p. of pt. 1, pt. 2 "will contain the conclusion of Capt. Kotzebue's voyage, together with the . . . narrative of M. Chamisso, the naturalist, and a translation of some of the valuable memoirs with which the German original is terminated." But this plan was not carried out apparently.

This is a much abridged version of the author's narrative (see *Arctic Bibliography*, No. 9192, 9195), containing a brief section (p. 173–83) on the visit to the Aleutian Islands (Unalaska, Unimak).

**Copy seen:** DLC.

**23417. KOTTKE, F. J., and others.** Effect of hypoxia upon temperature regulation of mice, dogs and man. (American journal of physiology, Apr. 1948, v. 153, p. 10–15, 4 fig.) **Other authors:** J. S. Phalen, C. B. Taylor, M. B. Visscher, and G. T. Evans.

Contains a report on experiments which demonstrated that hypoxia decreases the ability of the species tested to control body temperature in a cold environment.

This was most pronounced in the mouse, least in man. Shivering was inhibited in all species studied. In man exposed to cold, suppression of an increased oxygen consumption by hypoxia and a greater dissipation of heat from the skin, were demonstrated. Decreased environmental and body temperature favored survival of mice exposed to progressive hypoxia. Bibliography (16 items).

**Copy seen:** DLC.

**23418. KOVAKINA, V. A.** O perezymovvanii nekotorykh zlakov na kraĭnem Severe. (Botanicheskii zhurnal, 1952. t. 37, no. 5. p. 694–98) **Title tr.:** On some grasses which stand the winter in the far North.

Contains the result of the study of hardiness of some northern grasses, carried out on the Murman Reindeer-breeding Station near Ponoy, in the winter of 1947, under varying conditions, with tabulated data (tables 1–4).

**Copy seen:** MH-A.

**23419. KOZHANCHIKOV, IGOR' VASIL'EVICH.** K sistematike rodov gruppy *Anarta* Ochs. (Lepidoptera, Noctuidae), v svyazi s dannymi po ikh ėkologii i geograficheskomu rasprostraneniĭ. (Entomologicheskoe obozrenie, 1947. t. 29, no. 1–2, p. 12–35, illus., text map) **Title tr.:** On systematics of the genera of the *Anarta* group (Lepidoptera, Noctuidae), in relation to the ecology and geographic distribution of the species of *Anarta* Ochs.

Contains a critical revision of lepidopterous genera of the *Anarta* group, with a table for the determination of allied genera and critical notes and data on geographic distribution of 13 genera and many species. Many species having circumpolar distribution (see text map on p. 28) are included. Summary in English.

**Copy seen:** MH-Z.

**23420. KOZHANCHIKOV, IGOR' VASIL'EVICH.** Rod *Gynaephora* (Lepidoptera, Orgyidae), ego rasprostranenie i filogeneticheskie svyazi. (Akademiia nauk SSSR. Zoologicheskii institut. Trudy, 1948, t. 7, vyp. 3, p. 149–61, illus., text maps) **Title tr.:** The genus *Gynaephora* (Lepidoptera, Orgyidae), its distribution and phylogenetic affinities.

Contains a systematic and phylogenetic study of lepidopterous genus *Gynaephora* with a synopsis of the species, including a Russian diagnosis of *G. lugens* n. sp., native to the Northern Urals and the

Siberian Arctic from the Yenisey River to Bering Sea and Kamchatka. Data are given on geographic distribution of *G. rossi* (Alaska, Labrador and Greenland) and *G. groenlandica* (Greenland and Melville Island) and a key to the caterpillars of this genus is added.

**Copy seen:** DLC; MH-Z.

**23421. KOZHANCHIKOV, IGOR' VASIL'EVICH.** Tšiki razvitiia i geograficheskoe rasprostranenie zimnei pčadenitsy *Operopthera brumata* L.

(Entomologicheskoe obozrenie, 1950. t. 31, no. 1-2, p. 178-97, illus., text map) **Title tr.:** Life cycle and geographic distribution of *Operopthera brumata* L.

**Contains** a study of the life cycle, phenology, ecology and geographic distribution of a butterfly, *Operopthera brumata*, the larva of which is very injurious to the leaves of many trees and shrubs (see the list of plants, p. 184). The area of this pest includes northern Scandinavia (to 69°20' N. in Norway) and Arkhangel'sk province in U.S.S.R.

**Copy seen:** MH-Z.

**KOZHEVNIKOV, F. A.,** see Novoselov, N. S., & others. Lesa DVK. 1938. No. 24747.

**23422. KOZLOVA, E. V.** Ptitsy SSSR. Otriad Gruiformes—pastushki, zhuravli, drofy. Leningrad-Moskva, Izd.-vo Akademii nauk SSSR, 1935. 39 p., illus. (In: Akademiia nauk SSSR. Opredeleteli po faune SSSR. no. 17) **Title tr.:** Birds of the U.S.S.R. Order Gruiformes: rails, cranes, bustards.

**Contains** table for the determination of Russian species of the order Gruiformes and description of 34 forms, including some species native to northern regions of the U.S.S.R.

**Copy seen:** DLC; MH-Z.

**KOZLOVA, Z. M.,** see Klimenko, G. A., & Z. M. Kozlova. Termicheskii rezhim klevra i lufšerny. 1948. No. 23297.

**23423. KOZLOVICH, V.** Dostizheniia i zadachi olenevodcheskogo khoziaistva Murmanskogo okruga. (Karelo-Murmanskii kral, 1934. v. 12, no. 1-2, p. 73-75) **Title tr.:** Achievements and tasks of reindeer-breeding of the Murman district.

**Contains** a brief history of reindeer-breeding in Russia and abroad, followed by the author's analysis of the causes for its decline during recent years in the

Murman (Kola Peninsula) area. To improve conditions he proposes a quantitative and qualitative rise of the stock, proper economic organization; proper utilization of food resources; and a series of technological, zootechnical and nutritional innovations recommended by the Institute of Reindeer Breeding.

**Copy seen:** DLC.

**23424. KOZ'MIN, N. N.** Kto takie kamasinsy? (Sibirskaiia zhivaiia starina, 1929, vyp. 8-9, p. 193-97) **Title tr.:** Who are the Kamasins?

**Contains** discussion of the origin of Kamasins who were not merely a Samoyedic tribe, but a mixture with several other ethnic groups. **Copy seen:** DSL.

**KOZ'MINSKIĬ, I. I.,** see Avrorin, V. A., & I. I. Koz'minskii. Predstavleniia orochel. 1949. No. 20378.

**KOZYREVSKIĬ, IVAN PETROVICH,** see Baskin, S. "Bol'shoi chertezh Kamchadalskoi zemli". 1949. No. 20496.

**23425. KRADER, LAWRENCE.** Neolithic find in the Chukchi Peninsula. (American antiquity, Jan. 1952. v. 17, no. 3, p. 261-62, illus.)

**Contains** a short review and evaluation of finds made by Levoshin (q. v.) in 1947 in the central part of the Chukotsk Peninsula (approx. 66° N., 175° W.). Nine objects, mostly fragments, were found, such as spear points, arrow heads, blades, etc. Details from the original and subsequent studies are quoted. The Levoshin finds represent the earliest traces of man on the Chukotsk Peninsula and the first find in its interior. The techniques show a "generalized resemblance" to Ipiutak blades and points. Bibliography (8 items).

**Copy seen:** DSL.

**23426. KRAFFT, ARNE.** Jänistarhaus. (Suomen riista, 1950. no. 5, p. 82-91, illus., diags.) **Title tr.:** Snow hare farming.

"This article is a [Finnish] translation from a Norwegian paper published in Norges Jaeger- og Fisker-Förbunds Tidsskrift 78 (1949) No. 5, describing the Scandinavian experiences and methods of snow hare farming."

**Copy seen:** DLC.

**KRAFT, LISBETH M.,** see Paul J. R., & others. Serological epidemiology N. Alaskan Eskimos. 1951. No. 24997.

**23427. KRAKOWIECKI, ANATOL, 1901-1950.** Książka o Kolymie. Londyn, Nakł. Katolickiego Ośrodka Wydawniczego "Veritas," 1950 [i. e. 1949] 255 p., illus., ports., maps. *Title tr.:* A book about Kolyma.

Polish writer's account of his experiences 1942-47 as war prisoner, the journey to, and life in a penal colony in the Kolyma valley, northeastern Siberia.

*Copy seen:* DLC.

**23428. KRAMARENKO, N. N.** Novye trilobity iz silura basseina reki Podkamennaya Tunguska. (Akademiya nauk SSSR. Doklady, 1952. t. 86, no. 2, p. 401-404) *Title tr.:* New trilobites from the Silurian of the Podkamennaya Tunguska River basin.

Contains diagnoses of one new subfamily, three genera and eight new species of fossil trilobites, collected by E. A. Ivanova in 1950-51, in the Podkamennaya River basin in Krasnoyarskiy Kray.

*Copy seen:* MH-Z.

**23429. KRAMER, HARRIS P.** Selective annotated bibliography on icing. (American Meteorological Society. Meteorological abstracts and bibliography. Sept. 1950. v. 1, p. 593-619)

Chronological list of 181 references on the meteorological and physical aspects of the formation of ice on aircraft, published between 1901 and 1950.

*Copy seen:* DLC.

**23430. KRANCK, ERNST HÅKAN, 1898-** Bedrock geology. (In: Baird, P. D., and others, Baffin Island Expedition, 1950, pub. in: Arctic, Dec. 1950 v. 3, p. 138-39)

Brief preliminary report on bedrock surveys, of parts of the eastern Baffin Island "coastal range with its fiord area and the interior plateau between the high mountains and the inland ice", from bases at the heads of Clyde Inlet, of Gibbs, Eglinton, Sam Ford, and McBeth Fiords, and at the southeast end of the Barnes Ice Cap (ca. 69°30'-70°35' N., 68°-72°30' W.)

*Copy seen:* DAI; DLC.

**23431. KRANCK, ERNST HÅKAN, 1898-** Indications of movements of the earth-crust along the coast of Newfoundland-Labrador. (Finland. Geologiska kommission. Bulletin, 1947. no. 140, p. 89-96, illus., map)

Author presents observations from the northern edge of the Canadian Shield to elucidate the connection between the

geological structure and the origin and evolution of the continental border: data on the physiography of the coast-section; Lake Melville and Sandwich Bay; magmatic intrusions indicating crustal movements; and types of crustal movements along the Labrador coast. Bibliography (10 items).

*Copy seen:* DLC.

**23432. KRANCK, ERNST HÅKAN, 1898-** . Knud Rasmussen. (Terra, 1934. v. 46, no. 1, p. 42-44, illus.) *Title tr.:* Knud Rasmussen.

Tribute to Rasmussen who died Dec. 21, 1933; sketch of his life and work, noting his various expeditions in Greenland and Canada, and his publications.

*Copy seen:* DLC.

**23433. KRANCK, ERNST HÅKAN, 1898-** . On the geology of the East coast of Hudson Bay and James Bay; observations during a research journey in summer 1947. Helsinki, 1951. 71 p., illus. incl. 2 sketch maps. (Acta geographica, v. 11, nr. 2)

Brief report on observations made during the Canadian-Finnish Hudson Bay East Coast Expedition, 1947, from Rupert House to Portland Promontory. Author sketches the geologic history as evidenced in present-day topography, of Precambrian peneplain formation, deposition and diastrophism, Paleozoic deposition and subsequent erosion and tectonic movements, mainly late Tertiary. He describes (in some detail) the features of glacial and postglacial geology, including the Pleistocene sediments, raised beaches, dunes and structural soils; and closes with a description of the petrogenetic, and stratigraphic relations of the Archaean rocks and their contacts with proterozoic sediments. Bibliography (13 items).

*Copy seen:* DGS.

**23434. KRANCK, ERNST HÅKAN, 1898-** . En resa till Labrador langs nordkusten av St. Lawrence-golfen. (Nordenskiöld-samfundets tidskrift, 1950. p. 30-43, illus., map) *Title tr.:* A voyage to Labrador along the North Shore of the Gulf of St. Lawrence.

Contains a description of the voyage in a 40-foot motor boat from Montreal to Hopedale, Labrador, in the summer of 1949. Geological investigations were carried out, mainly in the region from Hamilton Inlet to Hopedale, but no results are given in this paper.

*Copy seen:* CaMAI.

**23435. KRANCK, ERNST HÅKAN, 1898-** . En sommarexpedition till Grönland. (Minnen från "Danska treårsexpeditionen" arbete på Nordöst-Grönland sommaren 1933). (Terra, 1934. v. 46, no. 1, p. 15-34, 14 illus. incl. map) **Title tr.:** A summer expedition to Greenland. Reminiscences the Danish Three-Year Expedition's work in northeast Greenland in the summer of 1933).

*Contains* sketch of the author's experiences as geologist during part of the Danish Three-Year Expedition to Christian X's Land 1931-34 under leadership of Lauge Koch; the voyage to Scoresby Sund in the *Gustav Holm*, ice conditions off the coast, trip in small boat *Polypen* northward along the coast to Kong Oscars Fjord, remarking on the fiords, physical features of Liverpool Land, Traill Island, etc. **Copy seen:** DLC.

**23436. KRANCK, ERNST HÅKAN, 1898-** . Zur Tektonik der lappländischen Granulite. (Finland. Geologiska kommission. Bulletin, 1936. no. 115, p. 373-86, diags.) **Title tr.:** The tectonics of the Lapland granulite.

*Study* deals with the petrology of the area, the macro-tectonics of the granulite arch; the structure in detail; mineral content of the granulite.

**Copy seen:** DLC.

**23437. KRANCK, HUGO.** Tallformationerna i Finland. Helsingfors, 1909. 59 p. illus., 2 fold. maps. (Geografiska föreningen i Finland. Meddelanden, 1907-1909. Bd. 8, no. 8) **Title tr.:** Pine formations in Finland.

*Contains* a description of three main pine formations: forests, heaths and moors. These types are discussed according to the ground flora, sequence and changes of formations, also growth and factors aiding or retarding it. Climate is related to the forest distribution and northern limits of this tree and mountain forests; climatic change in the past centuries is sketched, with suggestion of a possible recess of pine from northern areas and upper mountain limits. Bibliography (59 items). Summary in German.

**Copy seen:** DLC.

**KRAPIVINA, S. S.,** see Ustinova, T. I., & S. S. Krapivina. Usloviâ Zapovednykh kîuchef. 1951. No. 27004.

**23438. KRASHENINNIKOV, IPPOLIT MIKHAILOVICH, 1884-1947.** Opyt filogeneticheskogo analiza nekotorykh Evra-

ziatskikh grupp roda *Artemisia* L. v svâzi s osobennostiami paleogeografii Evrazii. (Akademiâ nauk SSSR. Botanicheskiî institut. Materialy po istorii flory i rastitel'nosti SSSR, 1946. vyp. 2, p. 87-196, illus., text maps, table) **Title tr.:** An attempt at a phylogenetic analysis of some Eurasian groups of the genus *Artemisia* L. according to the paleogeographic features of Eurasia.

*Contains* a study of various groups of herbaceous genus *Artemisia* by applying the phylogenetic method, establishing six principal centres of speciation in Eurasia (incl. Beringian) and giving phylogenetic analyses of various cycles of *A.* subdivided into several taxonomic series. Data are given on their origin, history of development and geographic distribution. Some species native to northern regions of European and Asiatic U.S.S.R. are included. Summary in English.

**Copy seen:** MH-A.

**23439. KRASINSKIÏ, G. D.** Pervyi Lenskiî refs. (Vodnyi transport, dekab' 1927. t. 5, p. 461-70, illus., map) **Title tr.:** The first sea voyage to the mouth of the Lena.

*An appreciation* of the first organized run of a freighter, the *Kolyma*, from Vladivostok to the Lena in 1927, signalized as the beginning of regular traffic; with an historical sketch of arctic exploration, Russia's share in it, especially in recent times; and discussion of the importance of regular transportation along the Northern Sea Route for the development of the mineral resources of northern Siberia, exchange of goods and the continuous supplies for the Yakut hunting population. **Copy seen:** DLC.

**23440. KRASIÛK, A. A.** Rezul'taty pozhvennoi èkspeditsii v Îakutiû v 1925 g. (Akademiâ nauk SSSR. Doklady, seriâ A, Sept. 1926, p. 167-70) **Title tr.:** Pedologic results of the expedition to Yakutia in 1925.

*Description* of the different soils of the area investigated and their value for agriculture.

**Copy seen:** DLC.

**23441. KRASNOV, M. I.** Lesnoe khoziâstvo Kamchatki. (Lesnoe khoziâstvo, July 1939, no. 7, p. 49-52, illus. tables) **Title tr.:** Forest economy of Kamchatka.

*Contains* an areal division of the coniferous forests of the Kamchatka River basin and its tributaries: areas of forests according to species of trees and quality; areas according to age classes;

amount of timber felled annually, and other economic and statistical data.

**Copy seen:** DLC.

**KRASOVSKIĬ, S.**, see Vladimirov, O., & others. Geothermal measurements in Monche-Tundra. 1939. No. 27139.

**KRASOVSKIĬ, V. I.**, see Bagariĭtskiĭ, V. I. & others. K voprosu ob infrakrasnom izlucheniĭ. 1952. No. 20405.

**23442. KRATT, IVAN FEDOROVICH.** Velikiĭ okean. Leningrad, Izd-vo TSK VLKSM Molodaĭa gvardiĭa, 1950. 552 p., illus., fold. map. **Title tr.:** The Great [i. e. Pacific] Ocean.

An historical novel based on the life and events in Russian Alaska at the end of the 18th and beginning of the 19th century.

**Copy seen:** DLC.

**KRAUL, OTTO.** Die Fahrt durch das Eis, see Ruthe, K. Navigation im Eis. 1948. No. 25730.

**23443. KRAUL, OTTO.** Kăpt'n Kraul erzăhlt. 20 Jahre Walfănger unter argentinischer, russischer und deutscher Flagge in der Arktis und Antarktis. Berlin, F. U. Herbig Verlagsbuchhandlung, 1939, gedruckt in der Offizin Haag-Drugulin, zu Leipzig, 1943. 240 p., plates, maps on lining papers. **Title tr.:** Captain Kraul tells a story. Twenty years as whaler under Argentinian, Russian and German flags in the Arctic and Antarctic.

A narrative of personal experiences as whaling captain, which, in addition to Antarctic regions includes: the northern Pacific, Sakhalin, Kamchatka and the Chukchi Sea in the service of Soviet Russia (1931-35) and a brief period under the German flag. The author gives a detailed account of the life, social and political, in a Soviet whaler and ashore; of his experiences with the Chukchis, and life and travel across Russia. This is followed by a description of whaling and utilization of whale products as practiced on a floating factory ship.

**Copy seen:** MnU.

**23444. KRAVCHENKO, PAVEL.** Vypusknik edet domoĭ. (Ogonek, Sept. 1952. t. 30, no. 37, p. 22-24, illus.) **Title tr.:** A graduate goes home.

Contains a popular account of the early experiences (from about 1935) of a Russian boy among Chukchi children at the school in Uelen on Bering Strait; life in school and in the local

kolkhoz; the boy's further education with the Komsomols and at a military school; his study in Leningrad at the Faculty of the North; Chukchi, Evenki (Tungus) and other students from the North and their friends; their educational and cultural work in the native languages; return to the Chukotsk Peninsula as teachers, engineers, etc.

**Copy seen:** DLC.

**23445. KRAVT'SOV, V. A.** Goriŭchie istochniki i polupogashie vulkany, kak ėnergeticheskie resursy DVK. (Akademiĭa nauk SSSR. Dal'nevostochnyi filial. Vladivostok. Vestnik, 1933, no. 1-2-3, p. 133-35). **Title tr.:** Hot springs and semi-active volcanoes as sources of energy of the Far Eastern District.

Contains data on hot springs and semi-active volcanoes of the Kamchatka Peninsula and a discussion of the possibilities of utilizing them as a source of energy, with some mathematical calculations.

**Copy seen:** DLC; MH-A.

**KREGEL, L. A.**, see Muirhead, E. E., & others. Experimental freezing shock changes body fluids & tissues. 1942. No. 24534.

**23446. KREPS, G. M.** Materialy k rastitel'nosti landshaftov rāona ozera Imandry. Murmansk, 1929. 26 p. 2 plates. (Leningradskoe obshchestvo estestvoispytatelei. Murmanskāa biologicheskāa stantsiĭa. Raboty, t. 3, no. [11]) **Title tr.:** Materials on the vegetation of the landscapes in the region of Lake Imandra.

The author offers an analysis of the vegetation of four main "landscapes": (1) the water vegetation, (2) the overmoist depressions, (3) the undulating plains covered with coniferous trees, and (4) the mountain vegetation. Lists of plants making up these four landscapes (and some minor ones) are presented. The predominant type 3 is analyzed in detail. Bibliographical footnotes. Summary in German.

**Copy seen:** DLC.

**23447. KREPS, GERMAN.** Oleni. (Karelo-Murmanskiĭ kraĭ, 1934. v. 12, no. 7-8, p. 21-25, illus.) **Title tr.:** Reindeer.

Contains a detailed account of the natural history and behavior of "wild" and domesticated reindeer, management of herds, domestication and use as work animals.

**Copy seen:** DLC.

**23448. KREUTZ, W.** Bodenrost. (Umschau, Jan. 15, 1950. Jahrg. 50, p. 46-47, diagsr.) *Title tr.:* Ground frost.

General discussion, briefly reporting on the influence of air temperature, type of soil and snow cover upon depth of ground frost, and on its rate of penetration and thawing. "Frost penetration in sand occurs 1.5 times as fast as in humus soil and penetrates more than twice as deep. The presence of a snow cover limits the speed and depth of frost penetration."—SIPRE.

*Copy seen:* DLC.

**23449. KREYBERG, LEIV.** Tissue damage due to cold. (Lancet, Mar. 9, 1946. v. 250, p. 338-40)

Contains a review and discussion (by officer of Royal Norwegian Medical Corps and professor of pathology at Univ. of Oslo) of effects of progressive exposure to cold with special reference to development of necrosis. Three types of pathological reaction are described: (1) after short exposure to moderate cold, (2) after long exposure to moderate cold not involving freezing to ice, (3) after freezing to ice and return to normal temperature. Acute, aseptic inflammation is considered the underlying cause of all types of pathological reaction. Treatment is outlined. Bibliography (over 10 items).

*Copy seen:* DLC.

**KRIETE, H.,** see *Polar record*. German sealing expd. E. Greenland 1950. 1951. No. 25153.

**23450. KRINOV, E. L.** Spektral'naia otrazhatel'naia sposobnost' prirodnykh obrazovanii. Moscow, Akademiia nauk, 1947. 270 p. 177 fig., 15 tables, append. 70 p., tables. *Title tr.:* Spectral reflective properties of natural surfaces.

"Results of 370 spectrophotometric measurements of albedo of all possible types of natural surfaces are analyzed with basic data listed and curves of intensity in wave lengths from .4-.9 $\mu$  for each observation systematically presented. Among the types of surface covered are forest (birch, oak, fir, willow, linden, pine, elm, larch), grasses, tundra, orchards, gardens, snow cover, buildings, etc. Not only are various types of each of the above surfaces analyzed, but variation in each type, according to season, homogeneity, stage development, etc. are treated separately. The textual section treats of the theory of spectro-

photometry, methods of observation, details of instrumentation for use in aerial photography of albedo and methods of compiling data. Spectrophotometric observations were made in nine regions of the European U.S.S.R. from Arctic to subtropics (including tundra, taiga, chernozem, forested steppe, steppe, desert and mountain areas) between 1932 and 1942. . . . Not only does it enable the calculation of the albedo of the earth from a knowledge of astronomical and vegetative factors, but would facilitate the selection of proper filters for aerial photography. Cloud albedo is not, however, considered."—*Meteorological abstracts and bibliography*, Mar. 1952. v. 3, p. 217. Bibliography (45 items).

*Copy seen:* DLC.

**23451. KRISHTOFOVICH, AFRIKAN NIKOLAEVICH, 1885-** . Botaniko-geograficheskaiia zonal'nost' i etapy razvitiia flory verkhnego paleozoia. (Akademiia nauk SSSR. Izvestiia. Seriiia geologicheskaiia, 1937, no. 3, p. 383-404, text maps) *Title tr.:* Phytogeographical zones and stages of evolution of the Upper Paleozoic flora.

Contains a study of zonal distribution of plant life at present and in the past, with data on phytogeographical zones in the Later Paleozoic: (1) Westfalian tropical zone of the *Pecopteris-Lepidodendron* flora, (2) Gondwana cold-temperate zone of *Glossopteris* flora in the Southern, and (3) Tungusian temperate zone of the *Psygmoxyllum-Noeggerathiopsis* flora in the Northern Hemisphere, which includes arctic regions. Summary in English, p. 401-404. *Copy seen:* DLC; MH.

**23452. KRISHTOFOVICH, AFRIKAN NIKOLAEVICH, 1885-** . Evoliutsiia rastiitel'nogo pokrova v geologicheskoi proshlom i ee osnovnye faktory. (Akademiia nauk SSSR. Botanicheskii institut. Materialy po istorii flory i rastiitel'nosti SSSR, 1946, vyp. 2, p. 21-86) *Title tr.:* Evolution of the vegetation through the ages and its principal factors.

Contains a study of vegetation in relation to geological changes, including data on essential characteristics of polychromatic floras and their significance, principal features of the alteration of the floras in the past, analyses of the differentiation of successive floras; fundamental factors of plant evolution, and the importance of the role of morphological evolution in the development of the vegetative cover. This broad study deals with the history

of the vegetation throughout the world, including all arctic regions. Summary in English, p. 82-86.

**Copy seen:** MH-A.

**23453. KRISHTOFOVICH, AFRIKAN NIKOLAEVICH, 1885-** Verkhnedevonskie rasteniia iz severo-vostochnoi chasti Lovozerskikh tundr Kol'skogo polostrova. (Akademiia nauk SSSR. Izvestiia. Seriiia geologicheskaiia, 1937, no. 4, p. 693-99, illus.) **Title tr.:** Upper Devonian plants of the northeastern part of Lovozero Tundra, Kola Peninsula.

Contains descriptions of three plant impressions secured in 1935 and 1936; the plants are identified by the author as: *Pygmyphyllum* cf. *williamsonii*, *Archaeopteris* sp. and *Rhachiopteris* sp. proving the Upper Devonian age of the rocks comprising the florula. Includes a geological introduction by N. A. Eliseev, p. 693-94. Summary in English.

**Copy seen:** DLC; MH.

**23454. KRISHTOFOVICH, L. V.** On the Brachiopoda from the Tertiary sediments of the western coast of Kamchatka. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1936. nouv. ser., v. 3 (12), no. 1 (96), p. 33-35) **Copy seen:** DLC.

**23455. KRISTOFFERSEN, SIGFRED.** Fugle-observasjoner fra Sydkapp på Svalbard (76°30' n. br. 16°30' østl. l.), 1929-1930. (Norsk ornithologisk tidsskrift, 1930. ser. 3, nr. 11-12, p. 248-57, illus.) **Title tr.:** Bird observations from South Cape, Svalbard (76°30' N., 16°30' E.), 1929-1930.

Notes on 29 species of which 18 were breeding; a new breeding record for the sea gull *Larus marinus*. **Copy seen:** DI.

**23456. KRISTOFFERSEN, SIGFRED.** Iakttagelser over fuglelivet ved Hornsund, Svalbard, fra høsten 1923 til våren 1924. (Norsk ornithologisk tidsskrift, 1926. ser. 2, nr. 7, p. 181-95) **Title tr.:** Observations on bird life near Hornsund, Svalbard, from the fall of 1923 to the spring of 1924.

Full field notes on the seasonal occurrence of 29 species including the eider duck, several geese, and ptarmigan.

**Copy seen:** DI.

**KRITZLER, ROBERT A.,** see Friedman, N. B., & R. A. Kritzler. Pathology of high-altitude frostbite. 1947. No. 21950.

**23457. KROG, HILDUR.** Microchemical studies on *Parmelia*. (Nytt magasin

for naturvidenskapene, 1951. Bd. 88, p. 57-85, illus.)

Contains the results of microchemical investigation of the Norwegian *parmelias* by means of Asahina's method, with a discussion of the method, also the difficulties and uncertainties in the investigation of the lichen acids; the material used in the study included *P. alpicola* from Finnmark, northern Norway.

**Copy seen:** DGS; MH-Z.

**23458. KROGERUS, HARRY.** Die finnischen *Apotomis*-Arten. (Lep. Tortricidae). (Notulae entomologicae, 1945, pub. 1946, v. 25, no. 4, p. 137-52, illus.) **Title tr.:** Finnish *Apotomis* species.

Contains a critical revision of Finnish species of lepidopterous genus *Apotomis*, with a table for the determination of the species and descriptive notes on 12 species, including a diagnosis of *A. algidana* n. sp. inhabiting coniferous forests and *Betula nana* moors in the Kuusamo and Petsamo regions, *A. fraterculana* from Enontekis and Petsamo regions, *A. sororculana boreana* n. form. occurring in Kuusamo and northern Lapland and 6 other species native to northern regions.

**Copy seen:** DLC; MH-Z.

**23459. KROGERUS, HARRY.** [Intressantare macrolepidopterologisk fynd in Kuusamo och Salla]. (Notulae entomologicae, 1935. v. 15, no. 4, p. 117) **Title tr.:** Interesting finds of Macrolepidoptera in Kuusamo and Salla.

Contains a report (without a formal title) of the finds of 14 rare or otherwise interesting large lepidoptera in Kuusamo and Salla regions, northern Finland.

**Copy seen:** DLC; MH-Z.

**23460. KROGERUS, HARRY.** Lepidopterologiska studier i södra Petsamo. (Notulae entomologicae, 1943. v. 23, no. 1-2, p. 19-43, illus., diagrs., text map) **Title tr.:** Study of Lepidoptera in southern Petsamo.

Contains a physical and geographic sketch of the region explored, a study of various biotopes in its Lepidoptera fauna, with lists of typical forms for each biotope and a list of about 200 lepidoptera found in the region.

**Copy seen:** DLC; MH-Z.

**23461. KROGERUS, HARRY.** Mamestra (*Anartodes*) *lamula* Herz subsp. *rangnowi* Püng., funnen inom Finlands politiska område. (Notulae entomologicae 1936. v. 16, no. 1, p. 28) **Title**

*tr.: Mamestra (Anartodes) lamuta* Herz subsp. *rangnowi* Püng. found within the political borders of Finland.

*Contains* a brief report on a noctuid, *Mamestra (Anartodes) lamuta* subsp. *rangnowi*, first described from Siberia, later found in Lule Lappmark, Swedish Lapland, and in Kola Peninsula, and finally near Paanajarvi, Kuusamo, northern Finland. *Copy seen:* DLC; MH-Z.

**23462. KROGERUS, HARRY.** *Tortrix illustrana* n. sp. eine neue Tortricide aus Nord-Finnland. (Notulae entomologicae, 1936. v. 16, no. 1, p. 24-25, illus.) *Title tr.:* *Tortrix illustrana*, a new tortricid from northern Finland.

*Contains* a diagnosis of a new moth, *Tortrix illustrana* n. sp., found by the author in 1935 near Liikasenvaara, Kuusamo region (66°15' N.).

*Copy seen:* DLC; MH-Z.

**23463. KROGERUS, HARRY.** Über *Argyroploce noricana* H.-S. und *A. dovreana* Barca. (Notulae entomologicae, 1938. v. 18, no. 2, p. 62-64, illus.) *Title tr.:* On *Argyroploce noricana* H.-S. and *A. dovreana* Barca.

*Contains* taxonomic notes on two lepidopters, *Argyroploce noricana* H.-S. and *A. dovreana*, the latter native to Petsamo region in Finnish Lapland.

*Copy seen:* DLC; MH-Z.

**23464. KROGERUS, HARRY.** Zwei neue Kleinschmetterlinge aus Fennoskandien. (Notulae entomologicae, 1947. v. 27, no. 1, p. 4-8, illus.) *Title tr.:* Two new small lepidopters from Fennoscandia.

*Contains* a diagnosis of *Blastobasis obsoletella* n. sp. collected by H. Willamo in Rovaniemi, northern Ostrobothnia, on June 20, 1937.

*Copy seen:* DLC; MH-Z.

**23465. KROGERUS, ROLF, 1882-** Coleopterologiska notiser. (Notulae entomologicae, 1934. v. 14, no. 4, p. 127-28) *Title tr.:* Notes on Coleoptera.

*Contains* observations on two genera of beetles usually found together, with a list of six species of *Bledius* encountered in Paanajarvi, Kuusamo region, and accompanying species of *Dyschirius*.

*Copy seen:* DLC; MH-Z.

**23466. KROGERUS, ROLF, 1882-** Parasitsteklar från torvmarkerna i Kuusamo-området. (Notulae entomologicae, 1938. v. 18, no. 3, p. 105-108) *Title tr.:* Parasitic hymenopters from peat bogs of the Kuusamo region.

*Contains* a systematic list of about 70 parasitic ichneumon flies (Ichneumonidae) and five species of Braconidae, occurring in peat bogs of the Kuusamo region, including 24 species new to the fauna of Finland.

*Copy seen:* DLC; MH-Z.

**23467. KROGERUS, ROLF, 1882-** Studien über *Catops* Arten, I. Die *Catops*-Arten Fennoscandiens und Danemarks. (Notulae entomologicae, 1931. v. 11, no. 1, p. 1-25, illus.) *Title tr.:* Studies of *Catops* species, I. *Catops* species of Fennoscandia and Denmark.

*Contains* critical notes on the 12 most interesting species of coleopterous genus *Catops* from various collections studied by the author, a key for the determinations of Fennoscandian and Danish species and an enumeration of 22 species (two described as new) with synonymy and data on distribution in Fennoscandia, Kola Peninsula and Denmark; includes ten species native to northern regions; bibliography (32 items).

*Copy seen:* DLC; MH-Z.

**23468. KROGERUS, ROLF, 1882-** Studien über *Choleva*-Arten, I-II. (Notulae entomologicae, 1926. v. 6, no. 1, p. 1-9, illus.; 1927. v. 7, no. 1, p. 1-7, illus.) *Title tr.:* Studies on *Choleva* species, I-II.

*Contains* in pt. I a critical revision of coleopterous genus *Choleva* of Finland with a synopsis of the species (male and female), a description of *C. aquilonia* n. sp. found in Tuloma region, Russian Lapland, and critical notes on six other species. In pt. II are data on the biology and life history of *C. aquilonia*.

*Copy seen:* DLC; MH-Z.

**23469. KROGERUS, ROLF, 1882-** Über *Nivellia extensa* Gebl. und *Nivellia sanguinosa* Gyll. (Notulae entomologicae, 1936. v. 16, no. 1, p. 21-23, illus.) *Title tr.:* On *Nivellia extensa* Gebl. and *N. sanguinosa* Gyll.

*Contains* a comparative taxonomic study of two closely related beetles, *Nivellia extensa* and *N. sanguinosa*, based on the investigation of several specimens (male and female) of the first species found by the author in Salla, Kuusamo Finland.

*Copy seen:* DLC; MH-Z.

**23470. KROGERUS, ROLF, 1882-** Zur Kenntnis der nordischen *Simplocaria*-Arten. (Col.). (Notulae entomologicae, 1921. Årg. 1, häft. 1, p. 12-13) *Title tr.:*

A contribution to the knowledge of northern *Simplocaria* species (Col.).

Contains a German diagnosis of a new beetle, *Simplocaria frigida* n. sp. found by the author Aug. 18, 1905 in the Inari region of Finnish Lapland, together with another species, *S. arctica*, new to the fauna of Finland.

**Copy seen:** DLC; MH-Z.

**23471. KROGERUS, ROLF, 1882-** . Zwei neue Diptera Polyneura aus Finnland. (Notulae entomologicae 1937. v. 17, no. 2, p. 57-59, illus.) **Title tr.:** Two new Diptera Polyneura from Finland.

Contains descriptions and critical notes on two dipters, *Limnophila umbrarum* n. sp. native to Kuusamo region, northern Finland, and *Cylindrotoma distinctissima tenebrarum* n. ssp. occurring in Finnish and Russian Lapland.

**Copy seen:** DLC; MH-Z.

**23472. KROGH-LUND, G.** Les chiens de traîneau, propagateurs de la fièvre typhoïde au Groenland. (Société de Biologie, Paris. Comptes rendus, 1930. v. 103, p. 615-18) **Title tr.:** Sledgedogs, spreaders of typhoid fever in Greenland.

According to the author, dogs in northern Greenland devour human feces. As one often finds healthy carriers of typhoid bacilli among the population, the question arose whether this habit of the dogs may not make them spread the germs. Feeding experiments on 12 Greenland dogs, showed that the germs taken up with human feces multiply or survive in the dogs' organism and are voided. This demonstrates that the disease may be spread by the dogs even over large areas.

**Copy seen:** DSG.

**23473. KROGIUS, F. V.** Predvaritel'nyi otechet o rabote ekspeditsii na Umbozero i ozere Imandra letom 1930 g. (Leninograd. Vsesoiuznyi nauchno-issledovatel'skii institut ozer'nogo i rechnogo rybnogo khoz'istva. Izvestiia, 1931. t. 13, no. 1, p. 45-61) **Title tr.:** Preliminary report on work of the expedition to Umbozero and Lake Imandra in the summer of 1930.

Contains the results of a biological and ichthyological study of these lakes in Kola Peninsula, by the expedition led by the author and sponsored by the Leningrad Scientific Research Institute of Ichthyology. The physical geography of the region, its hydrology, biology (plankton and benthos) are described; and ichthyological notes given on nine species

of fishes found in both lakes, with a discussion of how to increase the productivity of the lakes, tables on p. 57-59.

**Copy seen:** MH-Z.

**KROGIUS, F. V.,** see also Krokhin, E. M., & F. V. Krogius. Lake form of *Oncorhynchus nerka*. 1936. No. 23486.

**23474. KROHN, ILMARI.** Melodien der Permian. (Suomalais-ugrilainen seura Toimituksia, 1928. no. 58, p. 89-95)

**Title tr.:** Permian melodies.

Contains a survey of the collecting of Permian melodies, and an analysis of Robert Lach's work *Gesänge russischer Kriegsgefangener, 1, Finnisch-ugrische Völker, 1, Wotjakische, Syrjänische und Permiakische Gesänge*, 1926, q. v. The Zyryan melodies are of a recitative character and their most common form is the diatonic melody.

**Copy seen:** DLC; InU.

**23475. KROHN, JULIUS, 1835-1888.** Lappalaisten muinainen kauppaamistapa. (Suomalais-ugrilainen seura. Aikakauskirja, 1888. 3 p., 124-25) **Title tr.:** The old trading custom of Lapps.

The 15th century traveler Herberstein, and before him Alessandro Guagnino stated in their narratives that the Lapps (like other Finnish nations) do not like to speak to foreigners, but put their merchandise in an intermediate place whither the foreigners then come and a silent exchange is practiced.

**Copy seen:** DLC; InU.

**23476. KROHN, JULIUS, 1835-1888.** Personallinen passivi Lapin kielessä. (Suomalais-ugrilainen seura. Aikakauskirja, 1886. v. 1, p. 71-72) **Title tr.:** Personal passive in Lapp.

A notice that a personal passive appears not only in the Finnish translations of Agricola and in the Võro dialect of Estonian (as stated by Ahlqvist) but also in Lapp.

**Copy seen:** DLC; InU.

**23477. KROHN, KAARLE, 1863-1933.** Ancestor-worship and cult of the dead, Ugro-Finnic. (In: Hastings, James, ed. Encyclopaedia of religion and ethics, 1908, v. 1, p. 467)

Contains a short article in which the author makes the following statement: "Cult of dead is . . . the oldest form of religion among the Ugro-Finnic peoples. It is almost the only form common to them all."

**Copy seen:** DLC; InU.

**23478. KROHN, KAARLE, 1863-1933.** Bär (Wolf) and Fuchs. Eine nordische Tiermärchenkette. Aus dem finnischen übersetzt von O. Hackman. (Suomalais-ugrilainen seura. Aikakauskirja, 1889. v. 6, p. 1-123) *Title tr.:* Bear (wolf), and fox. A nordic chain of animal tales. Translated from Finnish by O. Hackman.

Data mainly from Sweden, Lapland, Finland, Great Russia, and France are offered. The principal conclusion is that for at least a thousand years, a nordic circle of animal tales has existed, distinct from the southern one.

*Copy seen:* DLC; InU.

**23479. KROHN, KAARLE, 1863-1933.** Birth, Finns and Lapps. (*In:* Hastings, James, ed. Encyclopaedia of religion and ethics, 1910, v. 2, p. 647-84)

The most important rites connected with birth are the purification ceremonies, a certain form of secular baptism. If the Lappish child fell sick, it was re-baptized and given a new name. This might be repeated again and again in case of sickness, even in later years. A detailed description of re-baptism ceremonies is presented; and influence of Christian ritual is noted.

*Copy seen:* DLC; InU.

**23480. KROHN, KAARLE, 1863-1933.** Finno-Ugrians. (*In:* Hastings, James, ed. Encyclopaedia of religion and ethics, 1914, v. 6, p. 22-23)

Contains a general description of this numerous people of many tribal and national groups, sketch of their linguistic affinities, original homeland and later dissemination; literature on mythology.

*Copy seen:* DLC; InU.

**23481. KROHN, KAARLE, 1863-1933.** Finns, ancient. (*In:* Hastings, James, ed. Encyclopaedia of religion and ethics, 1916, v. 6, p. 23-26)

Contains an introductory statement on the sources followed by an account of the worship of the dead, household, forest and water spirits, the thunder god and other agricultural deities, deities of the air and sky, sacrifices and magic.

*Copy seen:* DLC; InU.

**23482. KROHN, KAARLE, 1863-1933.** K. F. Karjalainen. Helsinki, Suomalainen Tiedekatemia, 1921. 14 p. (Folklore Fellows Communications, no. 40)

Contains tribute (in German) to the Finnish linguist and anthropologist Kus-

taa (Gustav) Fredrik Karjalainen (1871-1919), with account of his life and studies of primitive Finno-Ugric language and religion, particularly his investigations of the Ostyaks and Voguls of Tobolsk government 1898-1903, the published results of which (*Die Religion der Jugra-Völker*, q. v.) this tribute accompanies. Karjalainen's "comparative-geographic" method, and his intellectual relationship to M. A. Castrén are noted.

*Copy seen:* DLC; InU.

**23483. KROHN, KAARLE, 1863-1933.** Ueber Ortsnamen in den Gesängen des archangelschen Karelien, I-III. (Finnisch-ugrische Forschungen, 1923-24. Bd. 16. p. 1-45) *Title tr.:* On place names in the songs of Arkhangel'sk Karelia, I-III.

Geographical names from western and southern Finland are mentioned in the songs recorded in the northern part of Karelia; on the other hand, northern names rarely occur in these songs. Author concluded that these songs originated in western Finland and later traveled to Karelia. Lapland is called Lappi, or Turja, and the last name indicates the eastern part of the Kola Peninsula.

*Copy seen:* DLC; InU.

**23484. KROHN, KAARLE, 1863-1933.** Zur finnischen Mythologie, I. Helsinki, Suomalainen Tiedekatemia, 1932. 80 p. 4 facsim. (Folklore Fellows Communications, no. 104) *Title tr.:* On Finnish mythology, I.

Contains a brief introductory survey of Finno-Ugric mythology in general, followed by discussion mainly, of the Finnish deities recorded by Agricola in 1551. Includes remarks on the most primitive religion as that of the Ostyaks and Voguls (p. 3); the Finnish word for God, Jumala, noted as early as A. D. 1026, from the inhabitants of the White (Ice) Sea coast (p. 6); the arctic cult of the bear developed from the cult of dead (p. 13); the importance of Castrén's mythological studies (p. 18); the Lapp Ravnda compared to the Finnish Rauni, Ukko's wife (p. 41); plenty of rowan berries as indication of a good year for reindeer among the Lapps (p. 46); the worship of the rowan tree, *raudna*, among the Finnish Lapps which lasted until the 19th century; the god Ilmarinen as a wind deity pictured on a drum of the Finnish Lapps as late as 1692 (p. 74), etc.

*Copy seen:* InU.

**23485. KROHN, VAINO.** *Paeonia anomala* L. Kuollan Lapissa. Terra, 1924. v. 36, no. 2-3, p. 227-32, illus., map) **Title tr.:** *Paeonia anomala* L. in Kola Lapland.

Contains record of previous finds of *Paeonia anomala* L. *typica* a flowering plant scarce except in Kola Peninsula; note of about 50 associated plants, and description of its habitat in Kola Lapland.

**Copy seen:** DLC.

**23486. KROKHIN, E. M., and F. V. KROGIUS.** The lake form of *Oncorhynchus nerka* from Lake Kronotsk, Kamchatka. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1936. nouv. ser., v. 4 (13), no. 2 (106), p. 89-92, tables, graphs)

The morphology, ecology, rate of growth, etc., of this salmonid, are presented.

**Copy seen:** DLC.

**KROMBEIN, KARL V.,** see Muesebeck, C. F. W., & others. Hymenoptera synoptic catalog. 1951. No. 24533.

**23487. KROTKOV, F. G.** O profilaktike otmorozhenii. (Voenno-sanitarnoe delo, 1943, no. 1, p. 65-71) **Title tr.:** On the prevention of cold injury.

Contains a discussion of: proper clothing, footwear and hygiene of feet in the army; supply of (hot) food; proper construction and heating of tents, huts, dug-outs, etc.; pocket heaters and their use.

**Copy seen:** DLC.

**23488. KROTKOV, F. G.** Preduprezhdenie otmorozhenii v voiskakh. (Voenno-sanitarnoe delo, 1943, no. 11-12, p. 61-67) **Title tr.:** Prevention of frostbite among the troops.

Contains a general account dealing with Russian army directives on winter clothing, shoeing and care of feet; body areas most commonly affected by frostbite; personal care and hygiene; shelter and its heating; hot food; special precautions for snipers; chemical pocket heaters; belly-bands.

**Copy seen:** DLC.

**KRÜGER, FR.,** see Thienemann, A., & F. Krüger. *Orthocladus abiskoensis*, u. *rubicundus*. 1937. No. 26667.

**23489. KRUPIN, A. S.** Sanitarnyi ocherk ekspeditsionnogo plavaniia gidrograficheskogo sudna "Tatmyr" k drevnfushchefs stanitsii "Severnyi polius". (Voenno-morskaya meditsinskaya akademiia. Trudy, 1941. v. 1, p. 276-302). **Title tr.:** Sanitary sketch of the expeditionary

trip of the hydrographic vessel *Tatmyr* to the drifting station "The North Pole".

Contains an account of the history and exploits of the *Tatmyr* and of the plans how to remove crew and station from the drifting ice-floe. **Outline of the preparations:** (1) selection of equipment; (2) fitting of quarters; (3) loading of provisions, expeditionary equipment and fresh water; (4) receipt of the expedition's medico-sanitary supplies for the equipment of a ship's hospital; and (5) conclusions from the preparatory phase. **Description of the voyage:** (1) general problems of sanitary precautions and measures; (2) sanitation work connected with the equipment of ice-aerodromes; (3) making safe the diving work from the ice-floe; (4) making safe the airplane flights; and (5) the *Tatmyr's* meeting with the Papanin party which had been drifting on the ice-floe station from the vicinity of the North Pole to 70°54' N., 19°48' E. during the period May 1937-Feb. 1938.

**Copy seen:** DLC.

**KRUSEN, FRANK H.,** see Quintanilla, R., & others. Studies on frost-bite treatment & effect blood vessels. 1947. No. 25318.

**23490. KRUSE, CHRISTIAN, 1867-** Jan Mayens kårplanter. (Botanisk tidskrift, 1902. Bd. 24, hefte 3, p. 297-302) **Title tr.:** Vascular plants of Jan Mayen.

Contains a list of 39 species of vascular plants collected by the author on Jan Mayen as the member of the Danish Ship Expedition to the East Coast of Greenland in 1900 (a part of the Carlsberg Fund Expedition 1898-1900); with brief notes on habitat and local distribution.

**Copy seen:** DA; MH-A.

**KRUSE, CHRISTIAN, 1867-** , see also Jónsson, H. Marine algae of Jan Mayen. 1905. No. 23024.

**23491. KRUZENSHTERN, IVAN FEDOROVICH, 1770-1846.** Sur les îles récemment découvertes dans l'Océan Glacial Arctique. (Journal des voyages, découvertes et navigations modernes, 1819. t. 1, p. 346-58) **Title tr.:** On the islands recently discovered in the Arctic Ocean.

Translation of his *Ueber die im Eismeere unlängst entdeckten Inseln*, 1818, q. v.

**Copy seen:** DLC.

**23492. KRUZENSHTERN, IVAN FEDOROVICH, 1770-1846.** Ueber die im Eismeere unlängst entdeckten Inseln.

(Neue allgemeine geographische Ephe-  
meriden, 1818. Bd. 3, p. 22-34) **Title**  
**tr.:** On the islands recently discovered  
in the Arctic Ocean.

Review of 17th and 18th century ex-  
ploration along the Siberian arctic coast,  
and the early 19th century discovery of  
islands in the New Siberian group; with  
discussion of the need for more accurate  
mapping of the Siberian coast. Issued  
also in French with title: *Sur les îles*  
*récemment découvertes dans l'Océan Glacial*  
*Arctique*, 1819, q. v. **Copy seen:** DLC.

**KRUZENSHTERN, P. I.**, see Pinkhenson,  
D. M. Neopublikovannyi proekt. 1961.  
No. 25097.

**23493. KRYLOV, G.** Lesa kommuni-  
zma. (Sibirskie ogni, Nov.-Dec. 1952.  
v. 31, no. 6, p. 155-62) **Title tr.:** The  
forests of communism.

**Contains** a general report on forests  
and forestry in the Soviet Union and  
their gains within the five-year plans;  
with sections on: new plantings, forest  
protection stations, Siberian forests of  
the arctic zone, more southern forests of  
Siberia, planned large-scale forest planting  
in Siberia, forest research, afforestation  
in the Arctic, and in mountain areas, etc.  
Bibliographical footnotes.

**Copy seen:** DLC.

**23494. KRYZHANOVSKIĬ, V. I.** Polez-  
nye iskopaemye i oborona strany.  
(Akademiia nauk SSSR. Izvestiia. Seriiā  
geologicheskaiā 1941, no. 6, p. 3-8)  
**Title tr.:** Ores and the country's  
defense.

**Contains** a survey of the metal and  
mineral ore resources of the U.S.S.R.  
important to the defense industry, with  
data on nickel deposits on Kola Penin-  
sula (Moncha Tundra) and in the Yenisey  
River region (Noril'sk); tin ores are also  
found in Kazakhstan, Indigirka and  
Kolyma River regions and on Chukotsk  
Peninsula; apatite, nepheline and cyanite  
on Kola Peninsula; vanadium in North-  
ern Urals and Kola; many other less  
important deposits of metals and minerals  
are recorded. **Copy seen:** MH.

**23495. KUBLITSKIĬ, G.** Enisei, reka  
sibirskaiā. Moskva, Leningrad, 1949.  
288 p., illus., maps. **Title tr.:** The  
Yenisey, a Siberian river.

**Book** for older children. Author  
follows the river giving geographic,  
historical, ethnographic and nature de-

scriptions. Advances in industry, com-  
munications, etc., are stressed.

**Copy seen:** DLC.

**KUCHERUK, VALENTIN V.**, see Du-  
naeva, T. N., & V. V. Kucheruk. Materi-  
aly po ekologii. 1941. No. 21565.

**23496. KUCYNIAC, JAMES.** *Timmia*  
*austriaca* in Quebec. (Bryologist, Sept.  
1952. v. 55, no. 3, p. 210-15, map)

**Contains** an account on the geographi-  
cal distribution of this widely occurring  
moss, especially as regards North Amer-  
ica. Its presence is traced on the Hudson  
Strait of Northern Quebec and on some  
islands of Hudson Bay. Bibliography  
(14 items).

**Copy seen:** DLC.

**23497. KUDELIN, N. V.** Nakhozh-  
denie gidroida *Acaulis primarius* Stimp-  
son v Biełom morie. (Akademiia nauk  
SSSR. Zoologicheskii muzei. Ezhegod-  
nik, 1913. t. 18, no. 8, p. kii) **Title tr.:**  
The finding of the hydroid *Acaulis*  
*primarius* Stimpson in the White Sea.

**Contains** a list of 16 hydroids collected  
in 1912 by A. I. Aleksandrov in Kan-  
dalaksha Bay, White Sea, including  
*Acaulis primarius*, and *Thuiaria carica*,  
two species new to White Sea fauna;  
the first coelenterate is also known from  
Lofoten Islands; northern Norway.

**Copy seen:** DLC; MH-Z.

**23498. KUDELIN, N. V.** O raspro-  
straneniĭ priěsnovodnykh gidr v predel-  
akh Rossii. (Akademiia nauk SSSR.  
Zoologicheskii muzei. Ezhegodnik, 1915.  
t. 20, no. 1, p. 137-48) **Title tr.:** On  
the geographic distribution of fresh-  
water hydras within the borders of Russia.

**Contains** a geographic study based on  
literature data, with a table of distribu-  
tion in 14 regions; includes *Hydra*  
*oligactis* occurring in Solovetskiye Islands.

**Copy seen:** DLC; MH-Z.

**KUDRIĀSHEV, L. V.**, see Kaṭs, N. Ā., &  
others. O torfianikakh Sev. Dviny.  
1935. No. 23163.

**23499. KUDRIĀVTSEV, A. S.** Ocherki  
istorii dorozhnogo stroitel'stva v SSSR;  
dooktābr'skii period. Moskva, Dorizdat,  
1941. 332 p. illus., maps (incl. 1 fold.),  
diags. **Title tr.:** Essays on the  
history of road construction in the  
U.S.S.R.; pre-Revolutionary period.

**Contains** a study on roads, road  
construction and means of transporta-  
tion, in three parts; (1) from earliest  
times till the period of feudalism (p.

11-54); (2) the period of feudalism (p. 57-132); (3) the period of capitalism (p. 135-286). Part 1 includes occasional references to winter transportation; pt. 2, information, plans, etc., regarding conditions in northern European Russia during the 16th and 17th century (p. 78-105) with Moscow as center of transportation, and road-building in the 18th century (p. 105-132) including arctic Siberia. The third part, covering the period 1801-1917, has numerous references to arctic areas and conditions, including mechanical road maintenance and construction. This volume contains also information on subjects connected with roads, as: road signs, railway stations, toll houses, etc. Bibliographical and other notes (p. 290-331). A second volume is noted (p. 4) to be in preparation.

**Copy seen:** DLC.

**23500. KUFTIN, B. A.** Spisok naibolee malochislennykh narodnostei SSSR. (Antropologicheskii zhurnal, 1926. t. 14, vyp. 3-4, p. 91-93) **Title tr.:** A list of the most scarce peoples of the U. S. S. R.

**Contains** apparently recent statistics from unidentified sources on Eskimos: 1,500; Chukcheis: 12,000; Koryaks: 7,500; Kamchadals: 2,000; Yukaghirs: 1,500; Chuvantzy: 350; Gilyaks: 4,500; Yeniseians: 1,000; Tungus: 64,000; Yurak-Samoyeds: 5,000; Tawgis-Samoyeds: 1,500; Ostyak-Samoyeds: 6,000; Ostyaks: 19,000; Voguls: 9,500; and Lapps less than 2,000.

**Copy seen:** DSI.

**KUHN, HEINRICH**, *see* Büttner, K., & H. Kuhn. *Climates German theaters of operation.* 1950. No. 21006.

**KULBYSHEV, VALERIAN VLADIMIROVICH, 1888-1935**, *see* Molotov, V. M., & V. Kulbyshev. O vtoroi piatiletke doklady na XVII konferentsii. 1932. No. 24432.

**23501. KUITUNEN-EKBAUM, E., and Z. W. FLEMING.** A note on trichinosis in dogs of the Canadian North. (Canadian journal of public health, Dec. 1949. v. 40, no. 12, p. 514-15)

**Contains** a report on examination of diaphragm muscle of four dogs from the Northwest Territories and the province of Quebec. Two of the dogs were infected by *Trichinella spiralis*. This note is preliminary to a more extensive study. Bibliography (4 items).

**Copy seen:** DSG.

**KUITUNEN-EKBAUM, E.**, *see also* Brown, M., & others. Parasitic infections Eskimos Igloodik. 1950. No. 20955.

**23502. KUJALA, VILJO VILHO, 1891-** A. Osw. Kairamo. (Terra, 1938. 50:4, p. 373-77, port.) **Title tr.:** A. Osw. Kairamo.

Sketch of the scientific work of the botanist, Alfred Oswald Kairamo, 1858-1938 (who changed his name, originally Kihlman, to its Finnish form Kairamo in 1906); his participation in numerous expeditions in Kola Peninsula and Lapland, and his contributions to plant biology of northern regions.

**Copy seen:** DLC.

**23503. KUJALA, VILJO VILHO, 1891-** Havaintoja Kuusamon ja sen eteläpuolisten kuusimetsäalueiden metsä- ja suotyypeistä. Helsinki, 1921. 65, 3 p., tables. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 4:5) **Title tr.:** Observations on swamp and forest types in the spruce forests of Kuusamo and the area south of it.

**Contains** data on forest types, vegetation, and swamp types of this region 65°-67°30' N. lat., and their occurrence in relation to each other. Some types and species native to the far North were encountered in southern parts of the area where the study was concentrated. Summary in German.

**Copy seen:** DLC.

**23504. KUJALA, VILJO VILHO, 1891-** Koivututkimuksia. Helsinki, 1946. 34 p., illus., tables, diagrs. (Helsingfors. Metsätieteellinen tutkimuslaitos, Julkaisuja, 34:1) **Title tr.:** Some recent research data on birches.

**Contains** cytological and strength test data on common birch and white birch, the latter being dominant in the marshes and birch regions of Lapland. Bibliography (20 items). Summary in English.

**Copy seen:** DLC.

**23505. KUJALA, VILJO VILHO, 1891-** Laskelmia lehtipuiden lehtikauden pituudesta ja puiden kukkimisajoista Suomessa. Helsinki, 1924. 50 p., tables, map, diagr. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 7:2) **Title tr.:** Determining the length of the leaf-bearing period and the flowering time of trees in Finland.

**Contains** review of earlier work and phenological data for birch, grey alder, aspen, European mountain ash, pine, spruce and the (European) bird cherry

trees in the northernmost areas of Finland; with comparative data on 12 climatically distinct areas of more southerly parts of the country. Summary in German. **Copy seen:** DLC.

**23506. KUJALA, VIILJO VILHO, 1891-** . Metsätyyppien parallelisuudesta esitelmä. Helsinki, 1938. 17 p. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 27:1) **Title tr.:** On the parallelisms of forest types.

**Contains** data on similarities between forest types as they occur in Finland and other countries, including the Pechora, Ob', and Lena River regions of U. S. S. R. as well as more southerly localities. Summary in German. **Copy seen:** DLC.

**23507. KUJALA, VIILJO VILHO, 1891-** . Suurriistan esiintymisestä Suomessa v. 1930. (Kiertokyselyyn perustuvien tietojen mukaan). (Luonnon tutkija, 1932. v. 36, no. 1, p. 15-20, illus., map) **Title tr.:** The distribution of large game in Finland in 1930.

**Contains** data on the distribution of bear (*Ursus arctos*) 1878-1930, and lynx (*Felis lynx*), the former inhabiting forest areas from Lake Ladoga northward to the arctic sea, common in the birch forests of Lapland and in summer frequently seen in the open fields; the lynx rare in the North. **Copy seen:** DLC.

**23508. KUJALA, VIILJO VILHO, 1891-** . Tervaleppä (*Alnus glutinosa* (L.) Gaertn.) Suomessa. Helsinki, 1924. 301 p., 36 illus. (incl. plates) map. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 7:1) **Title tr.:** Black alder (*Alnus glutinosa* (L.) Gaertn.) in Finland.

**Contains** data on the general distribution of alder which extends nearly to the Arctic Circle apparently only in Finland (where, in the vicinity of Rovaniemi, it occurs in an 0° C. isotherm area). Its forms and their occurrence in various types of environment, its natural renewal, phenology and structure are dealt with. The history is traced of the development of its habitat during the post-glacial epoch, and vegetation during that period discussed. Its distribution since the ice age and its occurrence and succession is outlined on the basis of studies of bogs and marshes. Bibliography (200 items). Summary in German, p. 273-98.

**Copy seen:** DLC.

**23509. KUJALA, VIILJO VILHO, 1891-** . Tutkimuksia keski- ja Poh-

jois-Suomen välisestä kasvillisuusrajasta. Helsinki, 1926. 95 p., illus., tables, map. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 22:4) **Title tr.:** Studies of the vegetation border between central and northern Finland.

**On** the basis of observation of 229 experimental plots, author gives data on the floristic and vegetation regions; plant and tree species and their areas, climatic factors, and forest types in central and northern Finland, including (in the North) districts of Kuusamo, Muonio, Enontekiö, Inari, Petsamo, and Sodankylä. He stresses the spreading and occurrence of the main vegetation types and the meeting of the southern and northern forest types at a natural boundary. Bibliography (25 items). Summary in German, p. 86-95. **Copy seen:** DLC.

**23510. KUJALA, VIILJO VILHO, 1891-** . Über die Kleinpilze der Kieferen in Finnland. Ascomycetes, Fungi imperfecti, Uredinales. Helsinki, 1950. 121 p. illus. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, v. 38, no. 4) **Title tr.:** On the fungi of Finnish conifers. Ascomycetes, Fungi Imperfecti, Uredinales.

**Contains** report on material collected by the author in 1944-47 and some from other sources. Only little known species are dealt with; microscopical examinations were made on the spot and material also checked for species identification by specialists; areas studied include northern Finland (Sodankylä). About 250 forms are described, many of them new to the area; descriptions include: earlier studies; substrate or host, damage to trees, morphology (including microscopic), occurrence, etc. Index (by: scientific names) of the forms studied and a bibliography (over 100 items) are appended. Summary in Finnish. **Copy seen:** DLC.

**23511. KUJALA, VIILJO VILHO, 1891-** . Untersuchungen über den Bau und die Keimfähigkeit von Kiefern und Fichtensamen in Finnland. Helsinki, 1927. 106 p., illus., 3 plates, diagr., tables, maps. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 12:6) **Title tr.:** Investigations on the structure and germination ability of pine and spruce seeds in Finland.

**Contains** chapters on summer temperature; size, weight, color and anatomy of seeds; quality of seeds as related to their anatomy; quality of seeds in different years; germination experiments. Bibli-

ography (35 items). Summary in Finnish.  
**Copy seen:** DLC.

**23512. KUJALA, VIILJO VILHO, 1891-** . Untersuchungen über den Einfluss von Waldbränden auf die Waldvegetation in Nord-Finnland. Helsinki, 1926. 41 p., 11 illus., 2 plates. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 10:5) **Title tr.:** Investigations on the influence of forest fires on the forest flora in northern Finland.

Contains description of methods and localities of investigation; the original flora and changes in it as a result of fires; effect of time elapsed since fire, etc. Summary in Finnish. **Copy seen:** DLC.

**23513. KUJALA, VIILJO VILHO, 1891-** . Untersuchungen über Waldtypen in Petsamo und in angrenzenden Teilen von Inari-Lappland. Helsinki, 1929. 125 p., incl. 52 illus., 6 plates, fold. map, tables, (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 13:9) **Title tr.:** Investigations on the forest types in Petsamo and the neighboring parts of Inari Lapland.

Contains sections on climate, geology, pedology of the region; vegetation areas and associations; vegetation of the coniferous forest; grouping for forestry purposes of the forest types studied. Bibliography (40 items). Summary in Finnish. **Copy seen:** DLC.

**23514. KUJALA, YRJÖ, 1884-1929.** Die anthropologische Untersuchung des finnischen Volkes. (Anthropologischer Anzeiger, 1925. Bd. 2, no. 3, p. 228-53, 17 illus., map) **Title tr.:** The anthropological investigation of the Finnish people.

Contains account of the racial structure of the recent Finns.

**Copy seen:** DSI-M; InU.

**KUJALA, YRJÖ, 1884-1929, see also** Levin, M. G. K antrop. finnov suomi i loparef. 1927. No. 23805.

**23515. KUKIN, N. N.** Lechenie otmorozenii v usloviakh evakogospitalef. (Vestnik khirurgii, Feb. 1941. t. 61, kn. 2, p. 276) **Title tr.:** Frostbite therapy under conditions of evacuation hospitals.

Contains summary of a paper read before the Second Conference on Local Anesthesia and Wound Therapy according to Methods of A. V. Vishnevskii (Moscow, Oct. 28-29, 1940). 300 patients were treated during a five-month period and 80 were closely studied; methods of

treatment for the more common and for severe cases, are presented.

**Copy seen:** DLC.

**KUKKÄMAKI, T. J., see** Hagman, N., & T. J. Kukkämäki. Variations catch of salmon & water levels. 1938. No. 22368.

**23516. KULAKOV, N. N.** Vvedenie v fiziku torfa. Pod redaktsiei M. P. Volarovicha. Moskva-Leningrad, Gosudarstvennoe energeticheskoe izd-vo, 1947. 228 p., diagrs. **Title tr.:** Introduction to the physics of peat, under the editorship of M. P. Volarovich.

Technical and scientific monograph, containing sections on the dispersive properties and other physical characteristics of peat; its mechanical properties (capillarity, permeability to water, consistency, etc.); its thermic properties and the physical principles of its drying process, including an analysis of several drying methods. An account of its electric properties and of roentgenological studies of peat completes the work. Bibliography (142 items).

**Copy seen:** DLC.

**23517. KULAKOV, Z. S.** Novoe v vulkanologii Kamchatki. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1936. no. 16, p. 97) **Title tr.:** Something new in the volcanology of Kamchatka.

Contains a brief summary of the author's study of the volcanoes Tolbachik, Zimin, Bol'shaya and Malaya Udina, near Kozyrevskaya Sopka on Kamchatka Peninsula, in the summer of 1935; the activity of Tolbachik, its origin and typology are discussed.

**Copy seen:** DLC; MH-A.

**23518. KULCZYŃSKI, WŁADISŁAW, 1854-** . Arachnoidea camtschadalia. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1926. t. 27, vyp. 1, p. 29-72, plates 2-3) **Title tr.:** Arachnoidea of the Kamchatka Peninsula.

Contains a systematic list of 77 arachnids of Kamchatka Peninsula, with localities, Latin diagnoses and critical notes on 22 new species; based mostly on the collections made in 1908-09 by the Kamchatka Expedition of F. P. Riabushinskii.

**Copy seen:** MH-Z.

**23519. KULESHOV, N. N.** The problem of germination in Siberia. (Akademiia nauk SSSR. Comptes rendus (Dok-

lady), 1946. nouv. ser., v. 51, no. 3, p. 237-40, tables)

Analysis of factors responsible for the time lapse between planting and germination; percentage of germination, etc., of cereals in the Omsk province steppe, forest-steppe and taiga regions is considered.

**Copy seen:** DLC.

**23520. KULESHOV, P. ĪA.** Kamchat-skil morskof lev - sivuch. (Priroda, 1950, no. 3, p. 57-59) **Title tr.:** The Kamchatka sea lion, "sivuch".

Contains data on the biology and ecology of the so-called Kamchatka sea lion (*Eumetapias jubata*), an eared seal of Bering Sea; and observations on a young seal tamed and trained by the author as a household pet.

**Copy seen:** DLC; MH.

**23521. KULIK, L. A.** Data on the Tungus meteorite as available toward 1939. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1939. nouv. ser., v. 22, no. 8, p. 151-19, illus.)

Result of the author's expeditions in 1921 and 1927-29 and air photographs made in 1938 of the site of the meteorite which fell June 30, 1908, in the Podkamennaya Tunguska River region at 60°54'58" N., 101°56'59".70 E. Observations on the condition of the vegetation, peat marshes, permafrost are given.

**Copy seen:** DLC.

**23522. KULIK, L. A.** K voprosu o meste padeniia tungusskogo meteorita 1908 goda. (Akademiia nauk SSSR. Doklady, seriia A, 1927. no. 23, p. 399-402, map) **Title tr.:** On the question of the locality of the fall of the Podkamennaya Tunguska meteorite in 1908.

Report of an investigation on the spot and of interviews with several eye-witnesses of the fall (near the Stony Tunguska River).

**Copy seen:** DLC.

**KULIK, L. I.,** see Akademiia nauk SSSR. Khibinskaiia gornaiia stanitsiia. Khibinskaiia gornaiia stanitsiia. 1934. No. 20100.

**23523. KULIK, N. A.** O peskakh Pechorskogo kraia. (Akademiia nauk SSSR. Doklady, Seriia A, 1928. no. 7, p. 156-58) **Title tr.:** On the sands of the Pechora region.

The relief, origin and composition of this formation are discussed.

**Copy seen:** DLC.

**23524. KULIKOV, M. V.** Novyye dannye po verkhnepermiskim spiriferidam Pinegi i Kuloia. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten' 1937. Novaia seriia, t. 45. Otdel. geol. t. 15, vyp. 2, p. 119-28) **Title tr.:** New data on the upper Permian *Spirifer* of the Pinega and Kuloy.

Contains the results of the author's study of the fossil fauna of the extinct Brachiopod genus *Spirifer* of the so-called Kazan layer in the Pinega and Kuloy River valleys, Arkhangel'sk province; with a list of about 35 forms, including many new species and varieties; comparison with fauna of other regions and conclusion on their former distribution and migration. Summary in French.

**Copy seen:** DLC; MH-Z.

**23525. KULLENBERG, BERTIL.** Über die Verbreitung und Wanderungen von vier *Sterna*-Arten. (Arkiv för zoologi, 1947. Bd. 38A, No. 17, p. 1-80, text maps) **Title tr.:** On the distribution and migration of four *Sterna* species.

Contains data on the systematics, biology, ecology and migration routes of four species of terns, including *Sterna hirundo* and *S. macrura*, both northern species, the latter adapted to arctic and subarctic climate (circumpolar), living on the coast and breeding by fresh water. Bibliography (73 items). Summary in English.

**Copy seen:** DSI-M; MH-Z.

**23526. KUMAI, MOTOI.** Electron-microscope study of snow-crystal nuclei. (Journal of meteorology, June 1951. v. 8, p. 151-56, illus.)

"The mechanism of snow-crystal growth is discussed on the basis of [data obtained from experimental work at an altitude of 1050 meters] . . . Snow crystals were received on the colloidal film of the holder of an electron microscope, and left in a desiccator kept between -4 and -8 C. The crystals sublimed and the supposed nuclei remained on the colloidal film. . . . Condensation nuclei are found to be of two kinds, the larger ones most frequently having a diameter of about 0.15 $\mu$ , the smaller ones about 0.05 $\mu$ ."—From author's abstract.

**Copy seen:** DGS.

**23527. KUMARI, N. A.** Genesis kelyskogo kianita na Kol'skom poluostrove. (Akademiia nauk SSSR. Izvestiia. Seriia geologicheskaiia, 1937. no. 5, p. 919-28, illus., sketch map) **Title tr.:** Genesis of the Keiv cyanite on Kola Peninsula.

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Contains description of cyanite schists of the central watershed of the peninsula, known as Keiv cyanite; with detailed microscopic analysis leading to the author's conclusion that this mineral is a pseudomorph of andalusite of a peculiar polymetamorphic type. Summary in English. **Copy seen:** DLC; MH.

**23528. KUNHENN, PAUL.** Grönländische Erinnerungen an Erich v. Drygalski. (Kosmos, Apr. 1949. Jahrg. 45, p. 161-63, illus.) **Title tr.:** Greenland recollections of Erich von Drygalski.

Notes on the late 19th century glacier research done by Drygalski and the subsequent investigations of Karajak Glacier in West Greenland, carried out by other scientists. **Copy seen:** DLC.

**23529. KUNHENN, PAUL.** Weihachten im ewigen Eis. (Kosmos, Dez. 1949. Jahrg. 45, p. 447-50, illus.) **Title tr.:** Christmas on the everlasting ice.

Tribute to the three men, Georgi, Sorge and Loewe, who occupied the mid-ice station of the Alfred Wegener Greenland Expedition during the winter 1930-31, describing their hardships, program and pioneering spirit. **Copy seen:** DLC.

**23530. KUNIKE, HUGO.** Die Sagen-gestalten der Koryaken. (Internationales Archiv für Ethnographie, 1927. Bd. 28, p. 105-136) **Title tr.:** The features of the Koryak legends.

Contains mythological classification and investigation of Koryak legends, chiefly based on the material published by V. I. Jochelson. The author divides the legends into several cycles ("the great raven," "the great light," etc.), tries to explain their origin and connection with phenomena in nature, e. g. influence of the moon on the formation of myths, etc. **Copy seen:** DLC.

**23531. KUNKLE, EDWARD CHARLES.** 1915-. Phasic pains induced by cold. (Journal of applied physiology, June 1949. v. 1, p. 811-24, diagrs.)

"From analyses of local vascular and sensory changes", two kinds of pain were identified: (1) cold pain "attributed to direct injury to the chilled tissues or nerves", and (2) second pain, which "occurs only during the phase of recovery" and "is associated with reactive vasodilatation and a consequent warming of the finger."—Author's summary. Bibliography (23 items). **Copy seen:** DLC.

**23532. KUNTZEMÜLLER, A.** Ergänzungsbauten an der Murmanbahn. (Zeitschrift für Erdkunde, März-Apr. 1943. Jahrg. 11, p. 195-96, map) **Title tr.:** Additional construction on the Murman railroad.

News item sketching the earlier development of the 1451 km. railroad from Leningrad to Murmansk and the need which arose later, during World War II, for building a 500 km. branch line from Byelomorsk to Obozerskaya (on the Moskva-Arkhangelsk line), to maintain transportation to Murmansk in the event that the Leningrad end of railroad fell into enemy hands.

**Copy seen:** DLC.

**23533. KUPFFER, KARL REINHOLD.** 1877-1935. Nashi Alopecurus'y i ikh gibridy. (Tartu (Ür'ev or Dorpat) Estonia. Universitas. Hortus botanicus. Acta, 1905, pub. 1906. t. 6, vyp. 4, p. 237-45) **Title tr.:** Our species of Alopecurus and their hybrids.

Contains critical notes on four species of this genus of grasses and their hybrids; includes *A. ventricosus*, native to Swedish Lapland and White Sea region.

**Copy seen:** DA; MH-A.

**23534. KUPLETSKIĬ, BORIS MIKHAILOVICH.** K mineralogii Khibinskikh tundr. (Akademiia nauk SSSR. Doklady, seria A, 1930. no. 13, p. 331-36, illus.) **Title tr.:** On the mineralogy of the Khibiny tundras.

Veins and scatterings of the eudialyte and zircon ores are described.

**Copy seen:** DLC.

**23535. KUPLETSKIĬ, BORIS MIKHAILOVICH.** K petrografii Khibinskikh tundr. 4. Porody vostochnogo Umpteka. (Akademiia nauk SSSR. Mineralogicheskii muzei. Trudy, 1926. t. 1, p. 83-166, fold. map) **Title tr.:** On the petrography of the Khibiny tundras, 4. The rocks of eastern Umptek.

Description of minerals found in eastern Umptek (area between Lakes Imandra and Ump'yavr), with brief geological characterization of the sites of their occurrence, and a petrographic map (fold.) scale about 1:300,000. Summary in German. **Copy seen:** DSI-M.

**23536. KUPLETSKIĬ, BORIS MIKHAILOVICH.** Knopit v porodakh osnovnoi magmy. (Akademiia nauk SSSR. Izvestiia. Seria geologicheskai, 1936,

no. 1, p. 105-111) *Title tr.*: Knopite in basic magma rock.

*Contains* a description of an intrusion of pyroxenite near Afrikanda station on the Murman Railway in Kola Peninsula; including knopite, a mineral of the perovskite group, rich in titanium and comparable to the Canadian knopite. Its chemical analysis and optical characteristics are offered. It is associated with ijolite and may possibly be residual exudation of ultra-basic magma. Summary in English.

*Copy seen:* DLC; MH.

**23537. KUPLETSKIĬ, BORIS MI-KHAĬLOVICH.** Materialy k izucheniiu Khibinskikh polevykh shpatov. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1931. Seriya 2, chast' 60, p. 51-64, plate, tables, diagrs.) *Title tr.*: Material on the feldspars of Khibiny.

Results of optical and chemical analyses of potash-soda feldspars from pegmatites of the Khibina Tundra alkaline massifs, Kola Peninsula; bibliography (7 items). Summary in English.

*Copy seen:* DGS.

**23538. KUPLETSKIĬ, BORIS MI-KHAĬLOVICH.** Materialy k petrografii pripolarnoi Sibiri mezhdur. Īanoi i Alazeel. (Akademiia nauk SSSR. Izvestiia, seriya 7, Otdelenie fiziko-matematicheskikh nauk, 1930, no. 10, p. 1029-51, illus.) *Title tr.*: Materials on petrography of polar region between the Yana and Alazeya Rivers.

*Contains* the results of microscopic study of mineralogical materials from the rock formations in the vicinity of Svyatoy Nos, western section of the region between the Yana and Indigirka Rivers, and from the banks of the Alazeya (right tributary of the Indigirka about 70°50' N., 153°48' E.). The materials were brought home by the expeditions of A. Bunge (1885), E. v. Toll (1893), and K. Vollosovich (1908-1909). The analysis shows a great difference between the granite formations of the two regions. Summary in German.

*Copy seen:* DLC; MH.

**23539. KUPLETSKIĬ, BORIS MI-KHAĬLOVICH.** Ein Mineral der Astrophyllitgruppe vom Berge Urma-Waraka im zentralen Gebiet der Halbinsel Kola. (Akademiia nauk SSSR. Doklady, seriya A, 1929, no. 14, p. 343-47, tables) *Title tr.*: A mineral of the astrophyllite

group from the Urma-Varaka Mountain in central Kola Peninsula.

Mineralogical and chemical analysis of samples taken in this area about 150 km. east of Imandra station. Comparison with similar minerals.

*Copy seen:* DLC.

**23534. KUPLETSKIĬ, BORIS MI-KHAĬLOVICH.** O kolichestvenno-mineralogicheskome sostave apatito-nefelinovykh porod Khibinskikh tundr. (Akademiia nauk SSSR. Doklady, seriya A, 1928, no. 5, p. 69-72, tables) *Title tr.*: On the quantitative mineralogical composition of the nepheline-apatite rocks from the Khibiny tundra.

*Copy seen:* DLC.

**23531. KUPLETSKIĬ, BORIS MI-KHAĬLOVICH.** Zhizn' i nauchnaia deiatel'nost' akademika A. E. Fersmana k 60-letnemy ūbileuiu. (Akademiia nauk SSSR. Izvestiia. Seriya geologicheskai, 1944, no. 1, p. 35-41, port.) *Title tr.*: The life and scientific activity of A. E. Fersman, member of the Academy of Sciences, tribute to his 60th anniversary.

*Contains* a biographical sketch of the geologist Aleksandr Evgen'evich Fersman, 1883-1945, noting his explorations of arctic regions, including Ural Mts. (1912-14), and the Khibiny (1920-23), Imandra and Monche tundras (1931) in Kola Peninsula. His achievements in the study of geology, petrology, geochemistry and mineralogy of various regions of the U.S.S.R., especially Kola Peninsula are signalized.

*Copy seen:* DLC; MH.

**KUPLETSKIĬ, BORIS MIKHAĬLOVICH,** see also Akademiia nauk SSSR. Khibinskai gornaia stantsiia. Khibinskai gornaia stantsiia. 1934. No. 20100.

**23542. KUPRIĀNOV, P. A.** Khirurgicheskai pomoshch' vo vremia boevykh deistvii v Finlāndii. (Vestnik khirurgii, Feb. 1941. t. 61, kn. 2, p. 113-70, 23 tables) *Title tr.*: Surgical aid during battle activities in Finland.

*Contains* a comprehensive study on the Russian surgical work during the Finnish campaign of 1939-40: outlines of its organization and of surgical aid at various levels of the military organization (Battalion Medical Aid Points to Divisional Hospitals); statistics on kinds, regions and degrees of wounds and kinds of surgical aid; evacuation and moving of hospitals; blood transfusion; wound

treatment; burns, etc. Data on frostbite are also included. **Copy seen:** DLC.

**23543. KUPRIANOVA, L. A.** Issledovanie pyl'tsy i spor s poverkhnosti pochvy iz vysokoshirotnykh rafonov Arktiki. (Botanicheskiy zhurnal SSSR, 1951. t. 36, no. 3, p. 258-69, plates 1-2, text map) **Title tr.:** Investigation of pollen grains and spores from the soil surface of northern regions of the Arctic.

Contains a systematic list of 38 species of flowering plants (including eleven angiosperms), and a few ferns and mosses, collected from the soil in 17 localities in northern arctic regions, including Rudolf and Hooker Islands in Franz Josef Land. Novaya Zemlya, Dikson and Vize Islands, some islands in the Kara Sea and Cape Chelyuskin (Taymyr Peninsula). Dimensions and characteristics of their pollen grains and tabulated data on geographic distribution in various arctic regions are given.

**Copy seen:** DLC; MH-Z.

**23544. KUPRIANOVA, L. A.** Sistematicheskii obzor l'nfanok SSSR. (Akademiya nauk SSSR. Botanicheskiy institut. Trudy, seriya 1, Flora i sistematika vysshikh rastenii, 1950. vyp. 9, p. 38-70, illus., text maps) **Title tr.:** Systematic review of the genus *Linaria* of the U.S.S.R.

Contains a critical revision of Russian species of herbaceous genus *Linaria*, with a key to the species, Latin diagnoses of eight new species and critical notes on 59 species of *Linaria* growing in the U.S.S.R., including *L. vulgaris* and *L. acutiloba* native to the northern European and Asiatic regions (see map 2, p. 45).

**Copy seen:** MH-A.

**23545. KUPTSOV, A. I.** An attempt of synthesizing winter wheats for the sub-tayga zone of west Siberia. (Akademiya nauk SSSR. Comptes rendus (Doklady), 1944. nouv. ser., v. 43, no. 4, p. 166-69, tables)

Experiments with crosses between steppe winter wheats and winter wheats from humid zones, promise to solve the problem of wheat cultivation on the Siberian sub-tayga. **Copy seen:** DLC.

**23546. KURATA, T. B.** Spiders (order, Aranea) from the District of Mackenzie. (Canadian entomologist, May 1949. v. 81, p. 127-31)

List of 86 species mostly from the Great Slave Lake region, with some from

Fort Smith and Great Bear Lake, collected during 1945-47, by several people.

**Copy seen:** DSI-M.

**23547. KURENKOV, F. A.** Opredelenie kolichestva chistoï vody pri ledovykh nablûdeniyakh. (Problemy Arktiki, 1944, pub. 1945, no. 2, p. 87-93, tables, diag.)

**Title tr.:** Determination of ice-free water during the making of ice observations.

Discusses the causes of over-estimating areas of open water, i. e. large stretches of ice-free water, "razvod'ia," polynyi, and free coastal waters, misestimates of which often occur in the routine observations of the arctic navigators; and proposes methods for increasing accuracy in estimating.

**Copy seen:** DGS.

**23548. KURENTSOV, A. I.** Uspekhi zoogeograficheskikh issledovaniï Dal'nego Vostoka za sovetskii period. (Akademiya nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1938, no. 30 (3), p. 221-48) **Title tr.:** Achievements in zoogeographical investigations in the Far East during the Soviet period.

Contains a critical survey of zoogeographical work concerning Soviet Far East in pre-revolutionary and (especially) in the Soviet period, including zoogeographical investigation of the Amur-Ussuri region (by Semenov-Tian-Shanskiï, Kurentsov, Stegman, Zolotarev), Kamchatka Peninsula (Sushkin, D'âkonov) and Chukotsk Peninsula (Ognev, Portenko, etc.) **Copy seen:** DLC; MH-A.

**KURSANOV, ANDREÏ L'VOVICH, 1902-**, see D'âchkov, N. N., & A. L. Kursanov. Carbohydrate composition of lichens. 1945. No. 21457.

**KURTSIN, I. T.**, see Arkhangel'skaia, N. A., & others. K fiziologii kholodovogo staza. 1943. No. 20305.

**23549. KURTZ, V. E., and others.** Stratigraphy of the Dundas Harbour area, Devon Island, Arctic Archipelago. (American journal of science, Sept. 1952. v. 250, p. 636-55, illus., maps) **Other authors:** A. H. McNair and D. B. Wales.

Contains a description of six new formations in the Cambrian-Ordovician sequence which overlies Precambrian gneisses along the southeastern shore of Devon Island; lithologic and faunal notes on similarities with the Cambro-Ordovician of Kane Basin are included. Bibliography (16 items). **Copy seen:** DGS.

**23550. KURTZ, V. E., and others.** Stratigraphy of the Dundas Harbour area, Devon Island, Arctic Archipelago. (Geological Society of America. Bulletin, Dec. 1950. v. 61, p. 1479) Abstract of a paper read before the November meeting of the Society, 1950. Other authors: A. H. McNair and D. B. Wales.

Description of "Cambrian and Ordovician sediments at least 3450 feet thick [which] overlie Precambrian gneisses along the southern shore of Devon Island . . . [having] a very gentle northwest dip and broken by a few minor high-angle normal faults."—Authors' abstract.

**Copy seen:** DGS.

**23551. KURUSHIN, F. M., and N. I. OREKHOV.** Mashiny i orudiia zashchitnogo lesorazvedeniia. Moskva, Goslesbumizdat, 1949. 113 p., illus. **Title tr.:** Machines and tools for protective forest cultivation.

**Contains** sections on plows, harrows, cultivators, seeders, digging and planting machines, spraying and irrigating equipment, for use in developing protective forests as windbreaks, shelterbelts, etc.

**Copy seen:** DLC.

**23552. KUSHEV, S. L., and IŮ. A. LIVEROVSKIĬ.** Principal points in evolution of physico-geographical conditions that were prevailing in central depression of Kamchatka during the Quaternary. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1938. nouv. ser., v. 19, no. 8, p. 615-18)

Report of a geomorphological investigation in 1935-36 of the central depression of Kamchatka and the valley of the Kamchatka River. **Copy seen:** DLC.

**KUSHNAREV, E. G.,** see Sokolov, A. V., & E. G. Kushnarev. Tri plavaniia Lazareva. 1951. No. 26311.

**23553. KUTSCHERA, F.** Beiträge zur Kenntniss der europäischen Halticinen. (Wiener entomologische Zeitung, 1862. Bd. 6, no. 7, p. 215-28) **Title tr.:** Contributions to the knowledge of European Haltica.

**Contains** Latin diagnoses of ten species of leaf beetles native to Europe, with synonymy and critical notes, including *Longirarsus (Haltica) apicalis*, occurring in Lapland; other parts of this paper do not contain arctic material.

**Copy seen:** MH-Z.

**23554. KUUSINEN, ERKKI.** Bemerkungen über die finnischen Arten der

Gattung *Megarthus* Steph. (Col. Staphylinidae). (Notulae entomologicae, 1933. v. 13, no. 3-4, p. 65-71, illus.) **Title tr.:** Notes on Finnish species of the genus *Megarthus* Steph. (Col. Staphylinidae).

**Contains** a key to Finnish species of coleopterous genus *Megarthus* and critical notes on six beetles of this genus, including *M. nigrinus*, native to Finnish and Russian Lapland and *M. nitidulus* found by the author in the Petsamo region.

**Copy seen:** DLC; MH-Z.

**23555. KUZMIN, P. P.** Heat-transfer from the sea into the air by evaporation and convection. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1938. nouv. ser., v. 21, no. 9, p. 445-48).

Calculations offering the possibility of raising the degree of accuracy in determinations of heat transfer, but subject to further investigations.

**Copy seen:** DLC.

**KUZMIN, P. P.,** see also Timonov, V. V., & P. P. Kuzmin. Approximate determination heat-balance White Sea. 1938. No. 26724.

**23556. KUZNETSOV, B. A.** O nekotorykh zakonomernostiakh rasprostraneniia mlekoopitafushchikh po Evropeiskoi chasti SSSR, Pts. I-II. (Zoologicheskii zhurnal, 1936, t. 15, vyp. 1, p. 96-127, text maps, 2 fold. maps; (II) 1937, t. 16, vyp. 1, p. 165-82) **Title tr.:** On certain regularities in the distribution of mammals over the European part of the U.S.S.R.

**Contains** a study of the areas inhabited by various species of mammals in U.S.S.R. west of the Urals, with their geographic limits represented on the maps by the lines termed "synperates" (see pt. I): The synperate network thus formed is found to contain the majority of mammals. Pt. II includes a study of the zoogeographic subdivision of European Russia into eight principal natural regions, of which the more northerly are tundra and semi-tundra, region of northern dense forest and the region of sparse forest. Lists of mammals typical for each region are given. Summary in German of pt. I, and in English of pt. II.

**Copy seen:** DLC; MH-Z.

**23557. KUZNETSOV, E. A., and K. I. ASTASHENKO.** Geologicheskoe stroenie severo-zapadnoi chasti khrebtia Pal-khoi. (Akademiia nauk SSSR. Izvestiia. Seriiia geologicheskaiia, 1938, no. 4,

p. 515-40, illus.) **Title tr.:** Geological structure of northwestern section of the Pay-Khoy Range.

**Contains** the results of a geological investigation of the northern part of the Pay-Khoy ridge carried out by the authors in 1930, with data on the orography, hydrography, stratigraphy, tectonics, petrography and geomorphology of this range (68°50' N., 63° E.) to the north of the Ural Mts. in Arkhangel'sk province. Summary in English.

**Copy seen:** DLC; MH.

**23558. KUZNETSOV, I. I.** Znachenie promysla lososevykh Dal'nego Vostoka i iskusstvennoe ryborazvedenie, kak odno iz glavneshikh sredstv dlya okhraneniya rybnikh zasposov. (*In:* Dal'ne-Vostochnyy Kray. Upravlenie rybolovstva i okhoty na morskogo zveria. Rybnye i pushnye bogatstva Dal'nego Vostoka, 1923. p. 134-214, illus., tables, diagrs.)

**Title tr.:** The importance of the salmon industry in the Far East, and of artificial fish propagation as one of the main means of protecting the fish stock.

This extensive paper includes Kamchatka and the Okhotsk areas, and deals with the production (according to species and areas), migration and economic importance of salmon and causes of the decline of the industry at that time. An outline of artificial salmon propagation follows, together with recommendations on restocking the exhausted resources.

**Copy seen:** DLC.

**23559. KUZNETSOV, NIKOLAI IAKOVLEVICH, 1873-1948.** Arkticheskaya fauna Evrazii i ee proiskhozhdenie (preimushchestvenno na osnove materiala po cheshuekrylym). (Akademika nauk SSSR. Izvestiya. Otdelenie matematicheskikh i estestvennykh nauk. Seriya biologicheskaya, 1938, vyp. 1, p. 105-115)

**Title tr.:** The arctic fauna of Eurasia and its origin (a study based mainly on Lepidoptera).

**Contains** a general discussion of the arctic regions of Eurasia, tundra landscape, and characteristics and origin of arctic fauna, based on the author's study of Lepidoptera fauna of the area, derived from the fauna of the ancient Angara continent. See also the author's more extensive paper of the same title published in 1938. Summary in English.

**Copy seen:** MH.

**23560. KUZNETSOV, NIKOLAI IAKOVLEVICH, 1873-1948.** Arkticheskaya

fauna Evrazii i ee proiskhozhdenie (preimushchestvenno na osnove materiala po cheshuekrylym). Moskva-Leningrad, 1938. 85 p., (Akademiya nauk SSSR. Zoologicheskii institut. Trudy, t. 5, vyp. 1) **Title tr.:** The arctic fauna of Eurasia and its origin (a study based mainly on Lepidoptera).

**Contents tr.:** Definition of the Arctic; composition of the arctic terrestrial and (partly) fresh-water fauna; ecological estimate and taxonomic connections of components of arctic fauna; age and origin of the arctic tundra landscape, its connection with other landscapes; results of glaciation, survival of ice-age conditions, refuges and invasions of the ice-age faunas; historical connections and origin of the arctic fauna in Eurasia, "euarctics" (i. e. arctic endemics) and their origin, heterogeneity of the palaearctic fauna; bibliography (about 350 items). Summary in English, p. 80-85.

**Copy seen:** DLC; MH-Z.

**23561. KUZNETSOV, NIKOLAI IAKOVLEVICH, 1873-1948.** Obzor semeystva Sphingidae palearkticheskoi i otchasti paleantarkticheskoi (Kitaysko-gimalayskoi) faun. (Russkoe entomologicheskoe obshchestvo. Trudy, 1904-05, pub. 1906. t. 3, no. 3-4, p. 293-346, fold. table) **Title tr.:** Survey of the family Sphingidae palaearctic and in part palaearctic (Sino-Himalayan) fauna.

**Contains** a critical review of palaearctic species of the lepidopterous family Sphingidae (hawk moths), with keys to the subfamilies, genera and species, synonymy, critical notes, data on geographic distribution and a scheme of phylogenetic relations of the genera of this family (fold. table); includes a few species spreading to northern Scandinavia (Lapland) and European Russia.

**Copy seen:** DLC; MH-Z.

**23562. KUZNETSOV, NIKOLAI IAKOVLEVICH, 1873-1948.** Some new eastern and American elements in the fauna of Lepidoptera of polar Europe. (Akademiya nauk SSSR. Doklady, seriya A, Oct. 1925. p. 119-22)

**Records** on 15 butterflies (Papilionodea (= Rhopalocera) from the northeastern European Russia, especially along the lower Pechora and its northern tributaries, and in the northern Urals along the Kara River; based on the collections made by A. V. Zhuravskii, 1904-1909, and by P. A. Zaitsev on the Brothers

Kuznetsov Ural Expedition, 1909. This paper deals with the geographic distribution, another paper in preparation, the author states, is to give descriptions of the specimens.

**Copy seen:** DLC.

**KUZNETSOV, NIKOLAI IVANOVICH.** 1864-1932, see Bush, N. A. O dčlenii Sibiri. 1913. No. 21045.

**23563. KUZNETSOV, V. V.** Biočkologičeskaja kharakteristika massovykh vidov morskikh bespozvonochnykh. Biologičeskij tsikl *Laguna vineta* (Montagu)-*Laguna divaricata* (Fabricius) na Vostochnom Murmane. (Akademiia nauk SSSR. Murmanskaja biologičeskaja stanšija. Dal'niye Zelen'sy. Trudy, 1948. t. 1, p. 192-214, illus., tables) **Title tr.:** Bioecological characteristics of mass-species of the marine invertebrates. Biological cycle of *Laguna vineta* (Montagu)-*Laguna divaricata* (Fabricius) in the eastern Murman.

The author uses this widely-occurring mollusc as a representative, typical of animals living on seaweeds. He traces its biological cycles of migration; reproduction and rate of reproduction; growth and maturation; rate of survival of offspring, and total biomass production of this species per area. Bibliography (25 items).

**Copy seen:** DLC.

**23564. KUZNETSOV, V. V.** Biočkologičeskaja kharakteristika massovykh vidov morskikh bespozvonochnykh. Chast' 2. Biologičeskij tsikl *Margarita helicina* (Phipp.) Vostochnogo Murmana i Belogo moria. (Akademiia nauk SSSR. Izvestiia. Serija biologičeskaja, 1948, no. 5, p. 538-64, illus.) **Title tr.:** Bioecological characteristics of mass-species of marine invertebrates, Part 2. Biological cycle of *Margarita helicina* (Phipp.) of the eastern Murman and the White Sea.

**Contains** a biological and ecological study of this mollusc living on *Laminaria saccharina* abundant in the littoral zone of arctic seas. A general characterization is given of the *Laminaria* group for various months in Dal'ne-Zelenetskaya Bay on the eastern Murman coast and in Gridina Bay (Kandalaksha) of the White Sea. Then follow observations on the life cycle of *Margarita helicina* (tables 5-7) and its productivity. For pt. 1 of this paper see item above.

**Copy seen:** MH-Z.

**23565. KUZNETSOV, V. V.** Biologičeskij i biologičeskij tsikl *Lacuna pallidula* Da Costa v Barentsovom more. (In: Pavlovskij E. N., Pamiat' akad. S. A. Zernova, 1948, p. 72-93, diagrs.) **Title tr.:** The biology and biological cycle of *Lacuna pallidula* Da Costa in the Barents Sea.

**Contains** a study of this marine mollusc, *Lacuna pallidula*, carried out at the Murman Biological Station in 1939-41, with data on geographic distribution (horizontal and vertical), biomass and its fluctuations, life cycle and productivity.

**Copy seen:** MH-Z.

**23566. KUZNETSOV, V. V.** Chto takoe problema biologičeskoi produktivnosti vodoemov i kak sleduet rabotat' nad ee razresheniem. (Zoologičeskij zhurnal, 1951, t. 30, vyp. 2, p. 121-29) **Title tr.:** The problem of biological productivity of water basins and ways for its solution.

**Contains** a discussion of the methods used to study the biological productivity of water-basins, based chiefly on the author's experience during his work on the biological stations of the White Sea and Murman coast. Some data on biology and ecology of plankton of the White and Barents Sea are included.

**Copy seen:** MH-Z.

**23567. KUZNETSOV, V. V., and T. A. MATVEEVA.** Materialy k biočkologičeskoi kharakteristike morskikh bespozvonovnykh Vostochnogo Murmana. (Akademiia nauk SSSR. Murmanskaja biologičeskaja stanšija. Dal'niye Zelen'sy. Trudy, 1942. t. 1, p. 242-60) **Title tr.:** Materials towards a bioecological characterization of marine invertebrates of the Eastern Murman.

The authors discuss about 90 species in regard to occurrence, common substrate or medium preferred, reproduction season, depth of habitat and other biological and ecological data.

**Copy seen:** DLC.

**23568. KUZNETSOVA, EVGENIJA.** Nauchnye rezul'taty Ākutskoi ekspeditsii Akademii nauk SSSR. Materialy k faune kozheedov (Dermestidae, Coleoptera) Ākutii. (Akademiia nauk SSSR. Zoologičeskij institut. Trudy, 1932, pub. 1933. t. 1, vyp. 2, p. 229-41) **Title tr.:** Scientific results of the Yakut Expedition of the Academy of Sciences U.S.S.R. Contribution to the beetle

fauna (Dermestidae, Coleoptera) of Yakutia.

Contains descriptions of six species of Dermestidae, collected in the Yakut region by this expedition in 1925-26, with list of localities, data on distribution and keys to the genera and species. Summary in German.

**Copy seen:** DLC; MH-Z.

**KVACHADZE, N. I.**, see Lobodanov, N. S., & N. I. Kvachadze. *Zimnil strug.* 1952. No. 23966.

**23569. KYTMANOV, D. A.** K otkrytiū kul'tbazy na Turukhanskom severe. (Sovetskaiā Aziā, 1928. god 4, no. 1, p. 82-84) **Title tr.:** Opening of a new cultural base in the Turukhansk North.

Contains report of a physician on the establishment of a medical and veterinary center (Turinskaya Kul'tbaza) in 1927 at the junction of the Kochechumo (or Tura) River with the Nizhnyaya Tunguska (64°10' N., 99°58' E.)

**Copy seen:** DLC.

**23570. KYTMANOV, D. A.** Tuzemtsy Turukhanskogo kraia. (Sovetskaiā Aziā, 1927, god 3, no. 2, p. 37-51; no. 3, p. 51-67, tables) **Title tr.:** Natives of the Turukhansk district.

Contains a physician's account of the work of a three-man party, sent in 1926 to the Podkamennaya Tunguska and Sym River region to give medical care to Russians and natives: Yenisey-Ostyaks, Tungus, and Yeniseians. Altogether 455 natives were treated; the more common diseases were scurvy, syphilis, small-pox, trachoma, etc. Author remarks on the difficulty of persuading the Ostyaks to take the medicine in the prescribed way, the impossibility of treating women's diseases, native childbirth care among the Ostyaks and Tungus; statistics are given on smoking and drinking, skin parasites, the high child mortality (about 50 percent), etc.

**Copy seen:** DLC.

**23571. KYZLOSOV, L. P.** Drevneiše svidetel'stvo ob olenevodstve. (Sovetskaiā étnografiā, 1952, no. 2, p. 39-49, illus.) **Title tr.:** The oldest evidence of reindeer husbandry.

Contains evaluation of excavations made by the Khakass archeological expedition, organized by the University of Moscow in 1950. Khakass Autonomous Province lies on the left bank of the Malyy Syr River, on the border between the steppe and taiga regions.

The burial mounds (*chaa-lasa*) date from the first to fourth century A. D. Among other things, they disclosed wooden statuettes of domestic animals: leg of a horse, and a complete reindeer artistically carved from cedar wood. Conclusion is drawn that reindeer husbandry was known to the Sayan-Altai peoples as far back as the bronze age.

**Copy seen:** DLC.

**23572. LABUNTŌSOV, A. N.** Fersmanit, novyi mineral iz Khibinskikh tundr. (Akademika nauk SSSR. Doklady, seriā A, 1929, no. 12, p. 297-301, illus., tables) **Title tr.:** Fersmanite, a new mineral from the Khibiny tundras.

Chemical, crystallographic, optical, etc., analysis is given.

**Copy seen:** DLC.

**23573. LABUNTŌSOV, A. N.** Il'menit iz Khibinskikh tundr. (Akademika nauk SSSR. Mineralogicheskii muzei. Trudy, 1926, t. 1, p. 35-42, plate) **Title tr.:** Ilmenite from the Khibiny tundras.

List of 16 deposits in Khibiny, containing ilmenite, and table of crystallographic properties of five samples of this mineral, with figures.

**Copy seen:** DSI-M.

**23574. LABUNTŌSOV, A. N.** Mestorozhdeniā molibdenita v Khibinskikh tundrach. (Akademika nauk SSSR. Doklady, seriā A, 1929, no. 19, p. 455-57) **Title tr.:** Molybdenite beds in the Khibiny tundras.

**Copy seen:** DLC.

**23575. LABUNTŌSOV, A. N.** O titanovom el'pidite iz Khibinskikh tundr i ego paragenезise. (Akademika nauk SSSR. Doklady, seriā A, Mar. 1926, p. 39-42, tables) **Title tr.:** On the titaniferous elpidite from the Khibiny tundras and its paragenesis.

Crystallographic and chemical analysis of this new mineral. Relation to similar ores of the area and of Greenland.

**Copy seen:** DLC.

**23576. LABUNTŌSOV, A. N.** Otchet o komandirovke v Khibinskie tundry letom 1926 g. (Akademika nauk SSSR. Doklady, seriā A, 1927, no. 1, p. 5-8, map) **Title tr.:** Report on the expedition into the Khibiny tundras in the summer of 1926.

Mineralogical geological account.

**Copy seen:** DLC.

**23577. LABUNTŌSOV, A. N.** Resul'taty komandirovki v Khibinskie tundry 1925

g. (Akademii nauk SSSR. Doklady, seriia A, Jan. 1926, p. 15-16) *Title tr.*: Results of the expedition of 1925 to the Khibiny Tundra.

Route and areas visited are listed and a brief description is given of ore deposits seen. *Copy seen:* DLC.

**LABUNTŠOV, A. N.**, see also Akademii nauk SSSR. Kol'skaja baza. Materialy k geokhimii Khibinskikh tundr. 1935. No. 20101.

**23578. LABZOVSKIĬ, N. A.** K voprosu ob opredelenii ugla otkloneniia vetra v prizemnom sloe vozdukh a ot napravleniia gradianta. (Problemy arktiki, 1944, pub. 1945, no. 2, p. 108-114, tables, diagrs.) *Title tr.*: Determination of the angle of deviation of the wind from the direction of the gradient in the atmospheric layer near the ground.

"A study of data pertaining to the deviation of the wind from the direction of the baric gradient in the Kara Sea shows that the angle of deviation does not depend on the velocity of the wind, but rather on the density of the air; the value of the coefficient of friction between the air and the underlying surface of the Kara Sea does not vary from winter to summer. The author limits his findings to the investigated area. An application of the established relations to other regions requires additional survey."—*Meteorological abstracts and bibliography*, Feb. 1952. v. 3, no. 2, p. 112. *Copy seen:* DGS.

**23579. LABZOVSKIĬ, N. A.** O vliianii razgona na velichinu elementov voln. (Problemy Arktiki, 1944, pub. 1945. no. 2, p. 75-86, tables, diagrs.) *Title tr.*: The influence of the fetch on the size of waves.

In connection with the investigations of V. Cornish, Wey, and C. Börgen, the author studies the influence of the fetch (stretch of water over which the wind blows) on the height of the wave produced and tabulates the relation of three factors influencing the height of wave, viz. geographical latitude, velocity of wind, and extent of the fetch (in km.). He illustrates this theory with observational data on the waves of Kara Sea. *Bibliography* (8 items). *Copy seen:* DGS.

**23580. LACH, ROBERT, 1874-** . Gesänge russischer Kriegsgefangener. 1. Bd. Finnisch-ugrische Völker, 1. Abt. Wotjakische, Syrjänische und Permia-

kische Gesänge. Transkription und Übersetzung der . . . syrjänischen und permjakischen von Dr. Raphael Fuchs. 54. Mitteilung der Phonogramm-Archiv-Kommission. Wien und Leipzig, Holder-Pichler-Tempsky A. G., 1926. 135 p., musical notes. (Akademie der Wissenschaft in Wien. Philosophisch-historische Klasse. Sitzungsberichte, Bd. 203, Abt. 5) *Title tr.*: Songs of the Russian prisoners of war: Votyak, Zyryan and Permian songs. Transcription and translation from the Zyryan and Permian by Raphael Fuchs. Phonograph-Archives Commission report no. 54.

*Contains* (among others) Zyryan words and melodies (also German translations) of 65 songs, recorded with a phonograph in 1916-17 by the Academy of Science in Vienna from the native Zyryans, former soldiers of the Russian army, taken prisoners-of-war by Austrians. The Zyryans (total about 90,000) live on the Rivers Pechora, Mezen' and the eastern tributaries of the Severnaya Dvina. The singers of this recorded material were native to the districts of Voronzovskoye, Votchinskoye, Kokvit-skoye Vychera, and Soshka, all in the government of Vologda. In the introduction Lach gives a musical characterization of these songs, remarks on the singers and their inclination to improvise, the influence of the Russian songs, etc. The material should be used with a certain caution, as the singers were inclined evidently to extend their rather limited native repertory by adapting Russian melodies and translating Russian texts. *Copy seen:* DLC.

**23581. LACH, ROBERT, 1874-** . Vorläufiger Bericht über die im Auftrage der kais. Akademie der Wissenschaften erfolgte Aufnahme der Gesänge russischer Kriegsgefangener im August bis Oktober 1917. 47. Mitteilung der Phonogramm - Archivs - Kommission. Wien, 1918. 63 p. musical notes. (Akademie der Wissenschaften in Wien. Philosophisch-historische Klasse. Sitzungsberichte, Bd. 189, Abt. 3) *Title tr.*: Preliminary report on the recording of songs of the Russian prisoners-of-war made by the Academy of Sciences from August to October, 1917. Phonograph-Archives Commission report no. 47.

*Contains* account of organization of the work, and its results, musical characterization of the melodies, their various types and historical evolution, specimens

of Estonian, Zyrian (8), Mordvinian, Votyak, Cheremiss and Chuvash melodies are given. It was quite difficult to get genuine Zyryan-Permian, Mordvinian and Votyakian songs, because the process of Russification of those natives had made such progress that the younger generation had already adopted the Russian songs and only the old people at home knew the native songs well. On the other hand, the author thinks that the representatives of the Cheremiss and Chuvash people had preserved their native songs much better because they were more nimble-witted and at a higher intellectual level than Zyryans, Votyaks or Mordvins. In all, 837 songs were recorded, among them 69 Zyryan and Permian. **Copy seen:** DLC.

**LACH, ROBERT, 1874-**, see also Krohn, I. Melodien d. Permier. 1928. 23474.

**23582. LACKSCHEWITZ, PAUL, 1865-1936.** Beitrag zur Kenntnis der Tipuliden Finlands (*Tipula lateralis* sens. lat.) (Notalulæ entomologicae, 1924. Årg. 4, häft. 3, p. 84-87) **Title tr.:** A contribution to the knowledge of Tipulidae of Finland (*Tipula lateralis* sens. lat.)

Contains a critical note on five species of crane flies (Tipulidae) of the group *Tipula lateralis*, including *T. coerulescens* native to Enontekiä, Finnish Lapland.

**Copy seen:** DLC; MH-Z.

**23583. LACKSCHEWITZ, PAUL, 1865-1936.** Das Genus *Tipula* (Diptera, Nematocera) in der Arktis und dem borealen Waldgebiet Eurasiens. (Akademiä nauk SSSR. Zoologicheskii institut. Trudy, 1936. t. 4, vyp. 2, p. 245-312, illus.) **Title tr.:** The genus *Tipula* (Diptera, Nematocera) in the arctic and the boreal forest zone of Eurasia.

Contains a critical revision of 62 species of crane-flies, genus *Tipula*, with synonymy, descriptive notes and data on distribution. Many of the species are native to northern Scandinavia and the arctic regions of European and Asiatic Russia; bibliography (18 items).

**Copy seen:** DLC; MH-Z.

**23584. LACKSCHEWITZ, PAUL, 1865-1936.** Tipuliden-Studien II-III. (Dip., Nematoc. polyn.). (Konowia, 1933, Bd. 12, heft 1-2, p. 129-42, plate 1; (II) 1934, Bd. 13, heft 2, p. 125-44, illus.)

Contains (in pt. II) a study of palaearctic species of the crane-flies of the genus *Prinocera*, with a table for the

determination of the species and descriptions of six species, including *P. prozima*, *P. abscondita*, *P. anceps* n. spp. and three other species distributed in northern Finland, European Russia and Siberia (from the Polar Urals to Kamchatka). In pt. III are the keys for the determination of five species of the group *Stigmatella* and 11 species of *Trifurcata* group, descriptions, localities, lists of specimens and data on distribution. Includes *T. crassicornis* native to Lapland, the Polar Urals and northern Siberia and *T. hirsutipes* and *T. tristriata* from northern Siberia. Pt. 1 of this paper does not include arctic material.

**Copy seen:** MH-Z.

**23585. LACKSCHEWITZ, PAUL, 1865-1936.** Über *Ilisia obscuripes* Zett. und zwei neue Eriopterinen (Dipt. Nemat.) aus Lapland. (Norsk entomologisk tidskrift, 1936. Bd. 4, hefte 3, p. 110-16, illus.) **Title tr.:** On *Ilisia obscuripes* Zett. and two new Eriopterinae (Dipt. Nemat.) from Lapland.

Contains a diagnosis of *Ilisia obscuripes* Zett. re-described by the author from specimens collected in Abisko, Torne Lappmark, and in the lower Tunguska region of Siberia, also descriptions of two new dipters, *Erioptera zetterstedti* and *Sacandaga infusculata* n. spp. collected by O. Ringdahl in Swedish Lapland (Kiruna and Abisko). **Copy seen:** DA; MH-A.

**LADD AIR FORCE BASE, see U. S. ARCTIC AEROMEDICAL LABORATORY. LADD AIR FORCE BASE, ALASKA.**

**23586. LAEMMLEIN, G. G.** On the orientation of quartz crystals in the veins of the alpine type in the sub-arctic Urals. (Akademiä nauk SSSR. Comptes rendus (Doklady), 1939. nouv. ser., v. 22, no. 1, p. 42-44, diagr.)

Author measured "the orientation of 500 quartz grains in a thin-section of a quartz-sericite-chloritic schist (Sura-iz mountain, sub-arctic Ural) cut parallel to the tension fissure." **Copy seen:** DLC.

**23587. LAGERBERG, TORSTEN.** Anteckningar till Sveriges macrolepidopterfauna. (Entomologisk tidskrift, 1911. Årg. 32, häft. 1-2, p. 13-42) **Title tr.:** Notes on Macrolepidoptera fauna of Sweden.

Contains a systematic list of more than 250 species and varieties of Swedish lepidopters, including many species na-

tive to Swedish Lapland, with data on habitat and distribution and occasional critical notes.

**Copy seen:** DLC; MH-A.

**23588. LAGERCRANTZ, CARL LUDVIG, 1916-** . Lapland min hobby. [Åbo] Förlaget Bro [1944]. 191 p., illus. **Title tr.:** Lapland, my hobby.

Popular sketches of the author's travels (for geological and other scientific investigations) in northern Finland and Norway and in the northern Swedish border regions, before World War II; trips in a fishing vessel along the arctic coast from Kirkenes, by canoe up the Muonio River, on the mailboat around Lake Inari, etc. Includes descriptions of Lappish life and customs and natural characteristics of the country, with numerous illustrations from the author's drawings and photographs.

**Copy seen:** DLC.

**23589. LAGERCRANTZ, ELIEL, 1894-** . Entwicklungspsychologische Analyse lappischer Folklore. Helsinki, Suomalainen Tiedekatemia, 1950. 155 p. (Folklore Fellows. Communications no. 138) **Title tr.:** Analysis of Lapp folklore based on comparative psychology.

Contains in the theoretical part (p. 1-53), explanation of the principles according to the author's viewpoint of how folklore should be investigated. The second part (p. 54-152) consists of interpretations according to these principles of tales, beliefs, and songs taken from the author's collection of Lapp poetry (*Lappische Volksdichtung*). He attempts to determine the rules of pure evolutionary psychology in folklore and believes that an explanation of dreams with aid of analogies can give a key for interpretation of folklore. As his teacher and forerunner he mentions Heinz Werner and the latter's *Einführung in die Entwicklungspsychologie* (translated as: *Comparative psychology of mental development*, Chicago, 1948. xii, 564 p.) Lagercrantz presents here in effect, a somewhat modified application to folklore of Freud's theory of psychoanalysis. The demons of folk tales, according to the author, were caused by neurotic fears and various erotic disturbances: fear of death, fear of coitus, castration and impotence, etc. "Most of the primitive tales, which deal with social and erotic conflicts, have a murder at the end, or some other sadistic or masochistic excesses" (p. 47). The cycle of tales about Stallo and his wife, for instance, gives a demonic representation

of social and erotic fears and effects of guilt between parents and their children, an Oedipus complex, etc. (p. 60). The work abounds in psycho-analytic terminology, with eroticism, fear and murder shown as main forces in development of Lapp folklore. **Copy seen:** DLC; InU.

**23590. LAGERCRANTZ, ELIEL, 1894-** . Die Geheimsprache der Lappen. Helsinki, 1928. 13 p. (Suomalais-ugrilainen seura. Aikakauskirja, v. 42, no. 2) **Title tr.:** The secret language of the Lapps.

Contains information on two kinds of secret language: the southern Lapps use picturesque description for objects, saying e. g. "horns" for "money", "bitter" for "coffee", "scissors" for "weapons", etc.; the northern Lapps of Varanger interchange syllables in a word, transposing the second and first, the third and fourth syllable, etc., e. g. the word "tolin" is spoken: "linto"; the quantity of sounds is also changed. Some Lapps can speak and understand this "reversed" language very fluently. These secret languages are used in private conversation when it is desired to keep somebody else knowing ordinary Lappish, from understanding e. g., when dealing with a merchant.

**Copy seen:** DLC; InU.

**23591. LAGERCRANTZ, ELIEL, 1894-** . Eine lappische Melodie aus Varanger. (Suomalais-ugrilainen seura. Toimituksia, 1928. no. 58, p. 109-116, musical notes, 2 illus.) **Title tr.:** A Lapp melody from Varanger.

Contains analysis of a melody recorded by means of a kymographion; mathematical evaluation of the sounds is given. Author comments that these melodies usually are older than the words of the song.

**Copy seen:** DLC; InU.

**23592. LAGERCRANTZ, ELIEL, 1894-** . Lappischer Wortschatz I-II. Helsinki, 1939. 2. v. (iv, 1249 p.) (Suomalais-ugrilainen seura. Lexica Societatis Fenno-Ugricae, 6) **Title tr.:** Lappish vocabulary I-II.

Contains word list (1036 p.) followed by a classified index in German, and a section giving some commentary on the Lappish language and the phonetic system.

**Copy seen:** DLC; InU.

**23593. LAGERCRANTZ, ELIEL, 1894-** . Die Primitivismen arktischer Sprachen im Lichte der Entwicklungspsychologie. (Suomalais-ugrilainen seura.

Toimituksia, 1950. v. 98, p. 107-123)  
**Title tr.:** The primitive features of arctic languages in the light of the development psychology.

A linguistic study by an authority on the Lappish language in which the following points are discussed: (1) complex meaning, interlacement of functions, and diffuse formations in the primitive sentence structure; (2) the quasi-abstraction; (3) instability and concrete character of the noun-flexion; (4) the verbal aspect of the primitive adjective; (5) embryonic non-differentiated pronominal complexes; (6) the concrete numeral; (7) number attached to persons and things; (8) implicitly expressed ideas of relation; (9) the concrete verb; (10) typological resemblances and chronological gradations of arctic dialects.

**Copy seen:** DLC; InU.

**23594. LAGERCRANTZ, ELIEL.** 1894-. Reise- und Forschungsbericht 1918-24. (Finnisch-ugrische Forschungen. Anzeiger, 1923-24. Bd. 16, no. 1-3, p. 54-68) **Title tr.:** Report on travel and research work in 1918-24.

Contains account of the author's 30-month sojourn among the Lapps in 1918-21, studying various dialects. He noted 15,343 words on slips, wrote down 1,635 pages of texts, also 2,702 pages of phraseological material, and recorded with a kymographion 585 tapes, containing over 10,000 words and phrases. Subsequently he worked this material up for several publications. All this was sponsored by merchants of Helsinki and Viipuri, University of Helsinki, and Finno-Ugric Society.

**Copy seen:** DLC; InU.

**23595. LAGERCRANTZ, ELIEL,** 1894-. Strukturtypen und Gestaltwechsel im Lappischen. Helsinki, 1927. iv, 425 p. illus. (Suomalais-ugrilainen seura. Toimituksia, no. 57) **Title tr.:** Structural types and change of form in the Lapp language.

**Copy seen:** DLC; InU.

**23596. LAGERCRANTZ, ELIEL,** 1894-. Zweiter Reise- und Forschungsbericht (1924-26). (Finnisch-ugrische Forschungen, Anzeiger, 1927. Bd. 18, no. 1-3, p. 127-43) **Title tr.:** Second travel and research report, 1924-26.

Contains the detailed description of author's third expedition to the Lapps and his investigations of their language and folklore. He visited practically all the larger Lapp settlements in Finno-

scandia, sponsored by the Finno-Ugric Society, University of Helsinki, and the Norwegian Institute for Cultural Research.

**Copy seen:** DLC; InU.

**LAGERCRANTZ, ELIEL, 1894-**, see also Äimä, F. G., & B. Collinder. Zur Lautkombinationslehre. 1928. No. No. 20052.

**23597. LAGERHEIM, NILS GUSTAF, 1860-1926.** *Sagina normaniana* (S. linnaei Presl x S. procumbens L.). (Norske videnskabers selskab, Trondhjem. Skrifter, 1898. no. 1, p. 1-4)

Contains a description of *Sagina normaniana*, a new hybrid, found in 1894 on Tromsø Island, and notes on parent plants.

**Copy seen:** DLC; MH-Z.

**23598. LAGERKRANZ, J.** Observations on the flora of West and East Greenland made during four voyages 1934, 1936, 1938 and 1946. Uppsala, Almqvist & Wiksell, 1950. 141, [1] p., illus., 8 plates. (Vetenskaps-societeten i Uppsala. Nova Acta, ser. 4, v. 14, no. 6)

Contains a survey (p. 9-56) of the author's expeditions to Godhavn (Disko) in 1934, Godthaab District, 1936, Ivigtut, 1938, and Julianehaab, Angmagssalik and Scoresbysund in 1946, with descriptions of the different vegetation districts encountered and discussion of five dwarf willows. A list is presented (p. 57-128) of the 18 species and varieties of ferns, and 330 species and varieties of vascular plants collected and observed; synonymy, localities, and some notes are included. Bibliography (183 items). Appended (p. 129-34) is a list of 54 species and varieties of mosses as determined by H. Persson, with localities indicated.

**Copy seen:** DGS.

**23599. LAGUNOV, I. I.** O pere love krasnoĭ (nerki) v Ust'-Kamchatskom raione. (Bülleten' rybnogo khozaistva, 1940. no. 9, p. 14-15, table, sketch) **Title tr.:** On overfishing of the red salmon in the Ust'-Kamchatka region.

Report is based on 10-12 years of catch returns of Russian and Japanese authorities, and contains recommendations to avoid over-fishing.

**Copy seen:** DLC.

**23600. LAINE, EEVERT.** Malminetsintä Suomessa 1809-1884. Helsinki, 1950. 103 p., illus., map. (Finland. Geologiska kommission. Geoteknillisiä julkaisuja (Geotekniska meddelanden),

no. 49) **Title tr.:** The search for ores in Finland from 1809 to 1884.

*Contains* data and statistics on the finding and mining of titanium, sulphur, copper, magnetic pyrites and iron. Two mines in the North are included, Yuva-kaisenmaa and Porkonen Pahtavaara. Bibliography (40 items).

**Copy seen:** DGS.

**23601. LAING, HAMILTON MACK, 1883-** . Wild life of the upper Chitina. (*In:* Alpine Club of Canada. The Mount Logan Expedition. *Pub.* in: Canadian alpine journal, 1925. v. 15, p. 99-114, 4 plates)

*Notes* by the expedition's naturalist on birds, plants and mammals (especially Dall's sheep) observed May 15-Aug. 15, 1925, in the mountain slopes and valley directly below the Chitina Glacier on the northwest part of Mt. Logan, in the southwest corner of Yukon Territory. Generic and specific names are supplied in footnotes.

**Copy seen:** DGS.

**23602. LAITAKARI, AARNE VIHITORI, 1890-** . Geologische Bibliographie Finnlands 1555-1933. Helsinki, 1934. 224 p. (Finland. Geologiska kommission. Bulletin, 108) **Title tr.:** Geological bibliography of Finland from 1555 to 1933.

*Contains* list of more than 3000 papers and books, arranged alphabetically by author (no annotations); considerable material on the North is included.

**Copy seen:** DLC.

**23603. LAITAKARI, AARNE VIHITORI, 1890-** . Suomen malmit, hyödylliset mineralit, kivit ja maalajit. Helsinki, 1937. 160 p. illus., diags., maps (incl. 1 fold.). (Finland. Geologinen toimikunta. Geoteknillisiä julkaisuja. no. 42) **Title tr.:** Finnish ores, useful minerals, rocks and soil types.

*Contains* an economic geological survey with information on the North throughout: data on 29 non-metallic ores, 19 mineral ores, building stones, industrial stones and soils, with note of important stone and soil types not occurring in Finland. Mines and quarries are noted, also geological investigations and ore-bearing areas, with geological map. Bibliography (50 items).

**Copy seen:** DLC.

**23604. LAITINEN, V. V.** Porotalous metsätalouden näkökannalta. (Metsätaloudellinen aikakauslehti. (Finska

forstföreningen), 1951. no. 1, p. 27-28, illus.) **Title tr.:** Reindeer raising from the viewpoint of forest economy.

*Contains* sketch of the habits of reindeer noting the damage to young seedling trees caused by their grazing in the northern forests; this damage is offset, however, by the importance of reindeer in the economy of the area, and by the fact that they cause less damage than deer, and are comparatively easy to husband under the vegetation (lichens, etc.) and other conditions of northern Fennoscandia.

**Copy seen:** DA.

**23605. LAKARI, O. J.** Ehdotus kasvutaulujen laatimiseksi Pohjois-Suomen metsiä varten. Helsinki, 1919. 9 p. (Acta forestalia fennica, 12) **Title tr.:** A suggestion for the making of growth charts for the forests in northern Finland.

*Gives* specific recommendations on how to make growth charts for the slower-growing trees in the far North.

**Copy seen:** DLC.

**23606. LAKARI, O. J.** Studien über die Samenjahre und Altersklassenverhältnisse der Kiefernwälder auf dem nordfinnischen Heideboden. Helsinki, 1915. 211 p., 5 plates, illus., fold. map, tables. (Fennia, 38:4) **Title tr.:** Studies on the seed-years and age-group conditions of the pine forests from the northern Finnish heath soils.

*Contains* in this study of northern Finland and Lapland between 64°30' and 68°25' N. lat., outline of its geography (including climate; soil; types, age and genesis of the forests; land tenure; population, etc.). Earlier studies on seed-years and methods of investigation are noted; the forests described; their seed-years presented, with data on the age, growth and ring formation of the trees. Distribution of age classes in the forests, amount of young growth, size (height and diameter), conditions in relation to age; rate of growth, etc., are discussed and analyzed. Bibliographic footnotes.

**Copy seen:** DLC.

**23607. LAKARI, O. J.** Tutkimuksia kuusen ja männyn kasvusuhteista Pohjois-Suomen paksusammalttyypillä. Helsinki, 1920. 165, 15 p., illus., tables. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 2:1) **Title tr.:** Studies of the growth characteristics of spruce and fir of the thick moss types [of forest] in northern Finland.

*Contains* introductory description of

the region (weather; mountains; soil types; elevation; tree types, age, density and height; fire damage; land ownership; and transportation, p. 1-11; method of study, p. 11-20; data on the experimental areas and stands, p. 20-63; size, growth and mass of trees, p. 64-145; general characterization of the thick moss type of forest, p. 145-65. Bibliography (25 items). Summary in German and Finnish-German glossary, p. 1-15 at end.

**Copy seen:** DLC.

**23608. LAKARI, O. J.** Tutkimuksia männyn muodosta. Helsinki, 1920. 30, 8 p., tables. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 3:1) **Title tr.:** A study of the form of pine.

On the basis of a study of the pine forests of three districts, one of which, Kuusamo, extends north of the Arctic Circle, the author presents data on trunk and tree-top forms and their interrelationship, with comparative remarks on tops in other forest types. Summary in German.

**Copy seen:** DLC.

**23609. LAKARI, O. J.** Tutkimuksia Pohjois-Suomen metsätyypeistä. Helsinki, 1920. 85 p., 10 fold. tables, fold. map. (Acta forestalia fennica, 14:4) **Title tr.:** Studies of the forest types in northern Finland.

From a study of about 170 plots, the author describes their forest types (on the basis of Cajander's classification), vegetation and its occurrence by species in the various forest types; development of these types of forest, the tree species and their growth; occurrence and locality of 96 plant species (grasses, lichens, mosses, shrubs, etc.) associated with these forest types. Summary in German.

**Copy seen:** DLC.

**23610. LAKARI, O. J.** Valtion metsätalouden tehostaminen. Helsinki, 1927. 45 p., incl. map, tables. (Silva fennica:6) **Title tr.:** Work for greater efficiency in state forestry.

Contains data on the government-owned forests mainly in the North (shown on map); amounts and types of growth and felling; programs to increase forest efficiency, marketing and yield, by swamp drainage, artificial afforestation and other silvicultural measures, improvement in communications. Summary in English.

**Copy seen:** DLC.

**23611. LAKÓ, GYÖRGY.** Zur Frage des permischen Prosektivus und Tran-

sitiv. (Suomalais-ugrilainen seura. Toimituksia, 1950. v. 98, p. 219-43) **Title tr.:** On the question of the Permian prosecutive and transitive.

Linguistic study based on Permiak dialects of which Zyryan is a salient component. The prosecutive and the translative serve to express various aspects of the verbal predicate. The prosecutive expresses a cursive activity, and has the meaning of a prolative. The transitive usually expresses the terminative aspect of activity, and is originally a locative, though it often appears in the meaning of a prolative. **Copy seen:** DLC; InU.

**23612. LAKOZA, IŮ. I.** Lechebnoe primenie reventā tangutskogo, vyroshchennogo na Pechore. (Aptechnoe delo, May-June 1952. no. 3, p. 63-64) **Title tr.:** Therapeutic use of Tangut rhubarb, grown on the Pechora.

Contains note of the local climatic conditions and the way rhubarb is grown (in an experimental way). The success of the Tangut variety, yields, preparation of a powder from the root, and its characteristics, etc., are described. This local arctic product is claimed to be equal in value to others, in alleviating gastric, liver and bile disorders. Bibliography (4 items).

**Copy seen:** DLC.

**23613. LAKTIONOV, A. F., and V. V. DREMLIŮG.** Analiz skorosti dvizheniā sudov vo l'dakh arkticheskikh morei. (Problemy Arktiki, 1944, pub. 1945. no. 1, p. 5-32, 42 tables, diagrs.) **Title tr.:** Analysis of the rate of movement of vessels in the ice of arctic seas.

On the basis of data from the logs of 38 ships (listed on p. 6) which navigated on the Northern Sea Route during 1935-38, detailed analysis is given, with diagrams of the gradual decrease in speed of ships moving in ice-covered sea; with conclusion that the rate of movement depends on compactness of the ice, and the quality of the ship, and that the diagrammatic representation of decrease of speed is a curve. Bibliographic footnote, p. 5.

**Copy seen:** DGS.

**23614. LAKTIONOV, A. F. S. O.** Makarov i zavoevanie Arktiki. "Ermak" vo l'dakh" (referenziā). (Problemy Arktiki, 1944, pub. 1945. no. 2, p. 123-26) **Title tr.:** S. O. Makarov and the conquest of the Arctic. The *Ermak* in the ice (a review).

Review of Makarov's work published in 1943 under this title, q. v., with a

brief appraisal of the hydrographic and nautical contributions of Makarov.

**Copied seen:** DGS.

**23615. LAKTIONOV, A. F.** Severnyy polfus. Arkhangel'sk, Arkhangel'skoe oblastnoe Izd-vo, 1939. 236 p. illus., maps. **Title tr.:** The North Pole.

"Voyages to the Arctic between 1527 and 1937 [p. 9-185] and the central polar basin [p. 185-230] are described. The polar basin is a large water reservoir with depths approximately 4,000-5,000 m. Warm water from the Atlantic, enters the polar region through a strait between Greenland and Spitsbergen, and cold water is discharged into the Atlantic west of Greenland. Nearly all the polar basin is filled with warm Atlantic water to a depth of 200 to 800 m. The water temperature varies from  $-1.5^{\circ}$  C. to  $-1.7^{\circ}$  C. on the surface and decreases by 0.2-0.3 degrees at a depth of 50 m. The temperature increases to  $1.0^{\circ}$  C. wherever Atlantic waters are encountered. The salt content is approximately 2.9-3.2 per cent in the upper layers and may be 3.5 percent or higher at a depth between 25 and 250 m. [etc.]"—SIPRE. The historical part was greatly expanded and brought up to date, and the scientific part extended in a later (1949) edition of this work (see *Arctic Bibliography* No. 9612).

**Copied seen:** DLC.

**23616. LAMAKIN, V. V.** Sovremennoe podnatie zemnoi poverkhnosti na Srednei Pechore. (Akademiia nauk SSSR. Izvestiia. Seria geologicheskaiia, 1945, no. 4, p. 116-27, illus., text map, fold. profile.) **Title tr.:** A contemporary upheaval of the earth's surface on the Middle Pechora.

"Upwarping in the middle Pechora River region (about  $60^{\circ}20'$  N.,  $57^{\circ}30'$  E.) began in Middle Pleistocene time and developed simultaneously with the development of the river valley. The rate of present-day uplift is relatively high."—Geological Society of America. *Bibliography and index of geology*, 1949, pub. 1950. v. 14, p. 146. Summary in English.

**Copied seen:** MH.

**23617. LAMB, H. H.** Estimating the remoteness of observed cloud features. (Meteorological magazine, London, Dec. 1938. v. 73, (875), p. 293-94, fig.)

"Visibility is normally better in the free air than near the earth's surface. Better visibility conditions near the surface are found in polar regions. Watkins

observed visual range of 250 miles during the expedition to Greenland in 1930."—*Meteorological abstracts and bibliography* Sept. 1952. v. 3, no. 9., p. 960.

**Copied seen:** DLC.

**23618. LAMBART, H. F. J.** Topographic and geographic exploration of the Mt. Logan region. (In: Alpine Club of Canada. The Mount Logan Expedition. Pub. in: Canadian alpine journal, 1925. v. 15, p. 15-25, 4 plates (1 fold.))

Contains historical sketch of the region and description of its principal glaciers, with brief notes on its vegetation, game, temperatures and geology.

**Copied seen:** DGS.

**23619. LAMBERS, D. HILLE RIS.** The aphid fauna of Greenland. København, C. A. Reitzel, 1952. 33 p. illus., 5 plates, sketch map. (Meddelelser om Grønland. Bd. 136, no. 1) Results of the Danish Zoogeographical Investigation of Greenland; leader: Chr. Vibe.

Contains descriptions of aphids, including one new genus, 12 new species and one new subspecies, collected at localities along the west coast of Greenland as far north as Thule; includes notes on their biology.

**Copied seen:** DGS.

**LAMBERT, EDWARD HOWARD, 1915-**, see Keeton, R. W., & others. Tolerance of man to cold: proteins. 1946. No. 23178.

**LAMBERT, EDWARD HOWARD, 1915-**, see also Mitchell, H. H., & others. Tolerance of man to cold: carbohydrate. 1946. No. 24389.

**23620. LAMBERT, LOWELL E.** Municipal water treatment in western Alaska. (Alaska's health, Mar. 1948. v. 6, no. 3, p. [2])

Contains general notes on cold weather problems in water treatment: surface, anchor and frazil ice, sedimentation tank troubles, filters, etc., all of which can be solved.

**Copied seen:** DLC.

**23621. LAMPA, SVEN, 1839-1914.** Anteckningar om sällsyntare svenska Lepidoptera. (Entomologisk tidskrift, 1883. Årg. 4, häft 2, p. 125-28, 223, illus. **Title tr.:** Notes on uncommon Swedish Lepidoptera.

Contains Latin diagnosis of *Sesia auri-villii*, n. sp. from Swedish Lapland.

**Copied seen:** DLC; MH-Z.

**23622. LAMPA, SVEN, 1839-1914.** För finska faunan nya insekter. (Entomologisk tidskrift, 1901. Årg. 22, häft. 2-3, p. 158-59) **Title tr.:** Insects new to the fauna of Finland.

Contains a list of 6 lepidoptera, 9 coleoptera and 2 diptera new to the fauna of Finland; includes a beetle, *Cryptophagus plagiatus*, from northern Lapland.

**Copy seen:** DLC; MH-A.

**23623. LAMPA, SVEN, 1839-1914.** Forteckning öfver Skandinavien och Finlands Macrolepidoptera. (Entomologisk tidskrift, 1885. Årg. 6, häft. 1-3, p. 1-137, 211-13) **Title tr.:** Survey of Macrolepidoptera of Scandinavia and Finland.

Contains a systematic list of 895 species of Macrolepidoptera native to the Scandinavian Peninsula and Finland, with data on distribution, larvae and their host plants; register of the species (p. 125-37). Numerous varieties and aberrations are described as new, including many species from northern regions of Scandinavia and Finland. Summary in French.

**Copy seen:** DLC; MH-Z.

**23624. LAMPA, SVEN, 1839-1914.** Lökflugan (*Anthomyia antiqua* Mg.). (Entomologisk tidskrift 1905. Årg. 26, häft. 1-3, p. 60-63, plate 1) **Title tr.:** Onion-fly (*Anthomyia antiqua* Mg.).

Contains a description of an onion-fly, *Anthomyia antiqua* (male and female), native to Lule Lappmark; with data on its larvae and pupae, biology and damage done by its larvae to host plants (onion, turnip, cabbage).

**Copy seen:** DLC; MH-Z.

**23625. LAMPE, GUNNAR BERG.** Hele Norge, i kart, ord og bilder. Oslo, Utgitt av Landslaget for Reiselivet i Norge, 1950. **Title tr.:** All Norway, in maps, words and pictures.

Contains a useful travelers' guide in 35 sections, each with a map, illus. and list of inhabited places; with information on population, history, historic and scenic sites, trades and industry, etc. Thirteen sections and maps no. 23-35 deal with the North (p. 98-123). An alphabetic index of places is appended.

**Copy seen:** DLC.

**23626. LAMY, EDOUARD.** Mollusques et brachiopodes de la croisière 1912 du *Pourquoi-Pas?* dans les mers du nord. (Paris. Muséum National d'Histoire Naturelle. Bulletin, 1913. t. 19, p. 21-24) **Title tr.:** Molluscs and brachiopods from

the cruise of the *Pourquoi-Pas?* in northern seas, 1912.

Contains lists for seven stations giving locations, depth, type of bottom and numbers of each species taken; includes two localities just south of Jan Mayen, one between Jan Mayen and Iceland, and one in Denmark Strait.

**Copy seen:** DSI-M.

**23627. LAMY, EDOUARD.** Mollusques testacés et brachiopodes de la croisière 1913 du *Pourquoi-Pas?* dans l'Atlantique et dans les mers boréales. (Paris. Muséum National d'Histoire Naturelle. Bulletin, 1913. t. 19, p. 593-603) **Title tr.:** Testaceous molluscs and brachiopods from the *Pourquoi-Pas?* cruise of 1913, in the Atlantic and boreal seas.

Of the stations represented (with depths and species taken), fourteen are in Jan Mayen or Icelandic waters.

**Copy seen:** DSI-M.

**23628. LANDERKIN, G. B., and others.** A study of the antibiotic activity of actinomycetes from soils of northern Canada. (Canadian journal of research, Dec. 1950. v. 28, sect. C, no. 6, p. 690-98, illus. plate, tables, diagrs.) **Other authors:** Jane R. G. Smith, and A. G. Lochhead.

Contains a study based on 660 cultures of this important group of microorganisms normally occurring in the soil. The cultures were isolated in five localities, four of them in the arctic region. 68.2 per cent showed antagonism against at least one out of eight test organisms, consisting of five bacteria and three plant pathogenic fungi. Bibliography (19 items).

**Copy seen:** DLC.

**23629. LANDIN, BENGT-OLOF.** Ein für Europa neuer *Hepialus*. (Entomologisk tidskrift, 1943. Årg. 64, häft. 3-4, p. 165-66, illus.) **Title tr.:** A *Hepialus* new to Europe.

Contains a diagnosis of *Hepialus fuscoargenteus postmaculatus* n. subsp., described from the specimen of this moth found by the author on an alpine meadow in Njula, Torne Lappmark; this form is new to the lepidopterous fauna of Europe.

**Copy seen:** DA; MH-A.

**23630. LANDIN, BENGT-OLOF.** Några intressanta skalbaggsfynd. (Entomologisk tidskrift, 1945. Årg. 66, häft. 1-2, p. 57-64, illus.) **Title tr.:** Some interesting finds of coleoptera.

Contains critical notes on 19 beetles

found in 1942-44, which are rare or new to some regions; includes 7 species from Swedish Lapland (Abisko, Torneträsk, Karesuando) and northern Norway.

**Copy seen:** DA; MH-Z.

**23631. LANDIN, BENGT-OLOF.** Studier över släktet *Aphodius* Illiger (Col. Scarab.). (Entomologisk tidskrift, 1946. Årg. 67, häft. 1-2, p. 66-75, illus.) **Title tr.:** Studies of the genus *Aphodius* Illiger (Col. Scarab.)

Contains a critical revision of four species of dung beetles of the genus *Aphodius* native to Scandinavia, with a key and data on morphology, taxonomy and geographic distribution; includes *A. sphacelatus* occurring in Nordland, Norway and in Finnish Lapland. Summary in German.

**Copy seen:** DA; MH-Z.

**23632. LANDIN, BENGT-OLOF.** Zur Systematik der Gattung *Aphodius* Illiger (Col. Scarab.). (Opuscula entomologica, 1946. Bd. 11, häft. 1-2, p. 87-93, illus.) **Title tr.:** On systematics of the genus *Aphodius* Illiger (Col. Scarab.).

Contains a key to 6 Swedish species of coleopterous genus *Aphodius* and critical notes on 2 beetles of the genus, *A. (Agriinus) nemoralis* and *A. piceus*, the latter native to Norrbotten and Swedish Lapland.

**Copy seen:** DA; MH-Z.

**LANDIS, E. M.,** see Brown, E., & E. M. Landis. Effect local cooling on fluid movement. 1947. No. 20950.

**23633. LANDROCK, K.** Zur Synonymie der Mycetophiliden. (Konowia, 1922. Bd. 1, Hefte 4-5, p. 190-94) **Title tr.:** A contribution to the synonymy of Mycetophilidae.

Contains a study of the synonymy of some dipters of the fam. Mycetophilidae, including *Macrocera zetterstedti* Lundst (= *nana* Zett. = *lapponica* Land.) native to Swedish Lapland. **Copy seen:** MH-Z.

**23634. LANDSDELL, HENRY, 1841-1919.** Through Siberia. 3rd ed. Boston, Houghton, Mifflin and Co., 1882. xxiv, 811 p. fold. map, illus., 16 plates.

Contains an account of the author's journey Apr.-Sept. 1879, from St. Petersburg across Central Siberia to Vladivostok to visit prisons and penal institutions for philanthropic and religious purposes. He includes extensive descriptions of local conditions and popula-

tion, particularly non-Russian natives, based on local documents and information through interpreters, also on published works of Nordenskiöld and others. Though his most northerly traveling was down the Irtysh to its confluence with the Ob', he describes aboriginal peoples who extend into northern regions of Russia: Voguls, Ostyaks, Tungus, Yakuts, Gilyaks, Chukchis, Kamchadals, Koryaks, etc., noting their number, living conditions, physical characteristics, food and other habits. **Copy seen:** DLC; InU.

**23635. LANE, ALBERT L.** The Alcan highway; road location and construction methods. (Military engineer, Oct. 1942. v. 34, p. 492-99, illus., diags.)

Contains detailed, technical description of actual procedures followed in locating a section of the road, by use of aerial photographs and ground reconnaissance.

**Copy seen:** DLC.

**23636. LANE, ALBERT L.** The Alcan military highway; problems of location. (Civil engineering, Mar. 1943. v. 13, p. 135-38, illus.)

Paper read before the annual meeting of the American Society of Civil Engineers, New York, Jan. 1943. "Description of a few of the problems encountered on the Fort Nelson - Lower Post section" of the Alaska Highway, and the method of road location by aerial photographs.

**Copy seen:** DGS.

**23637. LANE, FERDINAND C., 1885-.** Earth's grandest rivers. New York, Doubleday & Company, Inc., 1949. xii, 1 l., 305 p., 6 maps.

Geography for the layman, with introductory material on length, area, discharge, and geologic work of rivers, their history as a physical feature, magnitudes, volumes, and problems of geographic nomenclature. In the main part of the book, the author describes the human geography of 38 great rivers of the world, including the Yenisey, Ob, and Lena (p. 39-54); the Yukon (p. 212-18); the Mackenzie (p. 219-24); the Churchill and Nelson-Saskatchewan (p. 224-31). Finally are two chapters on river types and problems, and man's economy in relation to river use and control. Indexed.

**Copy seen:** DLC.

**23638. LANG, ARTHUR HAMILTON, 1905-.** Canadian deposits of uranium and thorium, interim account. Ottawa,

1951. vii, 157 p., fold. map, fold. table. (Canada. Geological Survey. Paper 51-10) Mimeographed.

Contains general section (p. 10-40) on types of Canadian radioactive minerals and deposits, the distribution of these deposits, ages and origin of mineralization, economic considerations, prospecting and exploration. Then follow descriptions of areas and properties (p. 41-139) including Yukon Territory (p. 41) and Northwest Territories (p. 47-64). Bibliography (107 items).

Copy seen: DGS.

23639. LANG, ARTHUR HAMILTON, 1905-. Summary account of Canadian uranium deposits. (Canadian mining and metallurgical bulletin, Aug. 1950. v. 43, p. 426-33, sketch map, tables; also in: Canadian Institute of Mining and Metallurgy. Transactions, 1950. v. 53, p. 289-96)

Contains short account of the mineralogy of uranium and of types and distribution of occurrences; regional descriptions, including Mackenzie District, and possibilities of prospecting and development. Bibliography (16 items).

Copy seen: DGS.

23640. LANG, KARL. *Priapulus caudatus* Lam. and *Priapulus caudatus*, forma *tuberculato-spinosus* Baird represent two different species. (Arkiv för zoologi, 1951. Ser. 2, Bd. 2, nr. 11, p. 565-68, illus.)

Contains a taxonomic study of the identity of two marine worms of bipolar genus *Priapulus*.

Copy seen: DSI-M; MH-Z.

23641. LANG, KARL. Schwedische Süßwasser- und Moosharpacticiden. (Arkiv för zoologi, 1931. Bd. 22 A, no. 17, p. 1-84, illus.) Title tr.: Swedish freshwater and sphagnum Harpacticidae.

Contains in the first part of this work, a study of the systematics and morphology of minute crustaceans of the fam. Harpacticidae, living in fresh-water basins and peat-bogs of Sweden, with descriptions and comparative tables. In the second part, data are given on geographic distribution, and ecological formations of 14 species of Scandinavian Harpacticidae; bibliography (90 items). The majority of the species are native to northern Scandinavia, the Kola Peninsula and Greenland.

Copy seen: DSI-M; MH-Z.

23642. LANGE, BADIL. The genus *Sphagnum* in Greenland. (Bryologist, June 1952. v. 55, no. 2, p. 117-26)

Contains an account of this moss based on the very extensive Greenland *Sphagnum* collections in the Botanical Museum of the University of Copenhagen; 22 species are dealt with; the northern limits of each species are given together with localities of finds, earlier observations, frequency, etc. Bibliography (22 items).

Copy seen: DA.

23643. LANGE, JOHAN MARTIN CHRISTIAN, 1818-1898. Studier til Grønlands flora. (Botanisk tidsskrift, 1880-81. Bd. 12, p. 132-57, 1-13) Title tr.: Studies on the flora of Greenland.

Contains a botanical and statistical study of the flora of Greenland and comparison with the floras of other arctic regions with list of species common to Greenland and the respective region. Characteristics, endemism, the number of species, genera and families of Greenland flora are discussed. Summary in French, 13 p. at end of vol.

Copy seen: DLC; MH-A.

23644. LANGE, KURT, and L. J. BOYD. The functional pathology of experimental frostbite and prevention of subsequent gangrene. (Surgery, gynecology and obstetrics, Apr. 1945. v. 80, p. 346-50, table)

Contains a report on the effects of mild local hypothermia (in man) and severe local hypothermia (in rabbits); the latter was followed by a period of "complete restoration of circulation and increased capillary permeability," subsequently to give way to capillary and arteriolar occlusion and gangrene. Heparin, administered during the period of circulatory restoration, is claimed to have prevented gangrene in all cases, while the controls had complete gangrene. Bibliography (11 items). Abstract by J. R. Learmonth in *Bulletin of war medicine*, Aug. 1945. v. 5, no. 12, p. 748-49). Copy seen: DLC.

23645. LANGE, KURT, and others. The functional pathology of experimental immersion foot. (American heart journal, Feb. 1948. v. 35, p. 238-47, 7 fig.) Other authors: D. Weiner, and L. J. Boyd.

Contains a report on experiments with rabbits having an extremity immersed in water of 3°-8° C; rectal temperatures, temperature of the cooled leg, respiratory rate and electrocardiograms were taken. Pathological and other changes are dis-

cussed and compared with those in frostbite.

**Copy seen:** DLC.

**23646. LANGE, KURT, and others.** The functional pathology of frostbite and the prevention of gangrene in experimental animals and humans. (Science, Aug. 10, 1945. v. 102, p. 151-52) *Other authors:* L. J. Boyd, and L. Loewe.

*Contains a study on experimental local frostbite using fluorescein as indicator of blood flow; this indicated that thrombus formation and gangrene are preceded by clumping of blood cells. Heparinization prevented the latter and appearance of gangrene in rabbits and in humans. Bibliography (8 items).*

**Copy seen:** DLC.

**23647. LANGE, KURT, and others.** Studies on the mechanism of cardiac injury in experimental hypothermia. (Annals of internal medicine, 1949. v. 31, p. 989-1002, 8 fig., 5 tables) *Other authors:* D. Weiner, and M. M. A. Gold.

*Contains a study on rabbits with local or general experimental hypothermia. Lowering of body temperature was accompanied by a proportional fall in pulse rate, the latter dependent on the direct effect of cold on the pacemaker or its governors; the changes in P-R interval and the QRS complex showed also a roughly proportional relation to fall of body temperature; they also seem to be directly dependent on the effect of temperature on the specific conduction system; the length of systole increased markedly but not in a linear relation with cold, and is largely produced by direct influence of low temperature on the muscle; the T wave changes during hypothermia are entirely the result of anoxia. Bibliography (13 items).*

**Copy seen:** DLC.

**23648. LANGE, KURT, and L. LOEWE.** Subcutaneous heparin in the Pitkin menstruum for the treatment of experimental human frostbite. (Surgery, gynecology and obstetrics, Mar. 1946. v. 82, p. 256-60, 10 fig., graphs, table)

*Contains a discussion of the functional pathology of frostbite and, based on it, heparin therapy of cold lesions is recommended. Eight volunteers with small areas of frostbite treated subcutaneously with heparin, suffered no loss of tissue, while the control lesions showed central necrosis. Bibliography (9 items). Abstract by J. R. Learmonth in Bulletin of*

*war medicine*, June 1946, v. 6, no. 10, p. 428.

**Copy seen:** DLC.

**LANGE, KURT, see also Friedman, N. B., & K. Lange.** Pathology experimental frostbite. 1948. No. 21949.

**LANGE, KURT, see also Pichotka, J., & R. B. Lewis.** Use heparin in treatment experimental frostbite. 1949. No. 25087.

**LANGE, KURT, see also Weiner, D., & others.** Mechanism of cardiac injury in hypothermia. 1949. No. 27308.

**LANGOHR, JOHN L., see Rosenfeld, L., & others.** Circulation of blood & lymph in frostbite, experimental study. 1949. No. 25656.

**LANGUEPIN, J. J., see Victor, P. É.** Groenland 1948-1949. 1951. No. 27102.

**23649. LANKIALA, EERO.** Eine neue Aegeriide (Lepid.) aus Finnland. (Notulae entomologicae, 1922. v. 2, no. 3, p. 82-84, illus.) *Title tr.:* A new *Aegeria* (Lepid.) from Finland.

*Contains a description of a new lepidopter, Aegeria (Sphecia) montelli n. sp. described from two specimens, one from Kuopio (63° N.) and another from Muonio, Finnish Lapland (68° N.) and comparison with two related species.*

**Copy seen:** DLC; MH-Z

**23650. LANKIALA, EERO.** Eine neue arktische *Schöyenia*-Art (Lep., Noctuidae) aus Finnisch-Lappland. (Suomen hyönteistieteellinen aikakauskirja, 1937. 3:1, p. 13-17, diagr. plate) *Title tr.:* A new arctic species of *Schöyenia* from Finnish Lapland.

*A detailed description of this new moth.*

**Copy seen:** DLC.

**23651. LANKIALA, EERO, and V. J. KARVONEN.** Die Pyralidenfauna Finnlands. (Notulae entomologicae, 1927. v. 7, no. 2, p. 33-42) *Title tr.:* Pyralidae fauna of Finland.

*Contains a systematic list of 128 species of small lepidoptera of the family Pyralidae, occurring in Finland, with data on distribution in provinces; including some species native to Finnish Lapland.*

**Copy seen:** DLC; MH-Z.

**23652. LANSIN, V. A.** Vozrast, temp rosta i plodovitost' *Eleginus navaga* (Koelreuter). (Zoologicheskii zhurnal, 1929. t. 9, vyp. 3, p. 103-121, diagrs.) *Title tr.:* Age, rate of growth and

productivity of *Eleginus navaga* (Koelreuter).

Contains a study of biology of *Eleginus navaga*, based on material from Mezen' Bay, the region which produced 70 per cent of the entire White Sea catch of this cod; with 16 tables of data for the years 1910-26. Summary in German.

**Copy seen:** DLC; MH-Z.

**23653. LANTIS, MARGARET, 1906-** . Mme. Eskimo proves herself an artist. (Natural history, Feb. 1950. v. 59, p. 68-71, illus.)

Description of the art work done by Nunivak Island Eskimo women, especially since 1920 when the coil technique in basket-making was introduced there.

**Copy seen:** DGS; DSI-M.

**23654. LANTIS, MARGARET, 1906-** . Present status of the Alaskan Eskimos. (In: Alaskan Science Conference . . . 1950. Selected papers 1952. p. 38-51, table)

Contains information on the number (15,700 in 1940) and distribution of Eskimos in Alaska; schools, hospitals, stores and cooperatives, missions, housing, occupation and income sources. The Eskimos' traditional native economy, its extinction in a money economy and industrialization, problems of acculturation, etc., are discussed. Research achievement and needs are summarized.

**Copy seen:** DAI; DLC.

**23655. LANTIS, MARGARET, 1906-** . The reindeer industry in Alaska. (Arctic, Apr. 1950. v. 3, p. 27-44, illus., map)

Documented analysis and history of the reindeer in Alaska from 1892 when the government imported domestic reindeer; Eskimo husbandry under government and mission auspices; commercial exploitation by Alaskan companies 1914-1939; and since 1939 the rehabilitation of the reindeer industry for benefit of the Eskimo, by the Reindeer Service of the Alaska Native Service. Includes discussion of herding problems: coast-dwelling Eskimos' adaptation to inland herders' life, forage, pests, predators; technical and economic problems of slaughter and marketing meat, use of hides, etc.; data on size and distribution of herds. Remarks on Eskimos' interest in the reindeer business and ten recommendations for development of herds, exploitation of local markets for reindeer products, and restriction of reindeer

business to native people for 15-20 years. Bibliography (12 items).

**Copy seen:** CaMAI; DLC.

**23656. LANTIS, MARGARET, 1906-** . The religion of the Eskimos. (In: Ferm, V. T. A., Forgotten religions. New York, Philosophical Library, 1950. p. 311-39)

Despite the extensive geographic range of their territory and the isolation of some groups, all divisions of Eskimos have a religion uniform in essentials, with regional differences principally of emphasis and elaboration. Author discusses these essentials, noting occasionally regional differences, under the headings: shamanism, cosmology, society and religion. Eskimos of Greenland, Canada, Alaska and Northwest Asia are included in, and Aleuts excluded from the survey. In description of the process of becoming a shaman and of the shamanistic performance, and analysis of the nature of the shamanistic experience and function, author suggests that the shaman's may be a schizophrenic experience though controlled, accepted by the community as a medium through which supernatural powers can be brought to help in human problems. Eskimos' attitude to life, their morality, and beliefs in regard to dieties, human souls, death, and illness, the social importance of ceremonials as "one of the principal means of instructing the young and achieving cooperation and conformity," are discussed and exemplified. In summary author characterizes Eskimo religion, its symbolism of fluidity, individualism without aggressiveness, a "here-and-now orientation," etc., as "strong and satisfying to last through long migrations and subsequent isolation." Bibliography (30 items).

**Copy seen:** DLC.

**23657. LANTIS, MARGARET, 1906-** . Security for Alaskan Eskimos. (American Indian, 1950. v. 4, p. 32-40)

This is a revision of Dr. Lantis' paper for the Second Inter-American Conference on Indian Life, Cuzco, Peru, 1949. See *Arctic Bibliography*, No. 9674.

**Copy seen:** DLC.

**LANTIS, MARGARET, 1906-** , see also Sanders, I. T. Societies around the world. 1952. No. 25824.

**23658. DER LAPPE UND DAS KEN.** Leipzig, R. Voigtländer [1925] 63 p., illus. (Voigtländers d.

24) "Vorrede" signed: Erwin C. Banck.  
**Title tr.:** The Lapp and the reindeer.

A popular description of Lapland, the Lapps, their race, language and way of life. A detailed account of the reindeer and its place in Lappish economy follows.

**Copy seen:** DLC.

**23659. LAPPI-SEPPÄLÄ, M.** Tutkimuksia Siperialaisen lehtikuusen kasvusta Suomessa. Helsinki, 1927. 72 p., plates, diags., tables. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 12:3)

**Title tr.:** Investigations on the growth of the Siberian larch in Finland.

**Contains** discussion of the natural distribution-area of this larch, a typical tree of the heath forests of the northern coniferous forest zone. Earlier studies on its growth in other areas are noted. The areas studied and methods applied are described and data given on the larch's growth in Finland. Bibliography (38 items). Summary in German.

**Copy seen:** DLC.

**23660. LAQUIST, BIRGIT.** Observations concerning the band-weaving of the Swedish Lapps. (Ethnos, Stockholm, 1947. Bd. 12, no. 3, p. 123-26, 4 illus.)

**Contains** notes on two different techniques used for band weaving, both with heddles.

**Copy seen:** DSI-M; InU.

**23661. LARGE, ALFRED, and P. HEINBECKER.** Effect of cooling on wound healing. (Annals of surgery, Nov. 1944. v. 120, no. 5, p. 727-41, 6 fig.)

**Contains** a report on experiments with dogs, with incised wounds of the skin and subcutaneous tissue of the forelimbs; exposure to a temperature of 6° C. for 24-72 hours showed no reaction to the injury and consequently a definite lag in wound healing when compared with opposite, not chilled limbs; the degree of delay varied with the duration of the cooling period. Bibliography (14 items). Abstract by W. Blackwood in *Bulletin of war medicine*, May 1945. v. 5, no. 9, p. 554.

**Copy seen:** DLC.

**23662. LARGE, ALFRED, and P. HEINBECKER.** Nerve degeneration following prolonged cooling of an extremity. (Annals of surgery, Nov. 1944. v. 120, no. 5, p. 742-49, 6 fig.)

**Contains** a study on the effect of prolonged immersion of dogs' extremity in water of 6° C. It resulted in edema and temporary depression of sensory and motor function of the exposed part, fol-

lowed by varying degrees of degeneration of the nerves; the latter is attributed to ischemia in the exposed limb, caused by cooling. Bibliography (9 items). Abstract by W. Blackwood in *Bulletin of war medicine*, May 1945. v. 5, no. 9, p. 554.

**Copy seen:** DLC.

**23663. LARIONOV, P.** Èkologicheskie nablûdeniia nad fakutskim dlinnokhlostym suslikom (*Citellus eversmanni jacutensis* Brandt). (Zoologicheskii zhurnal, 1943. t. 22, vyp. 1, p. 234-46, illus.)

**Title tr.:** Contribution to the ecology of the long-tailed Yakut ground-squirrel.

**Contains** data on habitats, population density, burrow structure, seasonal variations in behavior and body weight, reproduction, diurnal activity, hibernating, enemies and parasites of the long-tailed ground-squirrel (spermophile) of Yakutia (Lena River), a dangerous pest of the grain crops. Summary in English.

**Copy seen:** MH-Z.

**23664. LARMOUR, W. T.** Eskimo education. (Arctic circular, Nov. 1950. v. 3, p. 50-55)

**Brief** discussion of problems peculiar to schools for Eskimos, such as the natives' nomadic customs, seasonal occupations, etc.; descriptions of the six schools for Eskimos at Coppermine, Cape Dorset, Fort Chimo, Coral Harbour, Port Harrison, and Port Brabant. Notes on salaries and civil service status of the white teachers, school equipment, cooperation with National Health Centres, techniques in teaching, extra-mural activities, marketing of native handicrafts by the Canadian Handicrafts Guild; school food service; and mention of missions' day schools.

**Copy seen:** CaMAI.

**23665. LARMOUR, W. T.** Thar she blows. (Forest and outdoors, Jan. 1949. v. 45, no. 1, p. 8-9, 26, illus.)

**Contains** information on Canadian whale species of low numbers or close to extinction; decline of Canadian whaling; uses of whale oil; international whale-protecting measures; their application in Canada; the Canadian beluga and its exploitation; rate of reproduction of some whales; modern hunting methods; recent data on world-wide whaling.

**Copy seen:** DA.

**23666. LAROSE, P.** The effect of wind on the thermal resistance of clothing with special reference to the protection given

by coverall fabrics of various permeabilities. (Canadian journal of research, Sect. A, Physical sciences, July 1947. v. 25, p. 169-90, 4 fig., 11 tables)

Contains a study on thermal resistance of pile fabric (with or without a thin, woven cover) to wind up to 30 m. p. h., striking the surface at various angles. The permeability of the covers varied widely; the results indicate that at low wind velocities, this permeability is of relatively little importance but at high velocities, it is advantageous to employ a covering fabric of the lowest possible permeability. Bibliography (11 items).

**Copy seen:** DLC.

**23667. LARSEN, ANDERS, 1870-1949.** Om Sjøsamene. Tromsø, 1950. 64, [1] p., diagr. (Tromsø, Norway. Museum. Arshæfter, 1947. Bd. 70, no. 2. Humanistisk avd. no. 13) **Title tr.:** Maritime Lapps.

Translated from the Lappish by J. Qvigstad, a study of the material, social and spiritual culture of Lappish groups along the northern coast, related to, but differing socially and psychologically from the nomadic Reindeer Lapps. On the basis of long acquaintance with Lapps of both cultures, the author gives descriptions and comments on the Maritime Lapps' clothing, bedclothes, dwellings, food and cooking, outdoor and indoor work, wolf-hunting and fishing, customs, competition, games and amusements, courtship, marriage and family medical knowledge, myths and beliefs, the trolls, songs, school and church influences on Lappish life, natural abilities and talents of the Maritime Lapps.

**Copy seen:** DGS.

**23668. LARSEN, HELGE EYVIN, 1905-** . Archaeological investigations in southwestern Alaska. (American antiquity, Jan. 1950. v. 15, no. 3, p. 177-186, illus.)

Contains a preliminary report on excavations from seven sites in the Bristol Bay-Kuskokwim Bay area conducted in 1948 with the aid of the Arctic Institute of North America, the U. S. Office of Naval Research and other agencies. Five hitherto unknown stages of Eskimo culture were found. The differences between earlier and later cultures, found in this area are discussed and compared with those at Point Hope. General criteria for distinguishing Paleo- from Neo-Eskimo cultures are proposed on the

basis of the present finds. The latter also suggests that the Neo-Eskimo culture spread beyond Norton Bay as far as the Pacific, and that potsherds may be used as time indicators and may have further significance (in cultural affiliations) than previously assumed. Bibliography (9 items).

**Copy seen:** DAI; DSI-M.

**23669. LARSEN, HELGE EYVIN, 1905-** . De dansk-amerikanske Alaska-ekspeditioner 1949-50. (Geografisk tidsskrift, København, 1951. Bd. 51, p. 63-93, illus., sketch map) **Title tr.:** The Danish-American Alaska Expeditions, 1949-50.

Contains a summary of archeologic investigations carried out by the University of Alaska and the Danish National Museum beginning in 1939, and a report on new discoveries of the paleo-eskimo cultures, Ipiutak and Cape Denbigh Flint Complex, made at Point Spencer, Deering, Trail Creek, Cape Denbigh, and Anaktuvuk Pass (Endicott Mts.) during 1949-50. Summary in English, p. 92-93.

**Copy seen:** DGS; DLC.

**23670. LARSEN, HELGE EYVIN, 1905-** . Grønlaenderne. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 1, p. 205-252, illus., incl. map, diagr.) **Title tr.:** The Greenlanders.

Summary of present-day knowledge and opinion concerning the origin and interrelationship of ancient Eskimo cultures; the archeological evidences of prehistoric Greenlandic peoples; Eskimo cultures at the beginning of colonization of Greenland, i. e. in the historical period; remarks (in brief) on the Greenlanders of today. Bibliography (12 items).

**Copy seen:** DSI-M.

**23671. LARSEN, HENRY ASBJORN.** The North-West Passage 1940-1942 and 1944; the famous voyages of the Royal Canadian Mounted Police schooner "St. Roch." Vancouver, Canada, City Archives, 1948. 47 p., illus., ports., 2 maps.

Contains a history (in brief) of the St. Roch from her building at Vancouver in 1928; outline of the duties of the R. C. M. Police in arctic territories; narrative of St. Roch's trip, June 23-Sept. 25, 1940, from Vancouver to Walker Bay on the west coast Victoria Island, the wintering there till July 31, 1941, continuation of the trip by Coronation Gulf, Ross, Franklin Straits, Prince Regent Inlet to Lancaster Sound. The east-to-west trip

from Halifax, N. S., July 25-Oct. 16, 1944, navigating a Northwest Passage by the more northerly route: Lancaster Sound-Barrow Strait, Viscount Melville Sound and Prince of Wales Strait, is also described.

**Copy seen:** DAI; CaBV.

**LARSEN, HENRY ASBJORN**, *see also* Cyriax, R. J. Recently discovered traces Franklin Expedition. 1951. No. 21320.

**23672. LARSEN, KAI**. Some floristic notes from S. W. Greenland. (Botanisk tidsskrift, 1952. Bd. 49, hefte 2, p. 199-200)

Contains a simple list of about 80 species of flowering plants and vascular cryptogams, collected by the author in five localities in southwestern Greenland during the expedition arranged by the Danish Geodetic Institute in the summer of 1947.

**Copy seen:** MH-A.

**23673. LARSEN, KAI**. Udbredelsen i Grønland af *Cystopteris fragilis* coll. med piggede og votede sporer. (Botanisk tidsskrift, 1952. Bd. 49, hefte 1, p. 39-43, text map) **Title tr.:** The Greenland distribution of *Cystopteris fragilis* coll. with spiny and verrucose spores.

Contains a phytogeographic study of distribution in East and West Greenland of two types of ferns: *Dickieana*-type and *Cystopteris fragilis* with spiny spores.

**Copy seen:** MH-A.

**LARSEN, KAI**, *see also* Böcher, T. W., & K. Larsen. Chromosome numbers arctic or boreal flowering plants. 1950. No. 20759.

**23674. LaRUE, E. AUBERT de**. Quelques aspects du Labrador. (La Nature, fév.-avr. 1950. p. 47-51, 80-84, 97-101, illus., map) **Title tr.:** Some aspects of Labrador.

Brief characterization of the physiography, climate, ice conditions, scientific exploration, geology, vegetation, peoples and natural resources of Labrador and northern Quebec.

**Copy seen:** DSI-M.

**23675. LASCELLES, TONY**. Wolverine, "devil of the woods." (Forest and outdoors, 1944. v. 40, p. 15-16, illus.)

Contains a description of this largest representative of the weasel family, including: size, weight, color, sexual differences, the young, food, etc.; also its fur; its destructiveness, especially to the trappers; and its cunning in avoiding destruction by man.

**Copy seen:** DA.

**23676. LASSILA, I.** Tutkimuksia mäntymetsien synnystä ja kehityksestä pohjoisen napapiirin Pohjoispuolella. Helsinki, 1920. vi, 95, [3] p., tables, diagrams. (Acta forestalia fennica, 14:3) **Title tr.:** Studies of the formation and development of pine forests north of the Arctic Circle.

Based on field work 1911-1918 in eleven localities in northern Finland (to 69°30' N. lat.). The nature of the area, snow, storms, temperature, wind, rain, visibility, altitude, and soil are described. Data are given on (1) the cone years: their significance, appearing and opening of the cones, basis for determining amount of seeds and significance of the seed fall; (2) the new plant growth years: the clustering of new growth, causes of such years; (3) the snow cover and ice crust as dangers to seedlings, damage by reindeer; (4) best cutting methods for the localities investigated. Summary in German.

**Copy seen:** DLC.

**LAST, J. H.**, *see* Keeton, R. W., & others. Tolerance of man to cold: proteins. 1946. No. 23178.

**23677. LATARJET, RAYMOND**. Lapponie, récit d'un voyage. Paris, René Julliard, 1946. 238 p., plates, fold. maps **Title tr.:** Lapland, story of a journey.

Story of a vacation trip made by the author and his brother, both students, starting in July 1939. It led through northern Norway into Finnish and Swedish Lapland and back home through Finland. The narrative includes the young men's impressions of Lapps and their customs, life and nature of the tundra, etc.

**Copy seen:** DLC.

**23678. LATKIN, NIKOLAI VASIL'EVICH, 1833-1904.** Iŭkagiry. (In: Ènsiklopedicheskiĭ slovar', 1890-1904. v. 41, p. 328-29) **Title tr.:** The Yukagirs.

Account of the remnants of a disappearing tribe occupying the Kolyma district of Yakutia; their nomadic migrations, physical characteristics; traditional religion, their way of living: hunting, fishing, reindeer-breeding; tents and clothing: the parka; food, implements and weapons; their folklore, sociability and hospitality; their wars, etc.

**Copy seen:** DLC.

**23679. LATKIN, NIKOLAI VASIL'EVICH, 1833-1904.** Iŭraki. (In: Ènsiklopedicheskiĭ slovar', 1890-1904. v. 41, p. 408) **Title tr.:** The Yuraks.

Brief sketch of this small (about 400) nomadic Samoyed group living on the tundras around the Yenisey estuary and lower Taz basin; their racial and psychological characteristics; story-telling and songs; christianization, traditional religion and shamanism; their fishing, hunting and reindeer husbandry; transportation by reindeer and dogs; their food, clothing and dwellings; Russian expeditions into the Yuraks' area and their exploitation. **Copy seen:** DLC.

**23680. LAUDON, LOWELL ROBERT, 1905-** Imperial River section, Mackenzie Mountains, Northwest Territories, Canada. (American Association of Petroleum Geologists. Bulletin, July 1950. v. 34, p. 1565-77, incl. 4 p. of diagrs., sketch map)

*Contains* description of "an excellently exposed section . . . involving . . . two Cambrian formations, Macdougall at the base and an unnamed formation at the top, two Silurian formations, the Ronning followed by the Bear Rock, and three Devonian formations, Ramparts, Fort Creek, and Imperial," in a region lying across the 128° W. meridian at about 65°05' N.—From the author's abstract. **Copy seen:** DGS.

**23681. LAUGHLIN, WILLIAM S.** The Alaska gateway viewed from the Aleutian Islands. (*In:* Viking Fund Summer Seminar in Physical Anthropology. 4th, Sept. 1949. Papers on . . . the American Indian, 1951. p. 98-126)

*Contains* sections on prehistoric skeletal populations, anthropometry of living Aleuts, Aleut dentition, blood groups, relation of the Aleuts to the Eskimos, implications of population size and blood groups; conclusions: blood grouping as well as general morphology indicate a closest affiliation of the Aleuts with the Eskimos; actually, both eastern and western Aleuts may be considered as morphological variants of the Eskimos; this also harmonizes with their cultural and linguistic affiliations. Two breeding isolates of the Aleuts are discernible as well as traits of an older pre-Aleut population, the latter in the western Aleuts. Bibliography (18 items).

**Copy seen:** DAI.

**23682. LAUGHLIN, WILLIAM S.** The Aleut-Eskimo community. (Alaska. University. Anthropological papers, 1952. v. 1, no. 1, p. 25-48, 3 plates)

*Contains* paper on the relationship

between the Aleuts and Eskimo: the question of their social and linguistic unity, and the variability in material culture are discussed. "Specifically, this involves a study of those elements which set these people apart as a distinct population, a study of those elements common to all the divisions of the people and, following this, a consideration of the factors of internal change which are primarily responsible for the variations within the stock. Viewed in time depth, these changes are manifested racially in the development of a brachycephalic population from an originally mesocephalic population, linguistically by the differentiation into languages and dialects, and in the material culture by the abandonment of the core and blade industry and the innovation of many mechanical adaptations."—From author's summary. Bibliography (23 items).

**Copy seen:** DLC.

**23683. LAUGHLIN, WILLIAM S.** Blood groups, morphology and population size of the Eskimos. (Cold Spring Harbor Symposia on Quantitative Biology, 1950. v. 15, p. 165-73)

A study based on numerous sources and investigations of many Eskimo populations. The author stresses that conclusions based on studies of small populations are misleading due to rapid changes the latter undergo as a result of genetic drift, selection and reproduction. By contrast, data obtained from large population groups show a great similarity of blood groups among Eskimos over the whole extent of their geographical range. Similarly, Eskimos as a whole are relatively homogeneous with respect to such physical characteristics as: large head, face and lower jaw, medium or sub-medium stature with relatively great sitting height; small hands and feet and a generally Mongoloid physiognomy.

**Copy seen:** CaMAI; DLC.

**23684. LAUGHLIN, WILLIAM S.** Contemporary problems in the anthropology of southern Alaska. (*In:* Alaskan Science Conference . . . 1950. Selected papers, 1952. p. 66-84, map)

*Contains* analyses of evidence of an early Eskimo homeland in southwestern Alaska; the relation of the three branches of Eskimo linguistic stock, Inupik and Yupik dialects, mutually intelligible, but Aleut not so, and its implications in regard to Eskimo migrations and early

occupation of southern Alaska. Anthropological, anthropometric blood-group and population studies are surveyed and the status of archeology and ethnology appraised in relation to immediate problems and needed research. Bibliography (17 items). *Copy seen:* DAI; DLC.

**23685. LAUGHLIN, WILLIAM S., and G. H. MARSH.** A new view of the history of the Aleutians. (Arctic, Sept. 1951. v. 4, p. 75-88, illus.) Reprinted in: Yearbook of physical anthropology, 1951, pub. by Wenner-Gren Foundation for Anthropological Research, Inc., New York. v. 7, p. 60-74; illus.

Account of work conducted during preceding three summers by parties of anthropologists, archeologists and medical workers, at Nikolski village on Umnak Island, at Atka on Atka Island and at St. Paul Island in the Pribilofs. The results of this work are correlated with those of earlier investigators in a summary account of the physical anthropology, archeology, ethnology and linguistics of Aleuts. Conclusion: the Aleuts appear to have moved from the Alaskan mainland in two waves, one beginning 4,000 years ago, the other within the last 1,000 years and still continuing at the time of the Russian discovery of the area. The culture of the entire span of occupation was continuous. The great numbers of Aleuts and other Eskimos in southern Alaska possibly arose through a "population explosion" brought about by very favorable living conditions existing here when the first proto-Eskimos came south, along the west coast of Alaska. Of the 16,000 Aleuts estimated to have lived in the area prior to the white man's penetration, only 1,200 remain. Early massacres, exhaustion of marine resources, diseases, etc., all caused by Europeans, contributed to the decline of the population, which still continues. Bibliography (14 items). *Copy seen:* DLC.

**23686. LAUGHLIN, WILLIAM S.** Notes on an Aleutian core and blade industry. (American antiquity, July 1951. v. 17, no. 1, p. 52, 54-55, illus.)

The possibility of a culture earlier than paleo-Aleut is discussed in connection with a collection of artifacts from a hilltop on Ananiuliak Island, five miles north of Nikolsky Village (near Umnak Island, about 52°56'N. 168°53'W.) The artifacts collected in 1938 are illustrated and discussed.

*Copy seen:* DLC.

**LAUGHLIN, WILLIAM S.,** *see also* Viking Fund. Papers on the physical anthropology of the American Indian. 1951. No. 27106.

**23687. LAUKKANEN, ILMARI.** Petsamon asuttaminen. (Maanmittaus, 1926. v. 1, no. 3, p. 129-39) *Title tr.:* The colonization of Petsamo.

Contains a survey of the population and social conditions in the 10,600 square km. Petsamo area acquired by Finland in the peace treaty with Russia in 1920. Discussion on the development and utilization of this region; problems created by the diversity of population: seven nationalities, each with its characteristic culture and outlook; comment on lack of transportation, lumber and capital in the region which has hindered proper housing construction.

*Copy seen:* DLC.

**23688. LAUNIS, ARMAS.** Lappische Juoigos-Melodien; gesammelt und herausgegeben. Helsingfors, 1908. lxiv, 209 p. 712 musical examples. (Suomalaisugrilainen seura. Toimituksia, no. 26)

*Title tr.:* The melodies of the Lapp juoigos (songs); collected and edited.

The author visited Lapland twice (in 1904 and 1905), and noted 824 melodies, mostly in the parishes of Inari, Kautokeino, and Karasjok. He gives here a musical analysis of those melodies. The "juoigos" is a song about a certain person or object which has attracted the singer's attention. Such songs about rather prominent or ill-famed individuals may be laudatory or derisive in character, but the singer may not sing of himself. Both singers and auditors know to whom a song is addressed, and the subject of a derisive song becomes angry on hearing only the murmur of the melody of "his" song. The Lapps are not only apt at keeping to the tune, but are able to distinguish between two only slightly different airs. The melodies are more important than the texts which are unstable and often interwoven with interjections. The creators and bearers of "juoigos" are the mountain or reindeer Lapps, who make songs to relieve their loneliness and who have in mind also that wolves are scared away by the singing of a man. The religious sect of Laestadians, which eschews secular pleasures, has succeeded in silencing "juoigos" in some regions.

*Copy seen:* DLC; InU.

**23689. LAURSEN, DAN.** The stratigraphy of the marine Quaternary deposits in West Greenland. København, C. A. Reitzel, 1950. 142 p., illus. (inc. 7 sketch maps), 3 plates (1 map, 2 tables). (Meddelelser om Grønland. Bd. 151, nr. 1. Issued also as: Copenhagen. Universitet. Mineralogisk-geologiske museum. Communications geologiques, no. 41)

Contains results of field work done in 1939 and 1946 between Svartenhuk Peninsula and Sukkertoppen (64°-72°N. lat.) on the West Greenland coast: description of all localities visited with lists of shells collected; discussion of stratigraphy, examination of petrographic structure, the content of shells, and the levels of the various horizons; "an attempt at a correlation of the Quaternary marine layers of Greenland with the corresponding postglacial layers of Iceland, Norway, and Denmark." Bibliography (88 items).

**Copy seen:** DGS.

**LAURSEN, VIGGO,** see International Meteorological Organization. Bibliography 2d. Int. Polar Year 1932-33. 1951. No. 22824.

**LAVILA, T. O.,** see Korhonen, V. V., & T. O. Lavila. Periode mit Schneefällen Finland 1939. No. 23392.

**23690. LAVRENKO, EVGENIY MIKHAILOVICH, 1900-** . Osnovnye cherty botaniko-geograficheskogo razdeleniia SSSR i sopolredel'nykh stran. (Problemy botaniki, 1950, vyp. 1, p. 530-48, text map) **Title tr.:** Main characteristics of phytogeographic subdivisions of the U.S.S.R. and the adjoining countries.

Contains a discussion of a phytogeographic subdivision of Europe and Asia into ten zones, including arctic tundra zone (p. 533-35) and Eurasian taiga zone (p. 537-38), with descriptions and data on the limits of these zones (see map p. 534).

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**23691. LAVRENT'EVA, M. I.** Kul'tura kartofel'ia v usloviakh Pechorskogo zapovedn'ika. (Sad i ogorod, Apr. 1952, no. 4, p. 60-61, illus., table) **Title tr.:** Potato culture under conditions of the arctic Pechora region.

Contains information, based on experiments, on the time and depth of planting the potatoes, tillage; effect of planting time on the starch content; arrangement and kinds of windbreaks.

**Copy seen:** DLC.

**LAVROV, A. M.,** see Rabot, C., & P. Vittenburg. Poliarnye strany, 1914-1924. 1924. No. 25327.

**23692. LAVROV, K. P.** Commander Islands fur-seals and hunting for them. (Russian Far East; economic monthly (Tokyo) Oct. 1920, no. 1, p. 60-62) Issued also in Russian (with title: *Podshet stad i kolichestvo ubitoi kotikov na Komandorskikh ostrovakh*) in the first (Russian) section of this magazine, p. 73-75.

Contains note on number of seals according to census of 1884, 1896, 1900, 1904, 1910, 1914, and 1916; also on hunting under regulations of the international treaty of 1911, which had the effect of making the islands seem a preserve when statistics on post-treaty kill were compared with hunting data.

**Copy seen:** DGS.

**23693. LAVROV, K. P.** Fur trade in Russian Far East. (Russian Far East; economic monthly, Nov. 1920, no. 2, p. 1-12, illus., tables) Issued also in Russian (with title: *Pushnoi i okhotnich'ii promysla na Russkom Dal'nem Vostoke*) in the first (Russian) section of this magazine, p. 1-16.

Contains study of value, localities and kinds of furs, especially of Kamchatka, Commander Islands, Chukotsk-Kolymsk, and Okhotsk regions; with notes on methods, dress and numbers of hunters.

**Copy seen:** DGS.

**23693A. LAVROV, K. P.** Russian volunteer fleet and Kamchatka fisheries. (Russian Far East; economic monthly (Tokyo) Oct. 1920, no. 1, p. 16-19) Issued also in Russian (with title: *Dobrovol'nyi flot i rybpromyshlennost' na Kamchatke*) in the first (Russian) section of this magazine, p. 21-24.

"Aims to show the service of the volunteer fleet in fishing areas of Okhotsk and Kamchatka waters during the period 1917-1920." Gives data on tonnage from different cities and comparison of Russian and Japanese tonnage, with note on disruption of the industry by the revolution and subsequent use of Japanese ships by the fleet.

**Copy seen:** DGS.

**23694. LAVROV, N. P.** K biologii ondatry (*Fiber zibethicus* L.) (Zoologicheskii zhurnal, 1933, t. 12, vyp. 1, p. 86-100) **Title tr.:** The biology of the muskrat *Fiber zibethicus* L.

Contains a study of biology of the musk-

rat introduced from North America into the northern regions of the U. S. S. R. (Kola Peninsula, Arkhangel'sk province, northern Ural, Solovetskiye Islands, western Siberia and Yakutia). The investigation was carried out (on the Moscow farm for the breeding of wild animals) on muskrats brought from northern Canada and it was concerned mostly with the reproduction of these rodents. Summary in English. **Copied seen:** DLC; MH-Z.

**LAVROV, N. P.**, see also Naumov, S. P., & N. P. Lavrov. Biol. promyslovyykh zverei i ptits SSSR. 1948. No. 24593.

**23695. LAVROV, SERGEY DMITRIEVICH.** Vpechatleniya i nauchnye rezul'taty letniyego puteshestviya po Eniseiskoi tundre. Kazan, Tipolitogr. Universit., 1909. 31 p. (Kazan. Universitet. Obshchestvo estestvoispytatelei. Trudy. t. 41, vyp. 4) **Title tr.:** Impressions and scientific results of a summer trip over the Yenisey tundra.

Contains a general account of an expedition for the study of natural history of Turukhansk region (66°30'–73° N. lat.) carried out in the summer of 1908 on the sloop *Neva* from Krasnoyarsk to the mouth of Yenisey River, and sponsored by the Dept. of Agriculture. Includes notes on the flora and fauna and a systematic list of 4 mammals, 32 birds, 10 fishes and 4 crustaceans, with localities and data on habitat.

**Copied seen:** DLC; MH-Z.

**23696. LAVRSKIY, ARKADIY VALENTINOVICH.** Plagioklazovaya i augitovaya porodny mezhdu Eniseem i Lenoi. (Kazan', Universitet Obshchestvo estestvoispytatelei. Trudy, 1900. t. 34, vyp. 1, p. 1–117, I–III, 1–7, [1–2], plates 1–5, fold. map) **Title tr.:** Plagioclase-augite rock formations between the Yenisey and Lena.

Contains the results of investigation of materials collected by the A. L. Chekanovskiy Expedition in 1873–75 (see *Arctic Bibliography* No. 3032) in the Yenisey-Lena River region, including Nizhnyaya and Podkamennaya Tunguska, Olenek and Vilyuy Rivers (up to 70° N.); with a description of the explored region, data on its geological history, and stratigraphic relations; chemical analyses and microscopic study of petrographic material of plagioclase-augite formations, divided by the author into 13 groups;

various tables and a list of 114 locations. Summary in German.

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**23697. LAWRENCE, DONALD BUERMANN, 1911–** . Estimating dates of recent glacier advances and recession rates by studying tree growth layers. (American Geophysical Union. Transactions, Apr. 1950. v. 31, p. 243–48, illus.)

"Studies of tree rings from vicinity of glaciers provide evidence of year when glacier reached its farthest advance. Where trees have been tallest but not uprooted, the growth suddenly becomes eccentric, marking plainly date of tilting. Evidence from Alaska, British Columbia and the Pacific Northwest examined."—*Meteorological abstracts and bibliography*, Oct. 1950. v. 1, no. 10, p. 663.

**Copied seen:** DGS; DLC.

**23698. LAWRENCE, DONALD BUERMANN, 1911–** . Glacier fluctuation for six centuries in southeastern Alaska and its relation to solar activity. (Geographical review, Apr. 1950. v. 40, p. 191–223, illus., 5 maps)

The author, leader of the plant ecology unit of the Juneau Ice Field Research Project, 1949, based his studies on tree-growth layer investigations as indicators of advance and recession of glaciers. He describes individual glaciers and offers a tentative hypothesis on recent glacier periodicity based on sunspot minimum 1645–1715 and moraine formation. "Glaciers in the Juneau region have retreated 1.3 to 5 miles since 1765, before which they seem to have advanced in unison from some time before 1300. Similar conditions have occurred in the Glacier Bay, British Columbia and the Mt. Hood glacier fields. The accelerated retreat of all except Taku Glacier (which has advanced since 1900) during the past 75 years is attributed to increased solar activity—the advance up to 1765 to a dearth of sunspots for several hundred years. Many excellent photographs and charts of glaciers, and several periodograms relating glacial events to solar cycles are included."—*Meteorological abstracts and bibliography*, Nov. 1950. v. 1, no. 11, p. 728. Bibliography (44 items).

**Copied seen:** DGS; DLC.

**23699. LAWRENCE, DONALD BUERMANN, 1911–** . Recent glacier history of Glacier Bay, Alaska, and development of vegetation on deglaciated terrain with

special reference to the importance of alder in the succession. (*In: American Philosophical Society, Year Book, 1950, pub. 1951, p. 175-76*)

Contains brief report on experiments (in Southeast Alaska approx. 58°30' N. 136° W.) with a series of chemical and natural fertilizers and their effect on established saplings of cottonwood (*Populus trichocarpa hastata*). The experimental plots were laid out in summer 1949 on a till plain which had been ice-free for 12-20 years. Specimens of wood were also collected from interstadial fossil forests for age determination with radiocarbon in order to learn when and at what rate the glacier advance took place.

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**23700. LAWRENCE, EDWARD.** Syphilis: as an anthropologist sees it. (Medical press and circular, 1941. v. 205, p. 300-303)

Discussing the problem of the geographical origin of syphilis, the author quotes Hrdlička as claiming that there is no evidence that the disease originated in America. In Alaska the advent of the white man is known to a year (1743) and skeletons identified chronologically by the introduction of new (Russian) forms of burial and also of glass crockery and metals; "and it is only with these articles that commences the appearance of syphilitic and also tubercular lesions on the skulls and bones. Among the many hundreds of skeletons of older derivation, there is not a trace of any of these diseases." (Quoted from Hrdlička's letter to the author). Bibliography (16 items).

**Copy seen:** DSG.

**LAWROW, J. W.,** see Adolph, E. F., & J. W. Lawrow. Acclimatization cold air, hypothermia in hamster. 1951. No. 20042.

**LAWROW, J. W.,** see also Adolph, E. F. Oxygen consumptions of hypothermic rats & acclimatization to cold. 1950. No. 20045.

**23701. LAWS, R. M.** Seal-marking methods. (Polar record, Jan. 1952. v. 6, no. 43, p. 359-61)

Contains an outline (in brief) of methods of marking whales and seals, followed by description of (1) long-term marking by branding (with hot iron, caustics or knife-cuts) and tagging; (2) short-term marking (shearing, painting, oxydation). An evaluation of each method is given

and its applicability to particular species, cases, etc.

**Copy seen:** DLC.

**23702. LAZAREV, ALEKSEĬ PETROVICH.** Zapiski o plavanii voennogo shľupa Blagonamerennogo v Beringov proliv i vokrug sveta dlĭa otkrytiĭ v 1819, 1820, 1821 i 1822 godakh vedennyye gvardelskogo ėkipazha letenantom A. P. Lazarevym. Moskva. Gosudarstvennoe izd-vo geograficheskoi literatury, 1950. 475 p., illus., maps (2 fold.) **Title tr.:** Notes on the voyage of the naval sloop *Blagonamerennyĭ* into the Bering Strait and around the world for discoveries, in 1819, 1820, 1821 and 1822, kept by the guards' Lieutenant A. P. Lazarev.

Text of Lazarev's diary (with minor omissions) preceded (p. 11-94) by an introductory chapter by A. Soloviev, on the expedition, its personnel, aims and place in Russian Arctic and Pacific exploration. The diary contains details of the itinerary from Kronstadt via Rio de Janeiro — Cape of Good Hope — Port Jackson to Bering Sea and its islands and coasts; thence via San Francisco to Hawaii, back to the Bering Sea and ultimately home to Kronstadt. The extensive cruising in the Bering Sea area were utilized for geographical, astronomical and oceanographic observations and measurements. Information is given on: the islands of the area (Unalaska, St. Lawrence Island); harbors (Petropavlovsk in Kamchatka, Novo-Arkhangelsk, now Sitka); Russian colonies in America and their administration; the natives (Chukchis) on the Asiatic side and those on the American side (Aleuts). Occasional meetings of the *Blagonamerennyĭ* (under G. S. Shishmarev) with the companion ship *Otkrytie* (under M. N. Vasil'ev) are noted. These two ships were part of a four-vessel expedition financed by the government to circumnavigate the globe and explore arctic and antarctic regions, the latter under Belingshausen with the *Vostok* and *Mirnyĭ*. The former, under Vasil'ev, were to attempt a northwest passage from the Pacific through the North American arctic waters to the Atlantic. In three efforts in 1820 and 1821 the ships penetrated through Bering Strait into Chukchi Sea (71°06' N. 166°08' W.) and along the Alaskan coast to about 70°40' N. 161°27' W.

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**LAZAREV, M.,** see Andreev, A. I. Russ. discoveries in Pacific & N. America. 1952. No. 20215.

**23703. LAZURKIN, V. M., and V. N. SAKS.** *Novoe v geologii Arktiki.* (Sovetskaya geologiya, 1936. no. 5, p. 399-408, map) **Title tr.:** New data on the geology of arctic regions.

This paper, prepared in connection with 17th International Geological Congress in Moscow and Leningrad 1937, sums up the results of geological investigations of the Arctic by Russian explorers: the evidence of Silurian formations in Novaya Zemlya, the large areas of Mesozoic deposits in northeastern Asia, general characteristics of tectonics of northeastern Asia, and problems of Quaternary glaciation in the Soviet Arctic. *Map* (p. 401) shows progress of geological investigations of the Soviet Arctic. **Copy seen:** DLC.

**23704. LEARMONTH, L. A.** Interrupted journey. (Beaver, Sept. 1951. Outfit 282, no. 2, p. 20-25, illus.)

Contains extracts from the author's diary, Sept. 15-Oct. 6, with several photographic illus. of his trip with thirty-odd Eskimos from Spence Bay up the west coast of Boothia Peninsula to their hunting grounds about 250 miles away; a graphic account of hazards of travel in small boats in stormy ice-filled seas.

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**23705. LEBEDENKO, ALEKSANDR GERVAS'EVICH, and D. E. IŪZHIN.** *Osada pol'usa.* Izd. 3. [Leningrad] Gos. izd-vo detskoi lit-ry, Leningradskoe otd-nie, 1934. 307 p., illus., ports., maps **Title tr.:** The siege of the Pole. 3d edition.

Third edition of a popular history (first published in 1929) on the conquests and conquerors of the Arctic. Contents are same as second (1931) edition (see *Arctic Bibliography* No. 9788), with an additional chapter on activities in the Arctic during the interval: the Ushakov expedition, the *Graf Zeppelin* flight, and the single-season navigation of the Northern Sea Route by the ice-breaker *Sibirfakov* in the summer of 1932.

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**23706. LEBEDEV, ALEKSEĬ IVANO-VICH.** *K ledianomu serdtsu Arktiki; puteshestviia na dalekii Sever* (s XVI veka). Moskva, Molodaiia gvardiia, 1929. 320, [2] p., illus., maps (part fold.). (Biblioteka ekspeditsii i puteshestvii) **Title tr.:** To the icy heart of the Arctic; voyages to the far North since the 16th century.

A popular history of arctic exploration from John Cabot's voyage to North America at the end of the 16th century up to and including Nobile's expedition in the airship *Italia*, 1928.

**Copy seen:** DLC.

**23707. LEBEDEV, ALEKSEĬ IVANO-VICH.** *K ledianomu serdtsu Arktiki; puteshestviia na dalekii Sever* (s XVI veka). Izd. 2, perer. Moskva, Uchpedgiz, 1935. 254, [2] p., illus., maps. (Biblioteka po geografii dlia srednei shkoly) **Title tr.:** To the icy heart of the Arctic; voyages to the far North since the 16th century. 2d ed.

Second edition of item above, revised for use in high schools and brought up-to-date by four additional chapters dealing with: the flight of the *Graf Zeppelin*, the submarine *Nautilus* and recent Russian exploits in arctic regions.

**Copy seen:** DLC.

**23708. LEBEDEV, D. M.** *Geografiia v Rossii petrovskogo vremeni.* Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1950. 382 p., maps (incl. 3 fold.). (Akademiia nauk SSSR. Institut geografii. Seriiia "Itogi i problemy sovremennoi nauki") **Title tr.:** Russian geography in the era of Peter the Great.

An account of Russian geographical knowledge in the 17th-18th century, with chapters on: the more important discoveries in Siberia; search for a North-east Passage; information about America and attempts to reach its western shores by the (Bering) Kamchatka Expedition; search for a route to India; search for sea-lanes to Japan; more important voyages to China, the Caucasus, Persia and the West; main outline of cartography of the time; geographical aspects in official documents dealing with the economy of the country; administrative "departmentalization" and population censuses; projected reforms of Peter's regime; scientific-geographic works; personnel training and the spread of geographical knowledge. Bibliographical footnotes.

**Copy seen:** DLC.

**23709. LEBEDEV, D. M.** *Geografiia v Rossii XVII veka (dopetrovskoi epokhi).* Ocherki po istorii geograficheskikh znanii. Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1949. 233 p., maps\* (2 fold.). (Akademiia nauk SSSR. Institut geografii. Seriiia "Itogi i problemy sovremennoi nauki") **Title tr.:** Geography in

17th-century Russia (the era before Peter the Great), Essays on the history of geographic knowledge.

An outline of Russian discoveries, and of the condition of physical- and economic-geographical thought of the period, based on original sources.

Contains sections on: Russian cartography of the 17th century, and its effect on that of western Europe; Russian discoveries in Siberia; concepts of the "pre-Peter" era on the Northeast Passage; Russian missions in eastern countries; contributions to western European geographical science by the Russian discoveries and travels to Siberia and the East; Russian missions to the Caucasus, Persia, Turkey and western European countries; literary work of a geographical character in Russia of the 17th century; information of a geographical character in official statistical documents of the 17th century. Bibliographical footnotes.

**Copy seen:** DLC.

**23710. LEBEDEV, NIKOLAI KONSTANTINOVICH, 1880-1934.** Eniseiskii raion. Moskva, Planovoe khoziaistvo, 1929. 67, [1] p., illus., maps (part fold.) (Ekonomiko - geograficheskie ocherki SSSR, kn. 13b. Raiony Severnoi Azii, vyp. 2b) **Title tr.:** The Yenisey District.

Account of natural conditions, population, economy and developmental prospects of the region between (roughly) 80° and 110° E. long. and north of the city of Krasnoyarsk to the arctic coast.

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**23711. LEBEDEV, NIKOLAI KONSTANTINOVICH, 1880-1934.** Verkhnesiluriskaya fauna Timana. S. Peterburg, Tipogr. Iakobsona, 1892. 48 p. illus., plates 1-3. U.S.S.R. Geologicheskii komitet. Trudy, t. 12, no. 2) **Title tr.:** The Upper Silurian fauna of the Timan.

Contains an introductory sketch of the geological structure of Timan Ridge (64° N. 52° E.), a study of its Upper Silurian fauna, with descriptions of 24 species of fossil corals, brachiopods and ostracods. *Leperditia timanica* n. sp. and *L. hisingeri* var. *angulata* n. var. are described as new to science. Summary in German, p. 36-48.

**Copy seen:** MH-Z.

**23712. LEBEDEV, NIKOLAI KONSTANTINOVICH, 1880-1934.** Zavoevanie zemli. Popul'naya istoriya geogra-ficheskikh otkrytiy i putestestviy. Tom

II. Novoe vremya (XVI-XVIII vv). Pod redaktsiei M. S. Bondarskovo. Moskva, Voennoe izd-vo ministerstva vooruzhennykh sil sofiya SSR, 1947. [3. izd.] 227 p., illus., ports. **Title tr.:** Conquest of the earth. A popular history of geographical discoveries and navigations [3rd ed.] Vol. 2. Modern times (16th-18th centuries). Under the editorship of M. S. Bondarskiil.

Contains chapters on geographical discoveries and voyages of the 16th century; voyages and geographical investigations of the 17th century; famous travelers of the 18th century; exploration of the interior of Africa, Asia and America in the 18th century. Each of these chapters includes accounts of arctic exploration and explorers of the period.

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**23713. LEBEDEV, VLADIMIR V.** Rost l'da v Arkticheskikh rekakh i morakh v zavisimosti ot otritsatel'nykh temperatur vozdukh. (Problemy arktiki, 1938. no. 5-6, p. 9-25, incl. tables, diagrs.) **Title tr.:** Growth of ice in arctic rivers and seas in relation to negative air temperatures.

"Data collected during 1934-1935 at Kresty, 1935-1937 at Cape Baskakov, 1935-1936 on the Kolyma and Lena Rivers, and 1927-1928 on the Yana River were analyzed to determine the effect of temperature variation on the rate of ice formation. A number of formulas developed since 1873 are reviewed and discussed in terms of applicability for rates of water flow of less than 0.5/sec. The formulas of Zubov, Stefan, Tamura, and Bydin are compared with empirical data obtained on Volga and Svir Rivers. The optimum agreement between the theoretical calculations and the data of 19 polar stations was obtained with Lebedev's formula. This formula considers the thickness of ice as a function of the sum of the average daily air temperatures below 0° C and the thickness of the snow cover."—SIPRE.

Previously listed in *Arctic Bibliography*, No. 9797.

**Copy seen:** DLC.

**LEBEDEVA, M. A.,** see Adamova, A. A., & others. Issled. konservov, khranivshikhся v Arktike. 1950. No. 20038.

**23714. LEBEDEVA, T.** Seismicheskaya karta DVK. (Akademiya nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1934. No. 8 (1) p. 74-75,

map) *Title tr.*: The seismic map of the Far Eastern District.

*Contains* explanatory notes to this seismic map published in 1932 on the basis of observations of the seismic stations in Pulkovo, Sverdlovsk, Irkutsk and Vladivostok, 1910-1932; deals mostly with earthquakes in the Kamchatka Peninsula.

*Copy seen:* DLC; MH-A.

**23715. LEBENGARTS, Z. IĀ.** Tovarovedenie pushno-mekhovogo syr'ia, s osnovami tekhnologii mekhovogo proizvodstva i tovarovedeniia mekhovykh polufabrikatov i izdelii. Pod red. A. N. Formozova. Moskva, Izd-vo Tsentrsofiuza, 1950. 330 p., illus. *Title tr.*: Science of fur raw materials, with principles of the technology of fur production and the science of semi-finished goods and articles. Edited by A. N. Formozov.

*Contains* a manual in three main parts: (1) fur raw materials, dealing with the zoology of furbearers; classification, structure and chemistry of fur; commercial qualities and standards; (2) classification of pelts, giving individual descriptions of the animals, their fur and its varieties; skinning, grades of skins, etc.; (3) processed and dyed products, with brief account of the techniques, values, standards, tests, etc. The northern furbearers of the U.S.S.R. (polar bear, arctic fox, seal, etc.) are extensively represented throughout the work.

*Copy seen:* DLC.

**LEBLANC, J.**, see Thérien, M., & others. Effects acide ascorbique. 1949. No. 26661.

**LEBLOND, C. P.**, see Dugal, L. P., & others. Resistance extreme temperatures in connection with diets. 1945. No. 21564.

**23716. Le BOURDAIS, DONAT MARC, 1887-** . Tyrrell of Canada. (Beaver, Dec. 1952. Outfit 283, p. 14-19, illus., map)

*Contains* biographical sketch of Joseph Burr Tyrrell, mining engineer and explorer. His journey with his brother the late James W. Tyrrell in 1893 from Lake Athabaska to Hudson Bay, his work for the Geological Survey of Canada, survey of the Kazan River system, mining activities, etc. Several photographs taken by Dr. Tyrrell in the course of his

northern explorations, are included in the illus.

*Copy seen:* CaMAI.

**23717. LEBRET, LOUIS JOSEPH, 1897-** , and J. SAUVÉE. Pêcheries mondiales et marché du poisson, t. 1. Paris, Presses universitaires de France, 1950. 265, [1] p. fold, maps (in pocket) diags. (part in pocket). (France. Direction de la Conjoncture et des Études économiques. Études et documents, ser. C, 3) *Title tr.*: World fisheries and fish trade, vol. 1.

*Contains* an introductory section on the development of world fisheries, fishing techniques, canning, etc. during the 19th century and world production during the 20th century. This is followed by accounts of the fishing industries of individual countries with data on kinds of fish caught, weight and value of catches, numbers of people and boats employed, canning, etc. Included are the arctic areas of Norway, Iceland, Canada, Alaska and the Soviet Union. Bibliography (over 150 items).

*Copy seen:* DLC.

**23718. Le DANOIS, EDOUARD, 1887-** . Collections rapportées au Muséum d'Histoire Naturelle par la Mission arctique française 1908 (Collection Bénard [sic]). Liste des poissons. (Paris. Muséum National d'Histoire Naturelle. Bulletin, 1913. t. 19, p. 424-27, incl. table) *Title tr.*: Collections reported to the Natural History Museum by the French Arctic Expedition 1908 (Bénard collection). List of fishes.

*Contains* notes and a tabular presentation of all fishes taken during the cruise of Ch. Bénard in the *Jacques Cartier* to Novaya Zemlya, including, with locality, 11 species taken in Novaya Zemlya coastal waters.

*Copy seen:* DSI-M.

**23719. Le DANOIS, EDOUARD, 1887-** . Croisière du "Pourquoi-Pas?", 1913, coelentérés du plankton. (Paris. Muséum National d'Histoire Naturelle. Bulletin, 1913, t. 19, p. 487-91) *Title tr.*: Cruise of the *Pourquoi-Pas?* 1913. Planktonic coelenterates.

Of the 22 species listed, three were taken in Greenland Sea.

*Copy seen:* DSI-M.

**23720. Le DANOIS, EDOUARD, 1887-** . Croisières scientifiques du *Pourquoi-Pas?* 1912 et 1913, sous le commandement du Dr. J.-B. Charcot.

Liste des poissons. (Paris. Muséum National d'Histoire Naturelle. Bulletin, 1913. t. 19, p. 428-31) **Title tr.:** Scientific cruises of the *Pourquoi-Pas?* 1912-13, under Dr. J.-B. Charcot. List of fishes.

Includes notes and locality lists of five (including with description, one new) species from Jan Mayen waters, and three species from Greenland Sea, north of Iceland. **Copy seen:** DSI-M.

**23721. Le DANOIS, EDOUARD, 1887-** . Note sur trois nouvelles méduses et liste des coelentérés du plankton, recueillis a bord du *Pourquoi-Pas?* dans sa croisière dans les mers du nord. (Paris. Muséum National d'Histoire Naturelle. Bulletin, 1913. t. 19, p. 110-13) **Title tr.:** Note on three new medusae and a list of the planktonic coelenterates collected by the *Pourquoi-Pas?* during its cruise in northern seas.

The list of 16 species includes two *Cyanea arctica* and *Beroë cucumis* from Greenland Sea, north of Iceland.

**Copy seen:** DSI-M.

**23722. LEDEN, CHRISTIAN.** Über die Musik der Smith Sund Eskimos und ihre Verwandtschaft mit der Musik der amerikanischen Indianer. København, C. A. Reitzel, 1952. 92 p. illus. (incl. musical scores). (Meddelelser om Grønland. Bd. 152, no. 3). **Title tr.:** The music of the Smith Sound Eskimos, and its relation to American Indian music.

Contains analyses of the songs of the Polar Eskimos of northwest Greenland and those of the Indians from Canada to South America. These analyses indicate affinities of tone color, melodic line and manner of singing. Author concludes that the racial relation of the two groups, if linked with Asiatic peoples, is with the Paleoasiatics rather than the Mongolians. Bibliography (25 items).

**Copy seen:** DGS.

**23723. LEE, A. J.** The influence of hydrography on the Bear Island cod fishery. (International Council for the Study of the Sea. Rapports et procès-verbaux, 1952. v. 131, p. 74-102, illus., charts)

Contains results of investigations made in 1949-50, of the relation between bottom temperature and fish distribution in Bear Island waters. The hydrographic conditions produced by the Spitsbergen Atlantic (warm) and Bear Island (cold)

currents, meeting in the region of Bear Island, are discussed.

**Copy seen:** DGS.

**23724. LEE, DOUGLAS H. K.** Heat and cold. (Annual review of physiology, 1948. v. 10, p. 365-86)

Review of comparative vertebrate climatology covering the period 1945-1948: sections on human reactions, factors modifying human reactions, reactions of birds and mammals, climatology. In addition to material on effect of heat and cold, the factors of nutrition, clothing, housing, etc., are discussed as factors modifying human reactions. Bibliography (231 items). **Copy seen:** NNN.

**23725. LEE, WILLIAM Y.** Chemotherapy in frostbite; case report. (American journal of surgery, Apr. 1945. n. s., v. 68, p. 113-15, 4 fig.)

Contains a report of a case of severe frostbite of the hand, with incipient gangrene; allantoin-sulfanilamide treatment is believed to have been a big factor in saving the patient's hand; it cleansed the hand of devitalized tissue, stimulated new granulation tissue and epithelium and checked infection. Bibliography (10 items). **Copy seen:** DLC.

**23726. LEECHMAN, JOHN DOUGLAS, 1890-** . Aboriginal tree-felling. (Canada. National Museum. Annual report for 1948-49, pub. 1950 in its; Bulletin, no. 118, p. 44-49, incl. 2 plates, illus.)

Description of stone celts and their use, based on specimens of these primitive ax-shaped implements, also on the author's observations of stumps and his interviews with Indians in Yukon Territory in 1945-46, and 1948.

**Copy seen:** DGS.

**23727. LEECHMAN, JOHN DOUGLAS, 1890-** . Beauty's only skin deep. (Beaver, Sept. 1951. Outfit 282, no. 2, p. 38-40, illus.)

Tattooing technique and patterns used by Eskimos in body ornamentation.

**Copy seen:** DSI-M.

**23728. LEECHMAN, JOHN DOUGLAS, 1890-** . The Old Crow altar cloth. (Canadian geographical journal, Nov. 1951. v. 43, p. 204-205, illus.)

Note on the beaded moose-hide altar cloth and other beadwork of the Indians of Old Crow, Yukon Territory.

**Copy seen:** DGS.

**23729. LEECHMAN, JOHN DOUGLAS, 1890-** . Yukon Territory. (Canadian geographical journal, June 1950. v. 40, p. 240-67, illus., map)

Popular article on a region traveled by the author as archeologist of the National Museum of Canada: outline of the Territory's history, physiography, climate, fauna and flora, the Indian inhabitants, maintenance of law and order, health conditions, towns and ghost towns, resources and industry, transportation facilities, farming and gardening, also attractions for tourists.

*Copy seen:* DLC.

**LEECHMAN, JOHN DOUGLAS, 1890-** , *see also* Canada. Dept. of Mines & Technical Surveys. Geographical Branch. Introduction to geography of Canadian Arctic. 1951. No. 21096.

**23730. LEEDAL, G. P.** The crystalline rocks of East Greenland between latitudes 74°30' and 75° N. København, C. A. Reitzel, 1952. 80 p. illus., 5 plates (incl. 2 maps). (Meddelelser om Grønland. Bd. 142, no. 6)

*Contains* results of a geological reconnaissance made during the Leeds University Greenland Expedition, 1948, under the leadership of W. R. B. Battle. Descriptions are given of the morphologic, stratigraphic and structural relations of the Precambrian crystalline complex which extends west from the northeastern Greenland coast to the inland ice; and results of a petrographic study of the three main series of rocks—the Basement gneisses, probably formed in Precambrian time and later affected by Caledonian movements, the Tyroler Series of late Precambrian age and altered to gneisses and schists during Caledonian orogeny, and the weakly metamorphosed, youngest rocks of the Eleonore Bay Formation. Bibliography (66 items)

*Copy seen:* DGS.

**LEFEBVRE, C. L.,** *see* Gasser, G. W., & C. L. Lefebvre. Growing potatoes in Alaska. 1949. No. 22024.

**23731. LEGENDRE, VIANNEY, and J. ROUSSEAU.** La distribution de quelques-uns de nos poissons dans le Québec arctique. (Association canadienne-française pour l'avancement des sciences, Montreal. Annales de l'ACFAS, 1949. v. 15, p. 133-35, incl. map). *Title tr.:* Distribution of some of the fishes in arctic Quebec.

*Contains* localities and a few field notes on ten species of fresh-water fishes collected by J. Rousseau in 1947-48 during traverses in northern Quebec: (1) south-north, from Lake Michikanau, via George River to Ungava Bay, and (2) west-east from Povungnituk Bay to Ungava Bay. Bibliography (10 items).

*Copy seen:* DLC.

**23732. LEGGET, ROBERT F.** Flight Cariberg. (Beaver, Sept. 1950. Outfit 281, no. 2, p. 30-33, illus., sketch map)

Popular account of a "multi-purpose operation" in May 1948: northern test flight of the Canadian-built North Star aircraft, from Montreal by Belcher Islands, Churchill, Coppermine, Yellowknife to Fort Nelson, returning by Chesterfield and Goose Bay.

*Copy seen:* DSI-M.

**23733. LEGGET, ROBERT F., and F. L. PECKOVER.** Notes on some Canadian "silt." (International Conference on Soil Mechanics and Foundation Engineering. 2d, Rotterdam, June 1948. Proceedings. v. 3, p. 96-100, illus., map, diags. *Also pub.* as: National Research Council of Canada. Associate Committee on Soil and Snow Mechanics. Technical memorandum no. 13, June 1949)

"The silt soils of the Canadian Shield area [which includes most of subarctic and arctic Canada] are fine grained soils having some of the characteristics of clay. The soils appear as small granular particles under the electron microscope. The undisturbed soils behave normally. When agitated, the soils become fluid and cause sliding, sinking, and mud-runs. It is suggested that combined water is released upon agitation which produces a fluid mass. Further investigation is necessary before large scale construction can be carried out in these areas."—SIPRE.

*Copy seen:* DLC.

**23734. LEGGET, ROBERT F.** Soil mechanics in Canada. Ottawa, 1949. 3 p. (Canada. National Research Council, Tech. Memo. 13)

This paper, one of a series of seven Canadian papers presented at the second International Conference on Soil Mechanics and Foundation Engineering held at Rotterdam, 1948, outlines the growth and present status of soil mechanics in Canada. Five aspects are under investigation by the National Research Council, namely track studies, which involve the inter-relationship of soil mechanics and

the mobility of tracked and wheeled vehicles; permafrost in its relationship to building problems in the Canadian north-land; muskeg; snow and ice; and civilian soil mechanics. The most recent Canadian development is the establishment of the Division of Building Research in the National Research Council.

**Copy seen:** CaMAI.

**LEGGET, ROBERT F.**, see also National Research Council of Canada. Subcommittee on Soil Mechanics. Bulletin. 1947. No. 24579.

**23735. LEHMAN, J. P.** Un nouvel amiide de l'Eocène du Spitzberg *Pseudamia heintzi*. (Tromsø. Museum, Aarshefter, 1947, pub. 1951. v. 70, nr. 2 (Naturhistorisk avd nr. 39), p. 1-11, illus. plates 1-3) **Title tr.:** A new species of Amiidæ, *Pseudamia heintzii*, from the Eocene of Spitsbergen.

Contains a description of a new fossil fish, *Pseudamia heintzii* n. gen. et. sp., found in the early Tertiary (Eocene) coal deposits at the Cape Heer on Vestspitsbergen; the new genus is related to the genus *Amia*.

**Copy seen:** MH-Z.

**23736. LEHTISALO, TOIVO VILHO, 1887-.** Beobachtungen über die Jodler. (Suomalais-ugrilainen seura. Aikakauskirja, 1937. v. 48, no. 2, p. 1-35) **Title tr.:** Observations on the yodel.

Contains a comparative study among the Eskimos, Lapps, Ostyaks, Voguls, Samoyeds, and Arkhangel'sk Karelians, of the yodel, a more primitive type of singing than that of the ordinary folk songs of more advanced peoples. Author considers the text and formal structure (meters), but not melody and rhythm of yodels. Those of the Lapps and Samoyeds are more primitive and have no meter; those of the Ostyaks are more developed. The Vogulian and Ostyakian yodel has alliteration and parallelism; the Lapp, parallelism of verses and Samoyed that of words. The refrain is common to all. The content of yodels may be of magic, profane or humorous nature. Shamanistic songs have some words and cries in a "language of the spirits" understood by shamans only.

**Copy seen:** DLC; InU.

**23737. LEHTISALO, TOIVO VILHO, 1887-.** Entwurf einer Mythologie der Jurak-Samojeden. Helsinki, 1924. 171 p. 24 illus. (Suomalais-ugrilainen seura.

Toimituksia, no. 53) **Title tr.:** A sketch of the Yurak-Samoyed mythology.

Contains myths, shamanistic songs and traditional beliefs in German, collected during the author's second expedition to the Yurak or Forest Samoyeds of Tobolsk government in 1914. He found some of these people baptized, but their pre-Christian beliefs and practices still in use, and the deities of both old and new faiths respected in practice. The census of 1897 showed 4,450 Samoyeds living in Tobolsk gov. of whom 987 were baptized, and seven able to read. Author reports all the Yurak Samoyeds living in tents, their chief occupation fishing and squirrel-hunting, their cultural niveau very low, although they have an abundance of mythological beliefs. This book is rather a collection of first-hand material than an investigation, and consists of following chapters: legends of cosmogony and the spirits of heaven; spirits of earth and the netherworld; the sacred animals; the holy places and its spirits (includes description of idols and sacrificial ceremonies); spirits of the tent, impurity and rites of purification; cult of dead; the magician.

**Copy seen:** DLC; InU.

**23738. LEHTISALO, TOIVO VILHO, 1887-.** Etymologien. (Suomalais-ugrilainen seura. Toimituksia, 1950. v. 98, p. 265-70) **Title tr.:** Etymologies.

Ten Samoyed words are connected here with words of various Finno-Ugric languages (Ostyak, Mordvin), or explained by means of Samoyed itself.

**Copy seen:** DLC; InU.

**23739. LEHTISALO, TOIVO VILHO, 1887-.** Etymologien einiger Samoyedischen Wörter. (Finnisch-ugrische Forschungen, 1946. Bd. 29, p. 117-19) **Title tr.:** Etymologies of some Samoyed words.

Contains investigation of the words "storage room", "drum", and "reindeer".

**Copy seen:** DLC; InU.

**23740. LEHTISALO, TOIVO VILHO, 1887-.** Forschungsreisen. (Finnisch-ugrische Forschungen. Anzeiger, 1911, Bd. 11, no. 1-3, p. 34-35; 1912, Bd. 12, no. 1-3, p. 144) **Title tr.:** Expeditions.

Contains (in Bd. 11) note on his travels among the Yurak Samoyeds, Apr. 1911-Jan. 1912, collecting ethnographical objects, taking photographs, writing down linguistic material and recording (with a phonograph) folklore. He visited Obdorsk, the Ob' River delta, and regions

around the Pur and Taz Rivers. In Bd. 12 is report of his further travels, among the Samoyeds in the districts of Obdorsk, Pechora and Timan. The richest linguistic and folklore collections were made in Obdorsk, in 1911-12. His work was sponsored by the Finno-Ugric Society.

*Copy seen:* DLC; InU.

**23741. LEHTISALO, TOIVO VILHO, 1887-** . Juraksamojedische Volksdichtung. Helsinki, 1947. xii p., 615 p. (Suomalais-ugrilainen seura. Toimituksia 90) *Title tr.:* Yurak Samoyed folklore.

These materials were collected from the tundra Yuraks in 1911-12, and from the forest Yuraks in 1914. In the preface, informants are listed, and problems of transcription discussed. Among the texts especially represented are: traditions of origin, tales about ghosts, animals, giants, etc., shamanistic stories and songs, heroic, epic, magic and drunkards' songs, and riddles.

*Copy seen:* DLC; InU.

**23742. LEHTISALO, TOIVO VILHO, 1887-** . Ein paar Worte zur Vertretung des uralischen \*š im Samojedischen. (Finnisch-ugrische Forschungen, 1929. Bd. 20, p. 121-25) *Title tr.:* A few words on representation of the old Uralic š in Samoyed.

Usually it is transformed into *t*, and in a few cases into *s*.

*Copy seen:* DLC; InU.

**23743. LEHTISALO, TOIVO VILHO, 1887-** . Der Tod und die Wiedergeburt des künftigen Schamanes. (Suomalais-ugrilainen seura. Aikakauskirja, 1937. v. 48, no. 3, p. 1-34) *Title tr.:* Death and resuscitation of a future shaman.

Contains beliefs and narratives of shamans who were convinced that once during a sickness they were killed by spirits, cut into pieces and cooked, later put together again and revived; thus they acquired the power to shamanize. Specimens of such narratives are given from several Samoyedic tribes (Tawgis, Yuraks, and Ostyak Samoyeds). Similar ideas and narratives have been recorded among the Yakuts, Buryats, and Tungus. According to the Gilyaks, the spirits do the same with a shaman's body as men do with a bear at its festival. Beliefs about tearing asunder a shaman's body and later putting it together are known to the Eskimos, Voguls, American Indians, and in Australia. Yakuts and

Tungus have myths about the birth of a shaman and the origin of his soul.

*Copy seen:* DLC; InU.

**23744. LEHTISALO, TOIVO VILHO, 1887-** . Ueber den Vokalismus der ersten Silbe in Juraksamojedischen. Anhang: Beobachtungen über den Vokalismus der ersten Silbe im Ursamojedischen. Helsinki, Suomalais-ugrilainen seura 1927. 123 p. (Suomalais-ugrilainen seura. Toimituksia, no. 56) *Title tr.:* On the vocalism of the first syllable in Yurak-Samoyedic. Appendix: Observations on the vocalism of the first syllable in Old Samoyedic.

*Copy seen:* DLC; InU.

**23745. LEHTISALO, TOIVO VILHO, 1887-** . Ueber die primären uralischen Ableitungssuffixe. Helsinki, Suomalais-ugrilainen seura, 1936. viii, 399 p. (Suomalais-ugrilainen seura. Toimituksia, 72) *Title tr.:* On the primary derivation suffixes in old Altaic.

Contains a highly specialized study in historical linguistics.

*Copy seen:* DLC; InU.

**23746. LEHTISALO, TOIVO VILHO, 1887-** . Uralische Etymologien. (Suomalais-ugrilainen seura. Toimituksia, 1928. no. 58, p. 119-37) *Title tr.:* Uralic etymologies.

Linguistic investigation of 46 Ostyak and Samoyedic words.

*Copy seen:* DLC; InU.

**23747. LEHTISALO, TOIVO VILHO, 1887-** . Zur Jagd bei den Juraksamojedischen. (Suomalais-ugrilainen seura. Aikakauskirja, 1913-18. v. 30, no. 34, p. 1-12, 10 illus.) *Title tr.:* On hunting among the Yurak Samoyeds.

Contains notes from the author's observations among the Yuraks living in the northern part of Arkhangelsk and Tobolsk governments. The game animals and birds of the region are mentioned, detailed description and drawings given of hunting weapons and gear: cross-bow, various kinds of traps, snares and nets; a hunter's blind, a camouflage (ede) to enable close approach to the game, is described.

*Copy seen:* DLC; InU.

**LEHTISALO, TOIVO VILHO, 1887-** , see also Castrén, M. A. Samojedische Volksdichtung. 1940. No. 21136.

**23748. LEHTONEN, LEO.** Lintutietoja Etelä-Lapista ja Pohjois-Pohjanmaalta.

(*Ornis fennica*. Helsingfors, 1945. 22:1, p. 24-28) **Title tr.:** Some features of the avian fauna of southern Lapland and northern Ostrobothnia.

On the basis of observations in Oct.-Nov. 1944, author finds the fauna of Oulu - Kemi and Rovaniemi - Vuojärvi more southerly in type than that of the corresponding latitudes on the Russian side of the frontier, due to difference in vegetation. The autumn migration of some species of birds is noted and the decrease in some northern species (*Crates infaustus* and *Parus cinctus*). Summary in English. **Copy seen:** DLC.

**23749. LEIGH, OCTA C.** A report on trench foot and cold injuries in the European theater of operations, 1944-1945. (Annals of surgery, Aug. 1946. v. 124, no. 2, p. 301-313, 6 fig.)

Contains data on the extent and causes of trench foot ("cold injury resulting from prolonged exposure to just-above-freezing temperature: 34°-40° F.") among American troops during the 1944-45 European campaign and some other recent campaigns; a classification of clinical types, based on the severity of cold-injury and used for rapid disposition of casualties; a comparison with frostbite ("cold injury resulting from exposure to below-freezing-temperature"); and a discussion of present methods of evacuation and treatment. Bibliography (9 items). **Copy seen:** DLC.

**23750. LEIGHLY, JOHN BARGER, 1895-** . The climate of Matanuska valley. [Abstract]. (Association of American Geographers. Annals, 1942. v. 32, p. 124)

Winter and summer temperatures, and annual precipitation are noted to be a combination of features of coastal and interior climate, rather than intermediate between the two types of climate.

**Copy seen:** DGS; DLC.

**23751. LEIGHTON, FREEMAN BEACH.** Investigations in the Taku Glacier firn. (In: Miller, M. M., & others. Scientific observations of the Juneau Ice Field Research Project, Alaska 1949 Field Season, 1952, p. 23-48, incl. tables, diagrs.)

"Qualitative and quantitative measurements of meltwater, its generation and movement in the firn, and its influence on firn structures are presented. Meltwater collection pans located directly above and below ice structures indicate

that the concentration of meltwater is influenced by ice structures in the firn. The correlation of meltwater flow with meteorological data is discussed. Capillarity is dominant in the meltwater movement until the water in the firn exceeds capillary saturation, when gravity becomes the controlling force. Observations on diurnal surface crusts are reported and suncups discussed. Suncups are due to differential melting caused by the concentration of the sun's rays on the north slopes of slight depressions. A study of ice layers and ice columns in the firn shows that they are formed by the refreezing of downward percolating meltwater. The cycle of summer meltwater is presented."—SIPRE.

**Copy seen:** CaMAI.

**23752. LEIGHTON, FREEMAN BEACH.** Ogives of the East Twin Glacier, Alaska, their nature and origin. (Geological Society of America. Bulletin, Dec. 1951. v. 62, p. 1505)

Abstract of paper submitted at the Society's meeting in Los Angeles, Mar. 23-24, 1951. **Copy seen:** DGS.

**23753. LEIGHTON, FREEMAN BEACH.** Ogives of the East Twin Glacier, Alaska; their nature and origin. (Journal of geology, Nov. 1951. v. 59, p. 578-89, illus., 3 plates)

Results of studies made during the Juneau Ice Field Research Project, 1949, on a portion of the Taku Glacier system. Critical analysis is given of previous hypotheses of the origin of ogives (= dirt bands), and discussion of Max Demorest's glacier flow theory in relation to their formation. "Ogives are series of curved layers of debris-rich ice forming large-scale pointed arches on a glacier. The ogives of East Twin Glacier, Alaska represent unusually perfect examples for study. These ogives are believed to be the exposed edges of layers of denser and dirtier ice than the intervening layers. The uniform spacing of the ogives seem to indicate that they were formed by periodic obstructed extrusion flow down-glacier from an icefall. Debris, originally basal, became the surface manifestation by upthrusting and ablation."—SIPRE. Bibliography (30 items).

**Copy seen:** DGS.

**23754. LEIGHTON, W. A.** Notulae lichenologicae. No. XVIII. Lichens of Spitzbergen. (Annals and magazine of

natural history, 1867. Ser. 3, v. 20, p. 439-42)

Review of T. M. Fries, *Lichenes Spitsbergenses*, 1867 (see *Arctic Bibliography* No. 5365), with remarks on application of chemical tests in lichens.

**Copy seen:** DLC.

**23755. LEILER, T. E.** Bestimmungstabelle der schwedischen Lucanidenlarven (Col.). (Opuscula entomologica, 1950. Bd. 15, häft. 3, p. 157-60, illus.) **Title tr.:** Tables for the determination of the larvae of Swedish Lucanidae.

**Contains** a study of the larvae of stag beetles (Lucanidae) living mostly on decayed wood, with a table for the determination of larvae and descriptive notes on six species, including *Systonocerus caraboides* captured on decayed birch in Torne Lappmark.

**Copy seen:** DA; MH-Z.

**LEINBACH, HAROLD**, see Herman, L., & H. Leinbach. Photographic study infrared emission of aurora. 1951. No. 22588.

**23756. LEINO, ERKKI.** Suomen rannikon pituus. (Terra, 1928. 40, p. 125-88, tables) **Title tr.:** The length of seashore in Finland.

Author determines (by maps) length of the Finnish coastline, including the arctic coast from the Norwegian border to Petsamo: 66 km., and from Petsamo to the (1928) Russian border: 130.4 km. Summary in German.

**Copy seen:** DLC.

**23757. LEITCH, ADELAIDE.** Village with a mission, Nain, Labrador. (Canadian geographical journal, Mar. 1950. v. 40, p. 102-113, illus.)

Journalist's description of this old settlement and its environs on the coast of Labrador, its Eskimo and White inhabitants, their way of life throughout the year, school, mission, and living conditions. **Copy seen:** DGS; DLC.

**23758. LEIVISKÄ, ILVARI GABRIEL, 1876-** . Maapallon jäähtyminen ja hiilikauden kasvillisuus. (Terra, 1946. 58, p. 6-12, map) **Title tr.:** The cooling of the earth and the flora during the coal age.

Author quotes the known theory that during the Tertiary, and even more so during the Cretaceous periods, arctic areas like Spitsbergen and Greenland had a moderate climate. Similar condition prevailed in the southern hemi-

sphere. He opposes the idea that in those periods a uniform, warm climate prevailed over the whole globe, and claims that climatic zones then did exist. The mild climate of the Arctic is explained to have been due to a generally higher temperature of the earth's surface owing to heat radiating from the interior of the earth, which in those times was greater than today. The glacial periods, which appear to contradict the notion of a generally warmer climate, are explained as limited, local phenomena. Summary in German.

**Copy seen:** DLC.

**23759. LEIVISKÄ, ILVARI GABRIEL, 1876-** . Osschutt, Grundmoräne und Lapplandgold. (Suomalainen tiedeakatemia, Helsingfors (Academia scientiarum fennica). Sitzungsberichte, 1940, pub. 1943. p. 60-77, illus., table) **Title tr.:** Eskers, ground moraines and Lapland gold.

**Contains** a lecture delivered in Nov. 1940 in which the author attacks the current theories of eskers having been formed by streams which flowed within or under glaciers. On the basis of the big size of the esker deposits and the occurrence of gold in them, the author considers the eskers as preglacial terraces of weathering and solifluction products, which were subsequently carried a short distance by the inland ice and left as terraces or "eskers". **Copy seen:** DLC.

**23760. LEIVISKÄ, ILVARI GABRIEL, 1876-** . Der Rückzug des Inlandeises in Finnland. (Suomalainen tiedeakatemia, Helsingfors. Sitzungsberichte, 1934. 17:5, p. 112-34, maps, diagrs., illus.) **Title tr.:** The retreat of the inland ice in Finland.

The author analyzes various geological indications used for reconstruction of the cyclic retreat of the inland ice sheet in Finland, and character of the resulting morainal deposits. Attention is given to the evidence from clay deposits ("clay chronology"). The latter is considered insufficient as indicator of ice retreats.

**Copy seen:** DLC.

**23761. LEKH, S.** Nākotoryā nablūdeniā o morskoi bobrē vodāshchemsā u ostrova Mīdnago Komandorskikh ostrovov. (Vsesoiūznoe geografičeskoe obschestvo, Priamurskii otdel, Zapiski 1907. t. 10, p. 1-37, tables) **Title tr.:** Some observations on the sea otter in-

habiting Mednyy [Copper] Island in the Komandorskiye Islands.

*Contains* an account of observations on the life of the sea otter, made during a sojourn on Copper Island during the winter of 1901-1902, preceded by an historical sketch of previous investigations and of the hunt in the Commander Islands area. Description and morphology of the sea otter is given, its senses and psychology; color and quality of fur; fur of the young; food; reproduction; care of the young; quality of the meat; locomotion in water and on land. Then follows a detailed account of its distribution on the island; methods of catch with the aid of nets; methods of hunting; statistical data on sea otters killed on Copper Island 1870-1902; protection of the animal, etc. *Copy seen:* DLC.

**LEL', ADAM.** *see* Dal'ne-Vostochnyy Kray. Upravlenie rybolovstva i okhoty na morskogo zverfa. Rybnye i pushnye bogatstva Dal'nego Vost. 1923. No. 21351.

**23762. LE MÉHAUTÉ, P. J.** Un hivernage au Groenland avec la mission française de l'année polaire. (Archives de médecine et pharmacie navales, 1935. v. 125, p. 5-39, maps) *Title tr.:* Wintering on Greenland with the French International Polar Year party.

*Contains* report of a doctor attached to the French party of the Second International Polar Year (1932-33) based at Rosenvinge Bay (70°22' N. Scoresby Sound, East Greenland). The itinerary, list of participating boats, personnel, equipment, etc., is given. The medical section deals with clothing, housing, nutrition (samples of menus), sanitation, etc., of the station. It includes also some medico-biological considerations on the Eskimos of the region: their ethnology, habitation, customs, food and nosology (hygiene, skin diseases, digestive ailments, rheumatism, etc.).

*Copy seen:* DSG.

**23763. LE MÉHAUTÉ, P. J., and P. TCHERNIAKOVSKY.** Quelques considerations sur la nosologie des Esquimaux du Groenland oriental. (Presse médicale, 1934. t. 42, p. 491-92, illus.) *Title tr.:* Some considerations on the nosology of the Eskimos of East Greenland.

Report based on a 13-month sojourn at Scoresby-Sund with the French Second International Polar Year Expedition, 1932-33. Introductory sketch is given of

the people, administration, climate, housing and food. This is followed by notes on body hygiene, skin and venereal diseases, eye conditions, digestive diseases, dental and oral conditions, cold, rheumatism; relatively extensive notes on tuberculosis, Bibliography (4 items).

*Copy seen:* DSG.

**LEMKE, WILLIAM, 1878-1950.** *see* Kauffman, E. Timber homestead in Alaska. 1947. No. 23168.

**23764. LEMPKE, ROBERT E., and H. B. SHUMACKER, Jr.** Studies in experimental frostbite, III. An evaluation of several methods for early treatment. (Yale journal of biology and medicine, 1949. v. 21, p. 321-34, illus., tables, graphs.)

Report on methods for early treatment of frostbite as applied to a standard cold injury of the mouse tail. Rapid thawing and immediate heparinization were moderately effective, while blocking of the sympathetic ganglia with tetraethylammonium ion was possibly of some benefit. Prolonged maintenance of vasodilatation through tetraethylammonium after initial rapid thawing, produced the best results. Rapid thawing followed by direct application of mild heat was of less value than rapid thawing alone. Early treatment of frostbite by local application of cold, resulted in an increased loss of tissue. The results support the view that "the gangrene following frostbite is due to the direct effect of cold on ischemic tissue, with subsequent obliteration of the arterial tree by thrombosis." (—From summary). Bibliography (19 items).

*Copy seen:* DSG.

**23765. LEMPKE, ROBERT E., and H. B. SHUMACKER, Jr.** Studies in experimental frostbite, IV. The response of the sympathetically denervated extremity to freezing. (Yale journal of biology and medicine, 1949. v. 21, p. 401-414, table, diagrs.)

Report on experiments undertaken to discover how an extremity, with severed sympathetic nerves, reacts to freezing, and how it differs from a normal, frozen limb. The hind legs of dogs, one of them denervated, the other not, and serving as control, were immersed in a freezing mixture. Times and degrees of immersion and technical details are given (p. 402-403). The results lead to the conclusion that sympathectomy "does not increase

the susceptibility of an extremity to frostbite or influence adversely the end results of frostbite." Bibliography (23 items).  
**Copy seen:** DSG.

**23766. LEMSTRÖM, SELIM, 1838-1904.** Jämförelse emellan kostnaderna för de finska, danska och norska polarstationerna 1882-83. (Finska vetenskaps-societeten, Helsingfors. Översigt af förhandlingar, 1887. Bd. 29, p. 170-72) **Title tr.:** Comparison of the costs for the Finnish, Danish and Norwegian polar stations 1882-83.

**Contains** tabular presentation of cost in Finnish marks of International Polar Year expeditions of Norway (at Bossekop and Altenfjord) Denmark (at Godthaab, West Greenland) and Finland. Personnel numbers, instrumentation, salaries and maintenance and other costs are indicated and discussed.

**Copy seen:** D.L.C.

**23767. LEMSTRÖM, SELIM, 1838-1904.** On the earth-currents and the electrical currents in the atmosphere and their relations to the earth-magnetism; luminous phenomena, natural and artificial, of the nature of the polarlight. (Finska vetenskaps-societeten, Helsingfors. Översigt af förhandlingar, 1898-1899. Bd. 41, p. 60-104, 11 illus., tables, diagrs.)

**Contains** conclusions on the observational data for 1882-83 from the Finnish polar year stations at Sodankylä and Kuitala, published in v. 3 of the author and Biese's report (see *Arctic Bibliography*, No. 9871). Author presents (1) a view of the earth's magnetic state, and (2) its variableness; (3) earth currents with (4) comparative remarks on results from Sodankylä and Pavlovsk; (5) discussion of electrical currents from the atmosphere; (6) luminous phenomena as observed in the Swedish polar expedition of 1868 and three expeditions to Finnish Lapland 1870-84 as well as during the International Polar Year; finally (7) a short review of the magnetic and electric state of the earth.

**Copy seen:** D.L.C.

**23768. Lengerken, Hanns, von.** *Melasoma lapponicum* L. und seine Formen. (Berliner entomologische Zeitschrift, 1913. Bd. 57, heft 3-4, p. 123-30, illus.) **Title tr.:** *Melasoma lapponicum* L. and its forms.

**Contains** a critical revision of *Melasoma lapponicum*, a leaf beetle native to

northern Norway (Tromsø) and Siberia (Verkhoyansk), and its five forms; includes *M. lapponicum* f. *curvilineata* from Tromsø and Finnmark (70°N.) in northern Norway. **Copy seen:** MH-Z.

**23769. LENGERSDORF, FR.** *Neosciara delicata* nov. spec. (Norsk entomologisk tidsskrift, 1935. Bd. 4, hefte 1-2, p. 75, illus.)

**Contains** a diagnosis of a new dipter, *Neosciara delicata* n. sp. collected by S. Sømme on Vestspitsbergen and determined by the author; text in German.

**Copy seen:** DA; MH-Z.

**23770. LENGERSDORF, FR.** Die Sciarden des Naturhistorischen Museums in Wien. (Konowia, 1926. Bd. 5, heft 2, p. 122-29; heft 3, p. 247-55, illus.) **Title tr.:** Species of *Sciara* in the Museum of Natural History at Vienna.

**Contains** diagnoses of 15 new species of the dipterous genus *Sciara* and related genera, including *S. lapponica* n. sp. from Lapland, and a list of old species in the collection of the Museum, including *S. attenuata* from Greenland.

**Copy seen:** MH-Z.

**LENINGRAD. GLAVNAIA GEOFIZICHESKAIĀ OBSERVATORIIĀ. INSTITUT ZEMNOGO MAGNETIZMA,** see U.S.S.R. Komitet po provedeniū 2-go Mezhdunarodnogo Polārnoġo Goda. Magnitnye nablūd. 1937. No. 26881.

**23771. LENINGRAD. VSESOIŪZNYĀ ARKTICHESKIĀ INSTITUT.** Aktinometricheskie nablūdeniĀ polārnykh stantsiĀ Glavnogo upravleniĀ Severnogo morskogo puti 1935-1937 gody, vyp. 3. Leningrad, 1939. 223 p. illus., tables, diagrs. (Its: Trudy, t. 136) Edited by V. A. Berezkin. **Title tr.:** Actinometric observations from the polar stations of the Chief Administration of the Northern Sea Route 1935-1937, part 3.

**Contains** measurements of the intensity of solar radiation made during 1935-1937 by five stations: Tikhaya (Calm) Bay, Cape Zhelaniya, Uyedineniya (Lonely) Island, Cape Chelyuskin, and Tiksi Bay. Tables are prefaced by a description of methods and formulas applied and an account of the observation points. For parts 1-2 of these observations see *Arctic Bibliography*, No. 9891-9892.

**Copy seen:** D.L.C.

**23772. LENINGRAD. VSESOIŪZNYĀ ARKTICHESKIĀ INSTITUT.** Rezul-

taty nablūdeniŭ polŭŭnykh magnitnykh observatoriŭ, 1934 i 1935 godov. Leningrad, Izd-vo Glavsevmorputi, 1938. 228, [1] p. incl. tables. (Its: Trudy, t. 125)

**Title tr.:** Results of observations of the polar magnetic observatories for 1934 and 1935.

Contains data of practically daily observations on declination, vertical and horizontal magnetic components, diurnal movement of declinations, etc. for the following localities and years: Matochkin Shar (73°15' N. 56°23' E.) Novaya Zemlya 1934; Bukhta Tikhaya (80°20' N., 52°48' E.) Zemlya Frantsa Iosifa, 1934 and 1935; Ostrov Diksona (73°30' N. 80°24' E.) 1934 and 1935; Uelen (66°9' N. 169°51' W.) Chukotskiy Poloustrov, 1935; and Mys Chelyuskin (77°43' N. 104°17' E.) Taymyr Poloustrov, 1935. Each station's work, personnel, facilities, etc., is briefly characterized; Matochkin Shar by N. N. Rusnachenko, Bukhta Tikhaya, Ostrov Diksona, Uelen (with illus.) and Mys Chelyuskina by N. N. Nikol'skiŭ.

**Copy seen:** DLC.

**LENINGRAD. VSESOIŪZNYĬ ARKTI-CHESKIĬ INSTITUT**, see also Berezkin, V. I. Rukovodstvo po aktinometrii. 1937. No. 20590.

**23773. LEONOV, L. I.** Geomorfologicheskiŭ ocherk ostrova Genrietty. (Problemy Arktiki, 1944, pub. 1945, no. 1, p. 133-48, illus., fold. map) **Title tr.:** Geomorphological sketch of Henrietta Island.

Detailed geomorphological description of this island (76°56' N. 156°55' E.) in East Siberian Sea, its relief, inland ice, soils, with five illustrations of land forms, etc., and a fold. map, scale 1:25,000 (1937)

**Copy seen:** DGS.

**23774. LEONT'EV, F. S.** K sozdaniŭ ekspozitsii flory Arktiki. (Moskva. Glavnyi botanicheskiŭ sad Akademii nauk SSSR. Būlleten', 1950. vyp. 6, p. 24-26) **Title tr.:** The organization of the arctic flora display.

Contains a list of 75 species of shrubs and herbs, mostly native to Bol'shezemel'skaya Tundra (Arkhangel'sk province) and Chukotsk Peninsula, which are to be cultivated on the "arctic flora" demonstration lot in the Principal Botanical Garden of the Academy of Sciences U.S.S.R. at Moscow; with a discussion

of the best methods of demonstration under prevailing conditions.

**Copy seen:** MH-A.

**23775. LEONT'EVA, A. A.** Kristallizatsiia dvukh olivinovykh bazaltov. (Vserossiiskoe mineralogicheskoe obshchestvo. Zapiski, 1947. ch. 76, p. 202-210, illus.) **Title tr.:** Crystallization of two olivine basalts.

Two olivine basalts from Kamchatka compared with an olivine-free basalt of nearly identical composition, revealed differences in the sequence of crystallization.—Geological Society of America, Bibliography and index of geology.

**Copy seen:** DLC.

**23776. LEPAGE, ERNEST, 1905-** . Distribution du *Salix pseudomonticola* Ball dans le Québec. (Association canadienne-française pour l'avancement des sciences, Montreal. Annales de l'ACFAS, 1949. v. 15, p. 117)

Note on occurrence of this willow at Rupert House (51°29' N. 78°46' W.) and along the west coast of James Bay to the Attawapiskat River. **Copy seen:** DLC.

**23777. LEPAGE, ERNEST, 1905-** . Le dynamisme dans la flore de la toundra en Alaska. (Association canadienne-française pour l'avancement des sciences, Montreal. Annales de l'ACFAS, 1949. v. 15, p. 115-17) **Title tr.:** Dynamism in the tundra flora of Alaska.

Three stages of vegetative cover (aquatic, marsh and heath plants) as they occur on Alaskan tundra, raise the question of evolution of the vegetation and of successions. The author shows that (1) in Northern Alaska the sphagnum heath indicates permafrost; that (2) the age and (3) the nature of the substratum of a locality can be judged by the vegetation.

**Copy seen:** DLC.

**23778. LEPAGE, ERNEST, 1905-** . Une mousse rare en Amérique du Nord: *Didymodon rufus* Lor. (Association canadienne-française pour l'avancement des sciences, Montreal. Annales de l'ACFAS, 1949. v. 15, p. 97-98) **Title tr.:** A rare moss in North America: *Didymodon rufus* Lor.

Record of discovery in 1947 of a specimen of this moss about fifty miles west of the 141° W. long. meridian near 63° N.; a species hitherto recorded in the Canadian Arctic Islands and on Greenland.

**Copy seen:** DLC.

**23779. LEPAGE, ERNEST, 1905-** . New or noteworthy plants in the flora of Alaska. (American midland naturalist, Nov. 1951. v. 46 p. 754-59)

Reports 30 new records of liverworts, mosses, and vascular plants found in Alaska during the summers of 1947-49, including 12 new varieties of vascular plants. Bibliography (11 items).

*Copy seen:* DGS.

**23780. LEPAGE, ERNEST, 1905-** . Note sur les *Polygonum* sous-genre *Avicularia* dans le Quebec. (Association canadienne-française pour l'avancement des sciences, Montreal. Annales de l'ACFAS, 1949. v. 15, p. 98-99) *Title tr.:* Note on the subgenus *Avicularia* of *Polygonum*, in Quebec.

Six species of this herb are recorded from the James Bay region.

*Copy seen:* DLC.

**23781. LEPAGE, ERNEST, 1905-** . *Ricciocarpus natans* in Alaska. (Bryologist, Dec. 1952. v. 55, no. 4, p. 286)

Contains a note on a find of this liverwort, new to Alaska, at Eklutna near Anchorage, July 17, 1947. A description of the locality and other plants encountered there is given. Bibliography (3 items).

*Copy seen:* DA.

**23782. LEPAGE, ERNEST, 1905-** . Variations mineures de quelques plantes du nord-est du Canada et de l'Alaska. (Naturaliste canadien, juil.-août, 1950. v. 77, p. 228-31) *Title tr.:* Minor variations in some plants of northeastern Canada and Alaska

Notes on seven new forms and two new names of seed plants from Alaska, northern Quebec and Akimiski Island in James Bay.

*Copy seen:* DA; DGS.

**LEPAGE, ERNEST, 1905-** , *see also* Dutilly, A. A., & E. Lepage. Explor. sommaire r. Harricana. 1951. No. 21583.

**LEPAGE, ERNEST 1905-** , *see also* Dutilly, A. A., & E. Lepage. Traversée l'Ungava 1945. 1951. No. 21584.

**LEPAGE, ERNEST, 1905-** , *see also* Herre, A. W. C. T. Lichens coll. in Alaska 1948. 1950. No. 22591.

**LEPAGE, ERNEST, 1905-** , *see also* Montreal. Botanical Garden. Delectus seminum et sporarum. 1951. No. 24449.

**23783. LEPNEVA, S. G.** Lichinka *Oligoplectrodes potanini* Mart. (Trichoptera). (Entomologicheskoe obozrenie,

1933. t. 25, no. 1-2, p. 116-18, illus.) *Title tr.:* The larva of *Oligoplectrodes potanini* Mart. (Trichoptera).

Contains Russian and German description of an unknown larva, probably of *Oligoplectrodes potanini*, collected by A. M. Popov in the lower Lena River region and in water basins on the coast of Laptev Sea.

*Copy seen:* DSI-M; MH-Z.

**23784. LEPP, ERICA, and others.** Effect of danilone and dicumarol on experimental frostbite. (Revue canadienne de biologie, Mars 1952. v. 11, no. 1, p. 69) *Other authors:* M. Ogilvie and L. B. Jaques.

Contains an abstract on experiments of rabbit feet subjected to freezing. The final extent of gangrene was the same in animals treated with danilone, dicumarol and in untreated controls; circulation in frozen ears as studied by fluorescein was much better for the first four days after freezing in animals treated with danilone, than in controls.

*Copy seen:* DLC.

**LERMONTOVA, E. V.,** *see* Bobin, E. S., & E. V. Lermontova. O dreve-paleozolskikh dvizheniakh Sibirskoi platformy. 1940. No. 20740.

**LE ROI, O.,** *see* Koenig, A. Avifauna Spitzbergensis. 1911. No. 23344.

**23785. LEROI-GOURHAN, ANDRÉ, 1911-** . La civilisation du renne. 2 éd. Paris, Gallimard [1936] 3 p. L, [9]-178 p., 1 l., illus. (incl. maps), 32 plates on 16 leaves, diagr. (On cover: Géographie humaine; collection dirigée par P. Defontaines) *Title tr.:* The reindeer civilization.

Contains general remarks on the reindeer and its habitat; the tundra-taiga area of Eurasia and America, its human and animal population, role of the reindeer in its economy. Then follows account of three reindeer cultures. The first prehistoric races depending on reindeer in Europe; their migration to the east and west. Second reindeer culture: North American Arctic, the Eskimos and animals associated, particularly seal and reindeer; northern Asia, its Finno-Ugric, Turk-Mongol, and "palaearctic" (Chukchi, Yukaghir, Koryak, Kamchadal) peoples, their cultures and the role of the reindeer therein. Third reindeer culture: domestication by Lapps, Samoyeds, Tungus, Yakuts, Koryaks and Chukchis. Includes remarks on sledges, pastures,

etc., and finally, discussion of the changing role of the reindeer as northern native cultures became adjusted to that of temperate-zone man. **Copy seen:** DLC.

**23786. LESKOV, ALEKSANDR IVANOVICH, 1902-1942.** Severnyĭ predel rasprostraneniia kedra (*Pinus sibirica* Mayr) i sosny (*Pinus silestris* L.) v basseine r. Poluĭa. (Botanicheskiĭ zhurnal SSSR. 1935. t. 20, no. 1, p. 95-100) **Title tr.:** Northern limit of distribution of the cedar (*Pinus sibirica* Mayr) and pine (*Pinus silvestris* L.) in the Poluy River basin.

Both trees reach their northern limits on the Poluy River (a tributary of the Ob) at approx. 65°30'-65°45' N. lat.

**Copy seen:** DLC.

**L'ESPERANCE, R.,** see Gill, J. E., & R. L'Esperance. Diabase dykes Canadian Shield. 1952. No. 22109.

**LESSE, H. de, see de LESSE, HUBERT.**

**23787. LETHBRIDGE, T. C.** Herdsmen & hermits, Celtic seafarers to the northern seas. Cambridge Bonus & Bonus, 1950. 143 p. illus. (incl. maps), plate.

Includes (p. 103-136) chap. 7, "The sea road to Greenland," chap. 8, "Norsemen and Eskimos in Greenland and America," dealing with early voyages, exploration and archeology.

**Copy seen:** CaMAI.

**23788. LETKOVSKIĬ, A. J.** Promerzaiemost' pochv i ee vliianiĭe na vesenniiĭ stok poverkhnostnykh vod. (Lesnoe khoziaistvo, Mar. 1939. no. 3, p. 75-80, tables) **Title tr.:** Freezing of soils and its effect on the spring run-off of surface water.

Contains an account of studies made on forest with various types of soil, plant cover and timber stands and dealing with the depth of freezing in relation to these factors. The problems of thawing and spring run-off are also discussed, insofar as they depend on these factors.

**Copy seen:** DLC.

**23789. LEV, D. N.** Novye arkheologicheskie pamiatniki Kamchatki. (Sovetskaiia etnografiia, 1935. no. 4-5, p. 217-24, 12 illus.) **Title tr.:** New archeological remains from Kamchatka.

Contains description of 43 stone implements (adzes, chisels, knives, arrows, etc.), excavated by a seaman, N. A. Gur'ev on the *Krasnoarmeets* in 1932,

from a pit at Bukhta Tar'ya near Petropavlovsk, and now preserved in the Kamchatka museum.

**Copy seen:** DLC.

**23790. LEVANDER, KAARLO MAINIO, 1867-1943.** Suomen verta-imevät sääsket. (Notulae entomologicae, 1922. v. 2, no. 2, p. 57-59) **Title tr.:** Distribution of mosquitoes in Finland.

Contains a list of 21 species of mosquitoes native to Finland, including seven occurring in Finnish Lapland.

**Copy seen:** DLC; MH-Z.

**23791. LEVANDER, KAARLO MAINIO, 1867-1943.** Tierphänologische Beobachtungen in Finland 1896. (Bidrag till kännedom af Finlands natur och folk, 1907. Häfte 64, p. 385-425 (tables)) **Title tr.:** Animal phenological observations in Finland 1896.

Similar to report of K. E. Stenroos for 1895, q. v. For subsequent years' reports see items following, also reports by M. Reuter.

**Copy seen:** DLC.

**23792. LEVANDER, KAARLO MAINIO, 1867-1943.** Tierphänologische Beobachtungen in Finland 1903. (Bidrag till kännedom af Finlands natur och folk, 1907. Häfte 64, p. 174-93, (tables)) **Title tr.:** Animal phenological observations in Finland 1903.

Similar to reports on previous years published in this journal.

**Copy seen:** DLC.

**23793. LEVANDER, KAARLO MAINIO, 1867-1943.** Tierphänologische Beobachtungen in Finland 1904. (Bidrag till kännedom af Finlands natur och folk, 1907. Häfte 64, p. 321-36 (tables)) **Title tr.:** Animal phenological observations in Finland 1904.

Similar to earlier reports published in this journal.

**Copy seen:** DLC.

**23794. LEVANDER, KAARLO MAINIO, 1867-1943.** Tierphänologische Beobachtungen in Finland 1905. (Bidrag till kännedom af Finlands natur och folk, 1907. Häfte 64, p. 339-60 (tables)) **Title tr.:** Animal phenological observations in Finland 1905.

Similar to earlier year's reports published in this journal.

**Copy seen:** DLC.

**23795. LEVANDER, KAARLO MAINIO, 1867-1943.** Tierphänologische Beobachtungen in Finland 1906. (Bidrag till kännedom af Finlands natur och folk,

1907. Häfte 64, p. 363-81 (tables))  
**Title tr.:** Animal phenological observations in Finland 1906.

Similar to previous years' reports published in this journal.

**Copy seen:** DLC.

**23796. LEVANDER, KAARLO MAINIO, 1867-1943.** Tierphänologische Beobachtungen in Finland 1907. Helsingfors, 1909. 90 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 67, no. 3) **Title tr.:** Animal phenological observations in Finland 1907.

The report for this year is arranged according to species and not according to stations as previously, thus emphasizing its biological character. It is divided into two sections: a larger one comprising the phenology of birds, and a smaller one, that of common frogs, fishes and insects. The species are arranged in taxonomic order. The phenology of birds includes: hibernation, spring migration, brooding (including nest building and courting), and fall migration. Number of observation points: 70, four of them above the Arctic Circle.

**Copy seen:** DLC.

**23797. LEVANDER, KAARLO MAINIO, 1867-1943.** Tierphänologische Beobachtungen in Finland 1908. Helsingfors, 1917. 82 p. (tables). (Bidrag till kännedom af Finlands natur och folk. Häfte 77, no. 3) **Title tr.:** Animal phenological observations in Finland 1908.

Observations from 75 stations, five north of the Arctic Circle, covering 149 species of birds, nine of fishes, seven insects, one amphibian, arranged in the new (taxonomic) way as in 1907.

**Copy seen:** DLC.

**23798. LEVANDER, KAARLO MAINIO, 1867-1943.** Tierphänologische Beobachtungen in Finland 1909. Helsingfors, 1917. 102 p. (tables). (Bidrag till kännedom af Finlands natur och folk. Häfte 77, no. 4) **Title tr.:** Animal phenological observations in Finland 1909.

Covers practically the same area and species as were reported for 1908 by the same author.

**Copy seen:** DLC.

**23799. LEVANDER, KAARLO MAINIO, 1867-1943.** Tierphänologische Beobachtungen in Finland 1910. Helsingfors, 1918. 99 p. (tables). (Bidrag till kännedom af Finlands natur och folk. Häfte 77, no. 5) **Title tr.:** Animal phenological observations in Finland 1910.

Data similar to those reported in previous years. **Copy seen:** DLC.

**23800. LEVANDER, KAARLO MAINIO, 1867-1943.** Tierphänologische Beobachtungen in Finland, 1911. Helsingfors, 1920. 93 p. (tables). (Bidrag till kännedom af Finlands natur och folk. Häfte 78, no. 2) **Title tr.:** Animal phenological observations in Finland, 1911.

Report similar to that of the previous year.

**Copy seen:** DA.

**23801. LEVANDER, KAARLO MAINIO, 1867-1943.** Zur Kenntnis des Planktons einiger Binnenseen in Russisch-Lappland. Helsingfors, 1905, pub. 1907. 49 p. plates 1-3. (In: Festschrift Dr. J. A. Palmén, Bd. 1, no. 11) **Title tr.:** A contribution to the knowledge of the plankton of some inland lakes in Russian Lapland.

Contains historical notes on the study of fresh-water plankton of Russian Lapland; an annotated list of six lakes studied in this paper and a list of eight other lakes with mean temperature for summer months; a systematic list of 67 plant forms (algae, desmids, diatoms, etc.) and 71 animal forms, including a diagnosis of a new infusoria *Rhabdostyla bosmina* n. sp., with data on geographic distribution in the Kola Peninsula and in other arctic regions, dimensions and discussion of some species, a list of 52 species important in respect to limnology, p. 35-37; a bibliography (66 items) and tabulated data on distribution in six lakes, p. 44-49.

**Copy seen:** MH-Z.

**23802. LEVASHOV, M. M.** Opyt bibliografi russkoj gel'mintofaunisticheskoi literatury za period s 1771 po 1947 g. (Akademiia nauk SSSR. Gel'mintologicheskaiia laboratoriiia. Trudy, 1949. t. 2, p. 143-204) **Title tr.:** A bibliographical essay on the Russian literature on helminthic fauna from 1771 to 1947.

Contains a bibliography of about 850 works in the Russian language on parasitic worms, mostly intestinal, including some dealing with helminthic fauna of northern regions of the U. S. S. R.

**Copy seen:** MH-M.

**23803. LEVIN, M. G.** Antropologicheskie tipy Sibiri i Dal'nego Vostoka. (K probleme etnogeneza narodov Severnoi Azii). (Sovetskaiia etnografiia, 1950. No. 2, p. 53-64) **Title tr.:** Anthropological types of Siberia and the Far East

(contribution to the ethnogenesis of northern Asia).

Contains a general discussion on the connection between language, culture and level of development on one hand, and racial type on the other; between territory, and formation of anthropological types, etc. This is followed by accounts of the Tungus, and Yakut groups of people, their language, origin, pre-history, subdivisions, migrations, etc. Brief sections on the peoples of northeastern Asia and the Amur River area, conclude the study. Bibliographical footnotes.

**Copy seen:** DLC.

**23804. LEVIN, M. G.** K antropologii eskimov. (Sovetskaiā étnografiā. Sbornik statei, 1947. t. 6-7, p. 216-23) **Title tr.:** On the anthropology of the Eskimos.

Contains critical evaluation of recent works on physical characteristics of Eskimos (Asiatic and North American groups) particularly Aleš Hrdlička's *Catalog of human crania . . . Eskimo in general*, 1942 (*Arctic Bibliography*, No. 7482).

**Copy seen:** DLC.

**23805. LEVIN, M. G.** K antropologii finnov suomi i loparef. (Antropologicheskii zhurnal, 1927. t. 16, vyp. 1-2, p. 80-82) **Title tr.:** On the anthropology of the Finns and Lapps.

Contains a summary of the physical characteristics of these peoples, based mainly on the works of the Finnish anthropologist, Yrjö Kajava, q. v.

**Copy seen:** DSI.

**23806. LEVIN, M. G.** Kraniologicheskie tipy chukchei i eskimov; v svyazi s voprosami étnogeneza severo-vostochnoi Azii. (Akademiā nauk SSSR. Muzei antropologii i étnografii. Sbornik, 1949. t. 10, p. 293-302, 3 fold. tables) **Title tr.:** The craniological types of the Chukchis and Eskimos; with reference to the question of ethnic origins in northeastern Asia.

Contains anthropometric data on skulls of Chukchis and Eskimos (and their cross-breeds), based on specimens which originated from the Chukotsk Peninsula and are preserved with Muzei Antropologii i étnografii (collections of N. L. Gondatti and others); the earlier work of J. Fridolin, Hrdlička, and G. Montandon are also considered. Following brief mention of the theories of Bogoraz and Joelsson, the author gives more consideration to the work of A. M. Zolotarev

and his theory of a pre-Chukchian population which belonged to the Eskimoid group, lived from hunting of sea-animals (no reindeer or dogs), and worshipped the raven.

**Copy seen:** DLC.

**LEVIN, M. G., see also Dolgikh, B. O., & M. G. Levin.** Perekhod ot rodopleneniykh svyazef. 1951. No. 21499.

**LEVIN, M. G., see also Novye materialy o narodnostfakh sev.** 1932. No. 24749.

**LEVIN, M. G., see also Vasilevich, G. M., & M. G. Levin.** Tipy olenevodstva. 1951. No. 27066.

**23807. LEVIN, M. I.** K voprosu o lechenii otmorozhenii kondensatornym polem UVCH i drugim fizioterapevticheskimi faktorami. (Vestnik khirurgii, Mar. 1941. t. 61, kn. 3, p. 410-11) **Title tr.:** On the question of treating frostbite with the condenser field of ultra-high frequencies and with other physiotherapeutic agents.

Contains an abstract of a report to the Conference of Military Hospitals of the Leningrad Military District (July 30-Aug. 1, 1940) based on treatment of 136 patients, with first-, second-, and third-degree frostbite. Dosage, extent of therapy and results are briefly cited.

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**23808. LEVIN, O. A., and others.** Klinika i lechenie otmorozhenii. (Vestnik khirurgii, Aug. 1940. t. 60, kn. 1-2, p. 86) **Title tr.:** Clinical aspects and therapy of frostbite. **Other authors:** A. A. Zakharova, and O. L. Kafsnel'son.

Contains an abstract of a report before the Leningrad Conference of Workers of Evacuation Hospitals and Specialist Sections of Hospitals and Institutes (May 25-27, 1940). Authors point out that third-degree frostbite actually encompasses widely differing cases, and suggest a division of this group into three further grades, making altogether five grades; characteristics of the additional grades are given; the variability of the clinical picture of frostbite is stressed and a corresponding therapy demanded; therapeutic methods are summarized.

**Copy seen:** DLC.

**23809. LEVIN, V. I.** Prirost elovykh drevostoev na osushennykh ploshechakh severa. (Lesnoe khozfstvo. Nov. 1940. no. 11, p. 14-24, illus., tables, diagrs.) **Title tr.:** Growth of fir-stands on drained areas of the North.

Contains a study on the quantitative and qualitative increase of fir-stands following drainage of the area. The quantitative increase is measured both by circumference and height of the trees. The study suggests that growth was prompter and more pronounced the younger the trees were, and much delayed and insignificant in those 150-200 years old.

**Copy seen:** DLC.

**LEVIN, V. I.**, see Novye materialy o narodnostakh Severa. 1932. No. 24749.

**23810. LEVINE, NORMAN D.** *Eimeria dicrostonicis* n. sp., a protozoan parasite of the lemming, and other parasites from arctic rodents. (Illinois State Academy of Science. Transactions, 1951. v. 44, p. 205-208, illus.)

Contains a report on an examination of feces of lemmings and other rodents, collected by H. C. Hanson during the 1949 Perry River Expedition, in the Mackenzie-Keewatin Districts border region. The new species of *Eimeria* which is described in detail, including the oöcysts, was found in five out of 14 specimens of the varying lemming, *Dicrostonyx groenlandicus richardsoni*. Bibliography (8 items).

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**23811. LEVINE, VICTOR E.** Ascorbic acid content of the blood of the Eskimo. (Journal of biological chemistry, May 1940. v. 133, p. lxi)

Contains a report on an examination of 30 Eskimo children at Point Barrow, Northern Alaska Jan. 1938; subacute scurvy was found in 28 of them due to scarcity of fresh meat and of berries; disorders of the respiratory tract, and severe tuberculin reactions were diagnosed.

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**23812. LEVINE, VICTOR E.** The basal metabolic rate of the Eskimo. (Journal of biological chemistry, June 1939. v. 128, p. lix)

Contains a summary of a study made on 11 male and 12 female Eskimos at Point Barrow, between Aug. 1937 and Aug. 1938. Complete medical examination was made to insure normality. 18 subjects showed normal metabolic rates while one male and four females showed high rates, indicating a condition similar to those found in the temperate zone among other races.

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**23813. LEVINE, VICTOR E., and M. N. JORGENSEN.** Urinary chlorides and blood chlorides in the Eskimo. (Journal of biological chemistry, 1941. v. 140, p. lxxvii-lxxviii)

Contains a report on determinations made on Point Barrow Eskimos living on a native, mixed or white-man's diet. Urinary chloride level depended on the chloride intake; the whole blood chloride of subjects living on a native or mixed diet were the same as those of the white man; data on urinary nitrogen are also given.

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**LEVINE, VICTOR E.**, see also Wilber, C. G., & V. E. Levine. Fat metabolism Alaskan Eskimos. 1950. No. 27390.

**23814. LEVINSON, SIDNEY O., and others.** Effect of fatigue, chilling and mechanical trauma on resistance to experimental poliomyelitis. (American journal of hygiene, Sept. 1945. v. 42, p. 204-213, 6 tables) Other authors: A. Milzer and P. Lewin.

Contains a report on experiments with monkeys, including such chilled with water of 17° C. for 30 minutes. Cooling, like fatigue, (but not local trauma) during the incubation period caused higher incidence and more severe paralysis. Bibliography (21 items).

**Copy seen:** DLC.

**23815. LEVINSON-LESSING, F. ū.** Contribution to the petrography of Kamchatka. (Akademiia nauk SSSR. Doklady, seriia A, 1930. no. 1, p. 1-6, tables)

Notes on chemical analyses and microscopic examination of rock specimens in older collections and literature.

**Copy seen:** DLC.

**LEVONEVSKIĬ, D. A.**, see Makarov, S. O. S. O. Makarov i zavoevanie Arktiki. 1943. No. 24121.

**23816. LEVOSHIN, N. N.** Drevniiia stoianka v verkhov'iaakh r. Īakitikive-ma (Chukotskiĭ poluoostrov). (Akademiia nauk SSSR. Institut istorii material'noi Kul'tury. Kratkie soobshcheniia, 1950. vyp. 31, p. 193-95, illus.) Title tr.: An ancient settlement at the sources of the Yakitikiveyem River (Chukotsk Peninsula).

Contains a brief report on stone weapons and other implements found in 1947 "in the central part of the Chukotskiy Peninsula . . . on the River Yakitiki-

veyem" (67°39' N. 179°30' W.), the earliest remains ever found in this region. Description is given of the location, the finds and their materials. These artifacts were found on the surface; indications of the existence of a settlement there in very ancient times are presented. This paper is discussed by L. Krader's *Neolithic find in Chukchi Peninsula*, 1952, q. v., and the finds were classified and evaluated by A. P. Okladnikov, q. v.

**Copy seen:** DLC.

**LEWIN, PHILIP**, see Levinson, S. O., & others. Effect fatigue chilling & trauma on resistance polio. 1945. No. 23814.

**23817. LEWIS, H. W., and G. J. WHERRETT.** An x-ray survey of Eskimos. (Canadian Medical Association. Journal, 1947. v. 57, p. 357-59)

Contains a report on a chest x-ray survey of 1,347 Eskimos, made during the 1946 voyage of the *Nascopie* on the Eastern Arctic Patrol. Presumptive evidence of tuberculosis was found in 5.9 per cent; presumptive evidence of previous disease, now calcified, was found in 4.7 per cent; there was evidence of widespread tubercularization and of resistance to tuberculosis; problems of treatment and isolation of open cases are discussed.

**Copy seen:** DSG.

**LEWIS, R. B.**, see Pichotka, J., & R. B. Lewis. Prevention infection *Pseudomonas* frostbitten tissue. 1949. No. 25086.

**LEWIS, R. B.**, see also Pichotka, J., & R. B. Lewis. Use heparin in treatment experimental frostbite. 1949. No. 25087.

**23818. LIĀKHNIŤSKIĬ, VALERIAN EVGEN'EVICH.** Morskoe porty. Utverzhdeno Tsentral'nym upravleniem uchebnykh zavedenii Ministerstva morskogo flota v kachestve uchebnika dlia vysshikh morekhodnykh uchilishch i Odesskogo instituta inzhenerov morskogo flota. Izd. 4-e, pererabotano i dopolnenoe. Moskva-Leningrad, Izd-vo "Morskoi transport", 1948. 561 p., diagrs. **Title tr.:** Sea ports. Authorized by the Central Administration of Educational Institutions of the Ministry of the Navy as a textbook for higher marine schools and for the Odessa Institute of Navy Engineers. 4th edition revised and enlarged.

Technical monograph dealing with general arrangements and equipment for seaports, hydro-technical structures in harbors and the ways to build them.

Includes numerous references to arctic conditions, viz. ice (p. 76, 301-302); boats (p. 22-25); meteorological and climatic factors (p. 55-57); handling of timber (p. 175-86); etc. Bibliography (over 80 items).

**Copy seen:** DLC.

**23819. LIĀKHOVICH, V. V.** Novye dannye ob akhtarandite. (Akademiia nauk SSSR. Doklady, 1952. t. 82, no. 4, p. 625-28, illus. table) **Title tr.:** New data on akhtarandite.

Contains data on this mineral found on the Vilyuy River (64°20' N. 126°26' E.) in Yakutia, including its occurrence, crystallography, microscopic appearance, physical properties, chemical analysis, x-ray analysis, etc. A genesis of this little known mineral is suggested. Bibliography (11 items).

**Copy seen:** DLC.

**23820. LIĀKHOVICH-SUSHKOVA, M. L., and L. L. ZELENKO.** "Zona komforta" dlia detei doskol'nogo vozrasta. (Gigiena i sanitariia, Mar. 1950, no. 3, p. 41-47, 4 fig., 2 tables) **Title tr.:** The "zone of comfort" for children of pre-school age.

Contains a study of equally dressed children within a temperature range of 12° to 24° C. with observations on the temperature and electro-conductivity of the skin, pulse and blood pressure. Skin-temperature and electroconductivity appeared the most sensitive indicators of the thermal condition of the children; cardiovascular observations suggest a fairly high degree of adaptability to ambient conditions; an air temperature of 16-18° C. is considered as comfortable under the given conditions of experiment.

**Copy seen:** DLC.

**23821. LIĀLINA, MARIĀ ALEKSANDROVNA, d. 1904.** Russkie moreplavately. V. Golovin (V plēnu u ūpontsev); O. F. Kotsebu (Plavanie na "Rurikā"); G. Nevel'skoi (Prisoedinenie Amurskago kraia). Obrabotany po podliinnym sochinēniam puteshestvennikov M. A. Liālinoi S. -Peterburg, Izd. A. F. Devrien, [1896]. 380 p., illus., ports. (Russkie puteshestvenniki - issledovateli). **Title tr.:** Russian sea-farers: V. Golovin (In Japanese captivity); O. F. Kotsebu (Voyages on the *Rurik*); G. Nevel'skoi (Annexation of the Amur area); Edited from the complete reports of the travelers by M. A. Liālina.

Each of the three accounts has an introduction giving the biography, ex-

ploits and an appreciation of the personality of the explorer. Only the account of Kotsebu (p. 153-283) deals with arctic areas, viz. with his explorations in the North Pacific and the Bering Strait, 1815-1818, as reported in his *Puteshestvie v Ūzhnyĭ okean i Beringov proliv* (see *Arctic Bibliography*, No. 9142).

**Copy seen:** DLC.

**LIBET', B.**, see Bazett, H. C., & others. Precooling blood in arteries. 1948. No. 20518.

**23822. LIBIN, I. K.** Transportnā problema Ākutii. (In: Akademifā nauk, SSSR, Leningrad. Poleznye iskopaemye i transportnā problema Ākutii, 1930, p. 65-86, tables, fold. map) **Title tr.:** The transportation problem of Yakutia.

Discussion of measures for improving transportation in Yakutia: plans for development of the water communications; nine alternative schemes for a railroad planned to connect the inland navigation system of Yakutia with the railroad system of U.S.S.R., and their evaluation from the point of view of needs of the population, colonization, the gold industry, mining and forestry; plans for new wagon-roads; with a fold map, scale 1:7,500,000, showing existing lines of communication and the alternative routes of the projected railroad.

**Copy seen:** DLC.

**23823. LICHKOV, L.** Ākuty. (In: Ėnĭsiklopedicheskiĭ slovar', 1890-1904. v. 41a, p. 631-34) **Title tr.:** The Yakuts.

Brief but informative article on this northern native people (said to number 200-250,000) in lower and middle Lena basin and coastal region of Yakutia. Notes their migrations, history, relations with the Russians, Tungus, etc., and the acculturation process; their physical and psychological characteristics; transition from migratory to settled mode of life, with reindeer breeding and fishing; their laws and social organization; dwellings, domestic life and child training; religious beliefs, role of the shaman, language and folklore.

**Copy seen:** DLC.

**23824. LID, JOHANNES, 1886-**, and A. R. ZACHAU. Utbredningen ar *Viscaria alpina* (L.) G. Don, *Alchemilla alpina* L. och *Rhodiola rosea* i Skandinavien. (Göteborg, Sweden. Botaniska trädgård. Meddelanden, 1928, pub. 1929. t. 4, p. 69-144, illus., text maps) **Title tr.:** Distribution of *Viscaria alpina* (L.)

G. Don, *Alchemilla alpina* L. and *Rhodiola rosea* in Scandinavia.

Contains a study of the geographic distribution in Scandinavia of these three alpine species with a list of localities in Sweden and Norway arranged by provinces including arctic regions, and illustrated by text maps; total distribution for each species is also mentioned; bibliography (122 items).

**Copy seen:** DSI-M; MH-A.

**LID, JOHANNES, 1886-**, see also Høeg, O. A., & J. Lid. Adventive plants in Spitsbergen. 1929. No. 22642.

**23825. LID, NILS.** Reinkalvmånaden. (Studia Septentrionalia, 1945. v. 2, p. 130-37) **Title tr.:** The reindeer-calf month.

Contains account of a Lapp moon-month named after the new-born reindeer calf (*miesse, vyze, morhme*). The tradition that the reindeer calf can be born only during a spell of cold and snow has a parallel in the Norwegian belief that Lapp babies are thrown at birth into the snow to be hardened. The Lapp, Siberian, Eskimo and Norwegian terms have no historical connection, but are based on the same natural conditions.

**Copy seen:** DLC; InU.

**23826. LIDÉN, BROR PER EVALD, 1862-**. Germanische Lehnwörter im Finnischen und Lappischen. (Finnisch-ugrische Forschungen, 1911. Bd. 11, p. 123-38) **Title tr.:** Teutonic loanwords in Finnish and Lappish.

On the origin of the Lapp word *kailo* (pike).

**Copy seen:** DLC; InU.

**LIE, JUST**, see Bergersen, B., & J. Lie. Hvalrådet. 1952. No. 20618.

**LIENK, SIEGFRIED E.**, see Sailer, R. I., & S. E. Lienk. Blow flies in Alaska. 1951. No. 25778.

**LIESTØL, OLAV, 1922-**, see *Polarboken*. Norsk Polarinstitutt. 1951. No. 25177.

**23827. LIFE.** Life goes around North America. The Mounties use Northwest Passage and Panama Canal. (Life, June 19, 1950. v. 28, no. 25, p. 122-26, 128, incl. 3 p. of illus.)

Brief notes on trips of the Royal Canadian Mounted Police vessel *St. Roch* through the Northwest Passage accompanied by illustrations on history of the route.

**Copy seen:** DLC.

**23828. LIFE.** On the great icecap scientists probe Greenland's frozen center. (Life, June 26, 1950. v. 28, no. 26, p. 80-85, incl. 3 p. of illus.)

Brief notes accompany colored illustrations of the French Arctic Expedition to Greenland's inland ice, 1949-50, led by Paul Émile Victor.

**Copy seen:** DLC.

**23829. LIHTONEN, V.** Metsäluonnon pysyvät ja muuttuvat ominaisuudet topografisen kartoituksen perusteina. (Terra, 1944. 56:2, p. 64-68) **Title tr.:** The permanent and variable characteristics of forest landscape with respect to topographic mapping.

Includes data on the swamp and forestry-biology problems in the far North that make it difficult to set definite rules in topographic mapping. Summary in German.

**Copy seen:** DLC.

**23830. LIHTONEN, V.** Mitä Perä-Pohjolan metsät lupaavat? (Metsätaloudellinen aikakauslehti (Finska forst-föreningen), 1950. v. 65, no. 5, p. 123-26) **Title tr.:** Prospects of the forests in the far North.

Outline of the principle features of a forestry policy for the Kemi River forest areas, with a view to (1) raising the output of these forests to that of normal natural forests, (2) maintaining the annual cutting rate at a stable level, and if possible (3) raising that level. Author notes current measures towards these ends and suggests further means towards increasing both yield and production in this northern Finnish forest area. Summary in English.

**Copy seen:** DA.

**23831. LIHTONEN, V.** Piirteitä valtion metsätaloudesta. Helsinki, 1949. 46 p., illus., diags., maps. (Silva fennica, 66) **Title tr.:** Features of state forest economy.

Contains description of the government-owned forests of Finland, about 61.5 per cent of which are in the North, their comparison on a (four) regional basis; history of state forest ownership; distribution of the forests and transportation conditions; comparison of state and privately-owned forests; state forest management; sales; selective cutting, its purposes, quantity and costs; reforestation; swamp drainage; protection from fires; national parks; development of forest economy. **Copy seen:** DLC.

**23832. LIHTONEN, V.** Tutkimuksia hakkuutoiminnan voimaperäisyyden teki-  
jöistä ja tunnuksista pääasiallisesti val-  
tion metsätaloudesta saadun aineiston  
valoosa. Helsinki, 1948. 144 p., illus.,  
maps, tables, diags. (Acta forestalia  
fennica, 55:3) **Title tr.:** Investiga-  
tions of factors and characteristics in-  
fluencing the intensity of timber cutting,  
based mainly on government forest  
economy material.

Contains data on the economic geog-  
raphy of the state forests, amount of  
timber cut, 1924-43, developing the  
'economic results' ("the difference be-  
tween income and expenditure of the  
forest districts expressed in marks per  
hectare of productive forest land"), the  
volume and intensity of timber cutting  
and the economic result. Conclusion:  
improved transportation facilities are  
needed for fuller utilization of state  
forest resources; floating motor-road and  
railroad transport is recommended for  
the northern part of the country where  
timber resources are richest. Map (p. 21)  
shows localities of industrial activity  
in northernmost Finland in relation  
to timber resources. Bibliography (30  
items). Summary (also caption and  
index of tables, etc.) in English, p. 136-44.

**Copy seen:** DLC.

**23833. LIHTONEN, V.** Valtakunnan  
metsätalouden järjestely metsiemme pois-  
tuman ja tuottohakkaus määrän valos-  
sa. Helsinki, 1947. 131 p., maps, tables.  
(Acta forestalia fennica, v. 53, no. 3) **Title tr.:** Regulation of Finnish forestry  
in the light of removal and rental cut.

Contains sections on the material, and  
methods of the investigation (which  
included the northern regions of the  
country); analysis of removal in Finnish  
forests in the years 1935-45; volume of  
rental cut; regulation of Finnish forestry.  
Bibliography (15 items). Summary in  
German.

**Copy seen:** DA.

**23834. LIIMOLA, MATTI E.** Etymolo-  
gische Bemerkungen. (Finnisch-  
ugrische Forschungen, 1934. Bd. 22, p.  
168-75) **Title tr.:** Etymological notes.

Vogel *pēti* (to cook), *osyi* (to scrape),  
and *xāp* (ship).

**Copy seen:** DLC; InU.

**23835. LIIMOLA, MATTI E.** Etymolo-  
gische Bemerkungen. (Finnisch-  
ugrische Forschungen, 1939-40. Bd. 26,  
p. 80-89; p. 188-210) **Title tr.:** Ety-  
mological notes.

Investigation of Vogulian words for: "to tickle", "an itching", "to fill a hole", "to fall apart", "to snatch up"; Zyryan "to flay"; Lappish "to scrape a hide". In the second part (p. 188-210) are notes on Vogulian words for: "stomach pain", "to press", "coal", "to know"; Lapp words for: "failing"; Zyryan for: "slope", "fence across the river for fishing".

**Copy seen:** DLC; InU.

**23836. LIIMOLA, MATTI E.** Etymologische Bemerkungen. (Finnisch-ugrische Forschungen, 1944. Bd. 28, p. 77-90) **Title tr.:** Etymological notes.

**Contains** among other things, etymologies for certain Vogulian words e. g. those meaning "carving of a picture or sign on a tree after killing a bear", "chip, piece, morsel", "blunt arrow for squirrel hunting", "a little basket from bark", and a cursing phrase "as-pi"; also an explanation of the Zyryan word "vii" (border) and its Vogulian equivalents.

**Copy seen:** DLC; InU.

**23837. LIIMOLA, MATTI E.** Etymologische Bemerkungen. (Finnisch-ugrische Forschungen, 1946. Bd. 29, p. 168-78) **Title tr.:** Etymological notes.

**Etymologies** of the Vogulian words for: "foggy", "to shave, to shear", "the blunt arrow for the squirrel hunt", "frost", and the Ostyak word for "to peel".

**Copy seen:** DLC; InU.

**23838. LIIMOLA, MATTI E.** Etymologische Bemerkungen. (Suomalais-ugrilainen seura. Toimituksia, 1950. v. 98, p. 137-47) **Title tr.:** Etymological remarks.

**Etymological** explanations of the following words are given: Vogul *äš* "father of the mother", Vog. *käläp*, *källöB* "flat of the hand"; Hung. *hull* "to fall"; and Vog. *töxi uj* "besides each other".

**Copy seen:** DLC; InU.

**23839. LIIMOLA, MATTI E.** Zu den wogulischen Personalpronomen. (Finnisch-ugrische Forschungen, 1944. Bd. 28, p. 20-56) **Title tr.:** On the Vogulian personal pronouns.

**On the absolute and emphatic forms** of personal pronouns in Vogulian.

**Copy seen:** DLC; InU.

**23840. LIINAHARJA, M.** Jäämeren radan päätepisteestä. (Teknillinen aikakauslehti, 1921. v. 11, no. 2, p. 110-11, map) **Title tr.:** On the terminus of the proposed railroad to the Arctic Ocean.

In reply to Nyberg, q. v., the author presents data to show advantages and economy of making Petsamo the terminus of the proposed northern railroad rather than Vaitalahti (Vayda Guba on Rybachiy Peninsula), both places being comparatively ice free, but the latter farther north.

**Copy seen:** DLC.

**23841. LIINAHARJA, M.** Kyrönyläns-Petschengan maantie. (Teknillinen aikakauslehti, 1919. v. 9, no. 5-6, p. 193-96, map) **Title tr.:** The road from Kyrö to Pechenga.

**Contains** data on the construction features, costs and current status of the road (then) being built from Kyrö by Lake Inari, 217 km. north to Pechenga.

**Copy seen:** DLC.

**23842. LIINAHARJA, M.** Lähimmistä tehtävistämme Petsamossa. (Teknillinen aikakauslehti, 1920. v. 10, no. 11, p. 346-47) **Title tr.:** The most immediate things to do in Petsamo.

**Suggestion** for building a road and railroad from Rovaniemi to Petsamo as a means of utilizing the area and helping to develop its population.

**Copy seen:** DLC.

**23843. LIINAHARJA, M.** Muurmanin rannikon satamista. (Teknillinen aikakauslehti, 1920. v. 10, p. 63-69, illus., map) **Title tr.:** The ports on the Murmansk coast.

**Contains** a geographical description of the Murmansk region and survey of its principal ports and natural harbors (Petsamo, Aleksandrovska, Kola Bay, etc.) particularly with regard to their potential development in the future.

**Copy seen:** DLC.

**23844. LIINAHARJA, M.** Petsamoko vai Vaidalahti jäämeren ratamme päätepisteeksi. (Teknillinen aikakauslehti, 1921. v. 11, p. 457-59) **Title tr.:** Petsamo or Vaidalahti as the terminus of the proposed railroad to the Arctic Ocean.

**Author** summarizes the advantages and disadvantages of both places and concludes that Petsamo is a more logical and less expensive terminus than Vaidalahti (Vayda Guba on Rybachiy Peninsula) in regard to construction of both railroad and harbor.

**Copy seen:** DLC.

**23845. LIKHAREV, BORIS KONSTANTINOVICH.** 1887-. Geologicheskije issledovanija v ūžnom Timane (s

paleontologicheskoi zametkoi o nekotorykh *Productus* iz timanskogo nizhnego karbona). (Leningrad. Tsentral'nyi nauchno-issledovatel'skii geologorazvedochnyi institut. Trudy, 1931. vyp. 150, p. 1-42, map) **Title tr.:** Geological explorations in the southern Timan (with a paleontological note on some species of *Productus* from the lower Carboniferous).

Contains the results of the author's investigation of the southern Timan Ridge in Arkhangel'sk province in 1932, with data on its geological formation: metamorphic schists; the upper Devonian; lower, middle and upper Carboniferous; lower and upper Permian, Jurassic deposits and post-Tertiary deposits; tectonics and mineral resources. The paleontological abstract contains descriptions of *Productus striatus* and *P. ischmaensis*. Summary in English, p. 36-42.

**Copy seen:** MH-Z.

**23846. LIKHAREV, BORIS KONSTANTINOVICH, 1887-** . Notiz über permische Ablagerungen des Kolyma-Landes, Ost. Sibirien. (Akademiia nauk SSSR. Izvestiia, seriia 7, Otdelenie matematicheskikh i estestvennykh nauk, 1932, no. 1, p. 93-98) **Title tr.:** Note on Permian sediments in the Kolyma region, East Siberia.

Contains a preliminary description of paleontological material brought home by S. V. Obruchevo, with a list of 33 fossil brachiopods (two marked as new but not described) and data on relationship with other fossil faunas. Summary in Russian.

**Copy seen:** DLC; MH.

**23847. LIKHAREV, BORIS KONSTANTINOVICH, 1887-** . O novom permskom *Spirifer*, priblizhaushchemsia k *S. striatus* Sow. (Akademiia nauk SSSR. Izvestiia. Otdelenie biologicheskikh nauk. Serii biologicheskai, 1943, no. 5, p. 279-85, illus.) **Title tr.:** On the new Permian *Spirifer* approaching the species of *Sp. striatus* Sowerby.

Contains Russian and English descriptions of *Spirifer kaniensis* a new species from Permian deposits on the eastern coast of the Kanin Peninsula and a comparison with a related species, *S. striatus*.

**Copy seen:** MH.

**23848. LIKHAREV, BORIS KONSTANTINOVICH, 1887-** , and O. L. EĖNOR. On the age of the upper Paleozoic deposits of the south-eastern part of the Kolyma basin. (Akademiia nauk SSSR. Comptes

rendus (Doklady), 1941. nouv. ser., v. 31, no. 2, p. 150-52)

"The deposits are assigned to the lower Carboniferous and Permian. Several new species are noted but not described, and *Kolymia* n. g. is described."—Geological Society of America. *Bibliography and index of geology*, 1941-42. v. 9, p. 177.

**Copy seen:** DLC.

**23849. LIKHAREV, I. M., and E. S. RAMMELMEIER.** Nazemnye molluski fauny SSSR. Moskva, 1952. 511 p. 420 fig. (Akademiia nauk SSSR. Opredeliteli po faune SSSR. no. 32) **Title tr.:** Terrestrial molluscs of the fauna of the U.S.S.R.

Contains in the first part (p. 5-103) a systematic index of the genera of terrestrial molluscs of the U.S.S.R., and an introduction dealing with their morphology and physiology, ecology, geographic distribution, history, and economic importance. The methods of study are outlined and a bibliography (about 325 items) appended. In the systematic part, (p. 105-493) are keys to the families, genera and species and brief descriptions of all known species, inhabiting the U.S.S.R., with synonyms and data on distribution there and in other countries; index of Latin names. Many species native to northern regions of the European and Asiatic U.S.S.R. are included.

**Copy seen:** DLC; MH-Z.

**23850. LILLJEBORG, WILHELM, 1816-1908.** Beitrag zur Ornithologie des nördlichen Russland und Norwegen, gesammelt während einer wissenschaftlichen Reise in diesen Landen in Jahre 1848. (Naumannia, 1852. Bd. 2, Heft 2, p. 87-119) **Title tr.:** A contribution to ornithological fauna of northern Russia and Norway made during a scientific trip to those countries in 1848.

Contains a general sketch and comparison of the bird faunas of northern Russia and Norway, followed by a list of 127 birds native to northern European Russia (Arkhangel'sk province), including Latin diagnoses of *Sylvia (Salicaria) magnirostris* n. sp. and a few more interesting species. Another list of 66 birds inhabiting Tromsø province in northern Norway is also given.

**Copy seen:** MH-Z.

**23851. LILLJEBORG, WILHELM, 1816-1908.** Cladocera Sueciae oder Beiträge zur Kenntniss der in Schweden lebenden Krebstiere von der Ordnung der Brachiopoden der Unterordnung der Clado-

ceren. Upsala, E. Berling, 1901. ii, vi, 701 p. plates 1-87. (Societas scientiarum Upsaliensis. Nova acta, ser. 3, v. 19) **Title tr.:** Cladocera of Sweden or contributions to the knowledge of crustaceans of the order Branchiopoda, suborder Cladocera, living in Sweden.

**Contains** a critical revision of all known branchiopods of the suborder Cladocera, living in fresh-water basins of Sweden, with data on general characteristics and systematic subdivision of the suborder. A systematic enumeration of about 150 species of these crustaceans is given, with Latin diagnoses, synonyms, descriptions, critical notes and data on habitat and on distribution in Sweden also other countries. Bibliography (39 items), index, and (p. 665-701) explanations to the tables. Some species native to Swedish Lapland are included. **Copy seen:** MH-Z.

**23852. LILLJEBORG, WILHELM, 1816-1908.** Descriptions de deux espèces nouvelles de *Diaptomus* du Nord de l'Europe. (Société zoologique de France. Bulletin, 1888. t. 13, no. 6, p. 156-58) **Title tr.:** Descriptions of two new species of *Diaptomus* from the European North.

**Contains** Latin diagnoses of two crustaceans, *Diaptomus graciloides* and *D. serricornis* n. spp., collected in fresh-water basins of the Kola Peninsula, during the expedition of H. Sandeberg in 1877.

**Copy seen:** MH-Z.

**23853. LINBERG, B. Z.** Primenenie tsitotoksicheskoi antiretikul'farnoi syvotki akad. A. A. Bogomol'sa pri lechenii nekotorykh ranenii i otmorozhenii v tylovom evakogospitale. (Sovetskaiâ meditsina, 1943. god 7, no. 1, p. 4-5) **Title tr.:** The application of cytotoxic antireticular serum of Bogomolefs in the cure of some wounds and frostbite in the rear evacuation hospitals.

**Contains** an account based on 109 cases, 24 of them frostbite. In treating wounds and frostbite, the serum was not used as a basic method, but as an agent supporting the low reaction of the connective tissue; in 50 percent of cases of frostbite a decisive improvement of the healing process was noted.

**Copy seen:** DLC.

**23854. LINCOLN, FREDERICK CHARLES, 1892-** The migration of North American birds. Washington, D. C. 1935. 72 p. illus., maps (U. S. Dept. of Agriculture. Circular no. 363).

Supersedes Dept. bulletin 185, *Bird migration*, by Wells W. Cooke, 1915.

**Contains** sections on migration, its advantages, causes, theories; times of migration; speed, altitude, orientation, etc.; distances and destinations; migration routes and their evolution; vertical and vagrant migration; migration in relation to weather, its perils and other problems. Since migration is almost exclusively in a north-south (and vice versa) direction, numerous references to arctic areas and to species spending the summer within them, are found in the text, e. g.: northern areas and theory of migration (p. 5-6); migrations of black and white warblers (p. 9-10), the cliff swallow (p. 13), Canada goose (p. 17), arctic tern (p. 31-33), golden-plover (p. 39-42), and many other species. The chapters "Routes of migration" (p. 33-52) and "Evolution of migration routes" (p. 52-55) are to a large extent concerned with arctic areas and problems. Bibliography (46 items). A second edition with slight change was published in 1950 under the title "Migration of birds" (U. S. Fish and Wildlife Service, Circular no. 16) and is reviewed in *Arctic*, Nov. 1952. v. 5, no. 1, p. 56-57. A trade edition entitled "The migration of American birds" (New York, Doubleday, Doran & Co., 1939, xii, 189 p.) covers much the same field.

**Copy seen:** DA.

**23855. LINDAHL, ERIK, and JOHAN ÖHRLING.** Lexicon lapponicum, cum interpretatione vocabulorum sveco-latina et indice svecano-lapponico [etc.]. Holmiae, typis Joh. G. Lange, 1780. [iii]-3 p. l, lxxx, 716 p. **Title tr.:** Lapp dictionary with words explained in Latin and Swedish, and a Swedish-Lappish index.

**Contains** a foreword by Johan Ihre in Latin and Swedish (p. i-xxix); an "epitome of Lappish grammar" (p. xxx-lxxx) also in Latin and Swedish by Joh. J. Öhring. Then follows the Lappish-Latin-Swedish dictionary (p. 1-584) and finally the smaller Swedish-Lappish vocabulary (p. 585-716). This is the literary "southern Lappish", later used in the bible (1800-11) and hymn books (1849-95). According to Wiklund, it is an artificial language, a compound of various southern dialects, the basis being that of Västerbotten.

**Copy seen:** DLC; InU.

**23856. LINDBERG, G. U.** O sistematiike i rasprostranienii peschanok roda

*Ammodytes* (Pisces). (Akademii nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1937. no. 27, p. 85-93)

**Title tr.:** On the classification and distribution of the sand-lance genus *Ammodytes* (Pisces).

Contains a key for the determination of the species of the genus *Ammodytes* and descriptions of four species and varieties, including *A. hexapterus murmanicus* n. sp., native to the Murman coast, Barents Sea, *Ammodytes hexapterus* (Bering Sea, Okhotsk Sea, Barents Sea) and *A. hexapterus hexapterus* (Okhotsk Sea and Bering Sea), with synonymy, biometric analyses and data on distribution. Summary in English.

**Copy seen:** DLC; MH-Z.

**23857. LINDBERG, G. U., and A. P. ANDRIĀSHEV.** Obzor roda *Sarritor*, Cramer (Pisces, Agonidae) iz dal'nevostochnykh morei. (In: Akademiia nauk SSSR. Zoologicheskii institut. Issledovaniia dal'nevostochnykh morei SSSR. vyp. 2, 1950, p. 293-302, illus.) **Title tr.:** A review of the genus *Sarritor* Cramer (Pisces, Agonidae) from the Far Eastern seas.

Contains a review of this genus from the Japan, Okhotsk and Bering Seas, areas hitherto little studied with regard to these fishes. The study is largely based on collections of the Zoological Institute of the Academy of Sciences of U.S.S.R., made during recent years, and deals mainly with the taxonomic status and geographic distribution of the component forms. A section on generic characteristics with a key to species precedes the treatment of the species and lower units. Morphology, comparative data, color distribution, etc., are given for each form.

**Copy seen:** DLC.

**23858. LINDBERG, G. U.** Zametka o kamchatskom khariuse (*Thymallus arcticus pallasi* Val.). (Vladivostok. Tikhookeanskii nauchno-issled. institut rybnogo khozjalstva i okeanografii. Izvestiia, 1928, t. 1, vyp. 1, p. 317-24, plate) **Title tr.:** Note on the Kamchatka grayling (*Thymallus arcticus pallasi* Val.)

Contains a Russian description and an English (p. 324) diagnosis of Kamchatka grayling collected in Krivoye Katno River, in the Bol'shaya River basin on western coast of the Peninsula; tabulated measurements of this fish from various regions (Khatanga River, Siberia) and dimensions of some related varieties (*Thymallus arcticus baikalensis*, *T. grubei*

and *T. a. grubei*) are given. Summary in English.

**Copy seen:** MH-Z.

**LINDBERG, G. U.,** see also Gur'ianova, E. F., & G. U. Lindberg. Uspekhi Sovetskikh gidrobiol. issled. 1937. No. 22286.

**LINDBERG, G. U.,** see also Soldatov, V. K., & G. U. Lindberg. On new genus & species of Zoarcidae from Okhotsk Sea. 1933. No. 26328.

**23859. LINDBERG, HÅKAN, 1898- .** *Empoasca borealis* n. sp. und *Boreotettix* (n. gen.) *serricauda* (Kontk.) (Hom. Cicad.) aus Nordfinland. (Notulae entomologicae, 1952. v. 32, no. 4, p. 114-147, illus.) **Title tr.:** *Empoasca borealis* n. sp. and *Boreotettix* (n. gen.) *serricauda* (Kontk.) (Hom. Cicad.) from northern Finland.

Contains Latin diagnoses of a cicad, *Empoasca borealis* n. sp., *Boreotettix* n. gen. and an improved description of *B. (Cosmotettix) serricauda* collected by the author near Rovaniemi, Finnish Lapland.

**Copy seen:** MH-Z.

**23860. LINDBERG, HÅKAN, 1898- .** Ergänzenze Beschreibung von *Cixidia confinis* Zett. (Hom. Achilidae) nebst Bemerkungen über zwei andere Achiliden. (Notulae entomologicae, 1927. v. 7, no. 3, p. 88-90) **Title tr.:** A supplementary description of *Cixidia confinis* Zett. (Hom. Achilidae) with notes on two other Achilidae.

Contains supplementary descriptive notes on a homopter, *Cixidia confinis*, described by Zetterstedt in his *Insecta lapponica*, 1840, q. v., and critical notes on *Helicoptera lapponica*, native to Kemi Lappmark (Tornea).

**Copy seen:** DLC; MH-Z.

**23861. LINDBERG, HÅKAN, 1898- .** Die finnländischen Arten der *Thamnotettix quadrinotatus*-Gruppe (Hom. Cicad.) (Notulae entomologicae, 1938. v. 18, no. 1, p. 1-4) **Title tr.:** Finnish species of the group *Thamnotettix quadrinotatus* (Hom. Cicad.)

Contains data on distribution of nine species of homopters of the *Thamnotettix quadrinotatus* group, including *T. quadrinotatus*, native to Kemi Lappmark, and *T. intermedius* occurring in Finnish and Russian Lapland.

**Copy seen:** DLC; MH-Z.

**23862. LINDBERG, HÅKAN, 1898- .** Fjärilfynd i Enontekis Lappmark.

(Notulae entomologicae, 1928. v. 8, no. 4, p. 113-14) **Title tr.:** Lepidoptera from Enontekis Lappmark.

**Contains** a list of 37 butterflies and moths collected by the author in July, 1924, during his trip to the Enontekis region of Finnish Lapland; one species is probably new to science.

**Copy seen:** DLC; MH-Z.

**23863. LINDBERG, HÅKAN, 1898-** . Hemipterfynd från nordligaste Norge och Sverige. (Notulae entomologicae, 1926. v. 6, no. 4, p. 109-113, illus.) **Title tr.:** Hemiptera finds in northernmost Norway and Sweden.

**Contains** a Latin diagnosis of *Deltoccephalus abiskoensis* n. sp., found in Abisko, Torne Lappmark, Sweden, and a list of 44 bugs collected by the author in northern Norway (Skibotn) and Swedish Lapland (Karesuando, Abisko region) in the summer of 1924.

**Copy seen:** DLC; MH-Z.

**23864. LINDBERG, HÅKAN, 1898-** . Die ostfennoskandischen Arten der Gattung *Haltica* Geoffr. (Col. Chrysom.) (Notulae entomologicae, 1926. v. 6, no. 3, p. 65-76, illus.) **Title tr.:** Eastern Fennoscandian species of the genus *Haltica* Geoffr. (Col. Chrysom.)

**Contains** descriptions and data on the ecology and geographic distribution of six beetles (one new) of the genus *Haltica*, native to eastern Fennoscandia, including *H. oleracea*, *H. sandini* and *H. engstromi*, native to Finnish and Russian Lapland; and a key for the determination of the species.

**Copy seen:** DLC; MH-Z.

**23865. LINDBERG, HÅKAN, 1898-** . Die ostfennoskandischen *Cicadula*-Arten. (Notulae entomologicae, 1937. v. 17, no. 4, p. 141-46, illus.) **Title tr.:** *Cicadula* species of eastern Fennoscandia.

**Contains** a review of the study of homopterous genus *Cicadula* and a list of ten species with localities in eastern Fennoscandia, including *Cicadula 8-notata* and *C. alpina*, native to Finnish and Russian Lapland.

**Copy seen:** DLC; MH-Z.

**23866. LINDBERG, HÅKAN, 1898-** . Über Heteropteren, gesammelt von Y. Wuorentaus im Gouvernement Jenisejsk. (Notulae entomologicae, 1921. v. 1, no. 2, p. 46-51) **Title tr.:** On Heteroptera collected by Y. Wuorentaus in Yeniseysk province.

**Contains** a systematic list of about 100 heteroptera collected by Yrjö Wuorentaus

in the valley of the Yenisey River, western Siberia, during his trip in the summer of 1915, including *Emblethis brevilarsis* n. sp. and 22 species new to the fauna of this region; a few species were collected in the vicinity of Dudinka, near the mouth of Yenisey River.

**Copy seen:** DLC; MH-Z.

**23867. LINDBERG, HÅKAN, 1898-** . Über ostfennoskandische Funde dreier *Callicoriza*-Arten. (Notulae entomologicae, 1951. v. 31, no. 3-4, p. 127-28) **Title tr.:** On finds of three *Callicoriza* species in eastern Fennoscandia.

**Contains** a study of geographic distribution of three related species of aquatic bugs of heteropterous genus *Callicoriza*, including *C. wollastoni* and *C. producta*, native to Finnish and Russian Lapland.

**Copy seen:** MH-Z.

**23868. LINDBERG, HÅKAN, 1898-** . Verzeichnis der von B. Poppius im Lena-Tal gesammelten Heteropteren. (Notulae entomologicae, 1928. v. 8, no. 1, p. 23-29) **Title tr.:** A list of Heteroptera collected by B. Poppius in the valley of Lena River.

**Contains** a systematic list of 70 bugs collected in 1901 by Poppius on his exploring trip from Irkutsk to the mouth of Lena River; most of specimens were gathered in the upper course of the Lena, but some were taken near Zhigansk (67° N.) and further north.

**Copy seen:** DLC; MH-Z.

**23869. LINDBERG, HÅKAN, 1898-** . Zwei neue Fundorte für *Brychius elevatus*. (Notulae entomologicae, 1930. v. 10, no. 4, p. 123-26, illus., text map) **Title tr.:** Two new localities for *Brychius elevatus*.

**Contains** a survey of geographic distribution in Fennoscandia of three subspecies of a very variable aquatic beetle, *Brychius elevatus*; the subspecies *cristatus* is occurring in the Kuusamo region of Finland, and in Finnish and Russian Lapland.

**Copy seen:** DLC; MH-Z.

**23870. LINDBERG, HARALD, 1871-** . Bidrag till kännedomen om skalbaggsfauna i Sverige. (Notulae entomologicae, 1936. v. 16, no. 4, p. 110-22) **Title tr.:** A contribution to the knowledge of the Coleoptera fauna of Sweden.

**Contains** a list of beetles occurring in Sweden, based on collection of the author and Håkan and Pär Harald Lindberg (1640 species), with localities, time of the

find and initials of collector; seven species are new to the fauna of Sweden. Includes a number of species collected by the author in Abisko and Karesuando, Finnish Lapland in 1924.

**Copy seen:** MH-Z.

**23871. LINDBERG, HARALD, 1871-** . *Clambus-arternas utbredning i Finland.* (Notulae entomologicae, 1938. v. 18, no. 2, p. 68-69) **Title tr.:** Distribution of *Clambus* species in Finland.

Contains data on geographic distribution in Finland of four species of coleopterous genus *Clambus*, including *C. punctulum* from Kuusamo and *C. pubescens* occurring in Kemi Lappmark.

**Copy seen:** DLC; MH-Z.

**23872. LINDBERG, HARALD, 1871-** . *Corticariini från Finland i coll. Lindberg.* (Notulae entomologicae, 1938. v. 18, no. 1, p. 64-65) **Title tr.:** *Corticaria* species from Finland in the Lindberg collection.

Contains a list of 23 species (two are new to the fauna of Finland), including eleven species native to the Kuusamo region and Finnish Lapland, collected by the author, and by Håkan and Pär Harald Lindberg.

**Copy seen:** DLC.

**23873. LINDBERG, HARALD, 1871-** . [*Cyphon-arternas utbredning i Fennoskandien.*] (Notulae entomologicae, 1948. v. 28, no. 1-2, p. 57-59) **Title tr.:** [On the distribution of *Cyphon* species in eastern Fennoscandia.]

Contains a study (without formal title) of geographic distribution in eastern Fennoscandia of ten species of genus *Cyphon*, represented by 641 species in the author's collection, including five species occurring in the Kuusamo region and Finnish Lapland; brief data on their ecology.

**Copy seen:** DLC; MH-Z.

**23874. LINDBERG, HARALD, 1871-** . *De till Phyllopecta s. str. (Col. Chrysom.) hörande arternas utbredning i Fennoscandia orientalis.* (Notulae entomologicae, 1938. v. 18, no. 1, p. 21-28, illus., text maps) **Title tr.:** On the distribution of *Phyllopecta* (s. str.) (col. Chrysom.) species in eastern Fennoscandia.

Contains a study of geographic distribution of four species of coleopterous genus *Phyllopecta* (s. str.) in eastern Fennoscandia, with a list of localities for each species (see text maps); includes *P. vittellinae* and *P. polaris* native to Kuusamo, and Finnish and Russian Lapland,

and *P. laticollis* and *P. atrovirens* occurring in the Kuusamo region.

**Copy seen:** DLC; MH-Z.

**23875. LINDBERG, HARALD, 1871-** . *Finlands Gyrophaena-arter (Col., Staph.) och deras utbredning inom landet.* (Notulae entomologicae, 1938. v. 18, no. 2, p. 29-39, illus., text maps 1-5) **Title tr.:** *Gyrophaena* species and their distribution in Finland.

Contains a study of the geographic distribution in Finland of 15 species of rove beetles of the genus *Gyrophaena*, with lists of localities for each species including *G. nana* spreading to Tornea in northern Ostrobothnia, and Salla in Kuusamo, also a table for the determination of the species.

**Copy seen:** DLC; MH-Z.

**23876. LINDBERG, HARALD, 1871-** . *Finlands Hydraena-arter.* (Notulae entomologicae, 1934. v. 14, no. 4, p. 98-100) **Title tr.:** *Hydraena* species of Finland.

Contains descriptive notes and data on distribution of three beetles of the genus *Hydraena* occurring in Finland, including *H. britteni* native to Petsamo in Finnish Lapland, and *P. gracilis* from the Kuusamo region.

**Copy seen:** DLC; MH-Z.

**23877. LINDBERG, HARALD, 1871-** . *Finlands Olibrus-arter.* (Notulae entomologicae, 1938. v. 18, no. 1, p. 67-68) **Title tr.:** *Olibrus* species of Finland.

Contains critical notes and data on distribution of five beetles of the genus *Olibrus*, occurring in Finland, including *O. acneus* and *O. bimaculatus* from the Kuusamo region.

**Copy seen:** DLC; MH-Z.

**23878. LINDBERG, HARALD, 1871-** . *Finlands Sitona-arter (Col., Curc.).* (Notulae entomologicae, 1933. v. 13, no. 3-4, p. 92-103) **Title tr.:** *Sitona* (Col., Curc.) species of Finland.

Contains a key to 11 species of coleopterous genus *Sitona*, a survey of its geographic distribution in Finland, Norway, Sweden and Denmark and a list of 11 Finnish species with localities for each species, including Finnish and Russian Lapland (3 species).

**Copy seen:** DLC; MH-Z.

**23879. LINDBERG, HARALD, 1871-** . *Die nordischen Alchemilla vulgaris-Formen und ihre Verbreitung.* Helsingfors, 1909. 172 p., 35 plates, illus., maps. (Finska

vetenskaps-societeten. Acta Societatis Scientiarum Fennicae, 37:10) **Title tr.:** Northern *Alchemilla vulgaris* forms and their distribution.

A contribution to the problem of the immigration of the Fennoscandian flora with special consideration of the Finnish flora: an historical sketch of this herb of the rose family; key to its species descriptions with localities (in detail) of 15 species; general discussion. Bibliography (about 100 items). **Copy seen:** DLC.

**23880. LINDBERG, HARALD, 1871-** . Nykomlingar till Finlands skalbaggs-fauna. (Notulae entomologicae, 1937. v. 17, no. 1, p. 17-23, illus.) **Title tr.:** Newcomers to Finland's beetle fauna.

**Contains** critical notes on six beetles previously known from various regions of Europe and later found in Finland, including *Aleochara (Coprochara) brundini* and *Atheta (Microdota) spatula* found in the Kuusamo region, and *Thymalus subtilis* discovered in Kuusamo and Petsamo regions of Finnish Lapland.

**Copy seen:** DLC; MH-Z.

**23881. LINDBERG, HARALD, 1871-** . Nykomlingar till Finlands skalbaggs-fauna, II. (Notulae entomologicae, 1938. v. 18, no. 2, p. 40-48, illus.) **Title tr.:** Newcomers to Finland's beetle fauna, II.

**Contains** descriptive and critical notes on 13 species of beetles new to the coleopterous fauna of Finland, including *Halicta opacifrons* n. sp. found in the Kuusamo and Petsamo regions living on *Calluna* and *Empetrum* shrubs, *H. tamaricis* (on *Salix*) from Kemi Lappmark, and *Corticaria munsteri* from the Petsamo region; for continuation see the author's *Nykomlingar III*, 1943.

**Copy seen:** DLC; MH-Z.

**23882. LINDBERG, HARALD, 1871-** . Nykomlingar till Finlands skalbaggs-fauna, III. (Notulae entomologicae, 1943. v. 23, no. 1-2, p. 50-58) **Title tr.:** A newcomer to Finland's beetle fauna, III.

**Contains** critical notes and discussion of distribution of a beetle, *Lomechusa inflata*, first described by Zetterstedt from Lapland, then reported from Norrbotten and finally found by the author in Helsing, the first known location in Finland.

**Copy seen:** DLC; MH-Z.

**23883. LINDBERG, HARALD, 1871-** . *Stenus erichsoni* Rye utgar ur Finlands fauna. (Notulae entomologicae, 1944.

v. 24, no. 3-4, p. 111-12) **Title tr.:** *Stenus erichsoni* Rye in the fauna of Finland.

**Contains** a study of the geographic distribution of a beetle, *Stenus erichsoni*, and another species closely related and often confused with it, *S. coarcticollis*, occurring in Kuusamo and Finnish Lapland.

**Copy seen:** DLC; MH-Z.

**23884. LINDBERG, K.** Contribution à l'étude de quelques cyclopidés (crustacés copépodes) du groupe strenuus, provenant principalement du Nord de l'Eurasie. (Arkiv för zoologi, 1950, pub. 1949. Bd. 1, nr. 8, p. 87-99, illus.) **Title tr.:** Contribution to the study of some cyclops (crustacean copepods) of the group *Strenuus*, originating principally in the Eurasian North.

**Contains** a critical revision of various fresh-water forms of *Cyclops strenuus* and one of *C. furcifer* (Crustacea copepoda) with descriptions of six forms (two new) native to the northern regions of Siberia, West Spitsbergen and Bear Island and a key to 23 female forms, covering all northern regions of Europe, Asia and Alaska. **Copy seen:** DSI-M; MH-Z.

**23885. LINDEMAN, KARL EDUARD-OVICH, 1844-1929.** Obzor geograficheskago rasprostraneniia zhukov v Rossiiskoi Imperii, chast' I. Provintsiia Sïevernaia, Moskovskaia i Turanskaia. (Russkoe entomologicheskoe obshchestvo, St. Petersburg. Trudy, 1871. t. 6, p. 41-360, fold. map) **Title tr.:** A review of geographic distribution of beetles in Russian Empire, part I. Northern, Moscow and Turan provinces.

**Contents include:** a bibliography (144 items), p. 49-58; a general sketch of coleopterous fauna of Russia with a criticism of geographic subdivision of this fauna by some Russian entomologists (Ershov and Fil'd, Mochul'skil, etc.); subdivision proposed by the author, p. 90 (see also the map); data on the Northern province (including Finland, northern European Russia and Siberia), with lists of the species and their distribution within the province, p. 91-139.

**Copy seen:** MH-Z.

**LINDENAU, IÄ. I.**, see Andreev, A. I. Russkie otkrytiia v Tikhom ok. i Sev. Amerike. 1948. No. 20216.

**23886. LINDER, FOLKE.** Contributions to the morphology and the taxonomy of the Branchiopoda Anostraca. (Zoo-

logiska bidrag från Uppsala, 1941. Bd. 20, p. 101-302, illus., plate)

Contains a critical survey of primitive crustaceans of the order Branchiopoda Anostraca, with a morphological study in the general part, p. 112-76, and with taxonomic data in special part, p. 177-296; including keys to (seven) families and species descriptions and critical notes on all known genera and species (13 species and two varieties described as new), synonyms, localities and data on distribution; a bibliography (125 items). Some of the species cover all parts of the world including the Arctic and Antarctic. **Copy seen:** MH-Z.

**23887. LINDGOL'M, VASIL'Ĭ ADOL'FOVICH.** Miscellaneous notes on palaearctic land and freshwater mollusks. (Akademiâ nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1922. t. 23, no. 3-4, p. 304-320)

Contains critical notes on land and fresh-water mollusks, including *Zonitoides arboreus* recorded from Petropavlovsk, Kamchatka and *Zoogenetes harpa* known from northern Siberia, Kamchatka and Bering Island.

**Copy seen:** DLC; MH-Z.

**23888. LINDGOL'M, VASIL'Ĭ ADOL'FOVICH.** Miscellen zur Malakozologie des Russischen Reiches, I-XIII. (Akademiâ nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1913. t. 18, no. 1, p. 151-67) **Title tr.:** Notes on malacology of the Russian Empire, I-XIII.

Contains in note no. X, a change of the name of a pond-snail (described earlier by Dr. Dybowski as *Planorbis moellendorffii* n. sp., from Kamchatka) to *Planorbis (Gyraulus) dybowskii* nom. nov.

**Copy seen:** DLC; MH-A.

**LINDGREN, LARS,** see Lindroth, H., & L. Lindgren. Metson hakomisen met-sänhoidollisesta, 1950. No. 23916.

**23889. LINDGREN, ROBERT.** Flodsystemet Mackenzie. Helsingfors, 1912. 73, 4 p. (Geografiska föreningen i Finland. Meddelanden, 1910-12. v. 9, no. 3) **Title tr.:** The Mackenzie River system.

Contains an historical sketch of exploration in the Mackenzie basin (noting the publications), followed by accounts of the river and each of its principal feeders rising in the Rocky Mts.: the Athabasca, Peace, Hay, Liard, and Peel Rivers and their tributaries. Drainage, length, direction, course, rapids,

area, etc., is given for each. Summary in French.

**Copy seen:** DLC.

**23890. LINDQUIST, BERTIL, 1904-** . *Juncus alpinus* Vill. var. *marshallii* (Pugs.) Lindq. in Scotland and the race differentiation in the species *J. alpinus* Vill. (Acta phytogeographica suecica, 1940. t. 13, Växtgeografiska studier tillägnade C. Skottsberg, p. 121-27, illus., text maps)

Contains a study of the race differentiation in the species of *Juncus alpinus* and its four varieties and their distribution, including var. *rariflorus* covering a wide belt over northern and eastern Europe, right across Siberia to Kamchatka, also var. *alpestris*, an arctic-circumpolar and alpine type and var. *marshallii* occurring in northern Scandinavia; the history of the development of these varieties, their migration and the influence of glaciation is discussed.

**Copy seen:** DA; MH-A.

**23891. LINDQUIST, BERTIL, 1904-** . The main varieties of *Picea abies* (L.) Karst. in Europe, with a contribution to the theory of a forest vegetation in Scandinavia during the last Pleistocene glaciation. (Acta horti bergiani, 1948. Bd. 14, no. 7, p. 249-342, illus., text maps)

Contents: morphological variations in the spruce, p. 250-53; the variations of pubescence in the annual spruce shoots, p. 253-61; distribution of spruce in Scandinavia, p. 261-90; *Picea abies* and its main varieties, p. 291-309; the immigration of the spruce into Scandinavia after the last Pleistocene glaciation, p. 309-325; some notes on the Scandinavian ice-age refuges and their tree vegetation, p. 325-35; literature cited (180 items), p. 335-42.

The region of the study includes Russian, Finnish and Swedish Lapland and northern Norway; a new variety, *P. abies arctica* n. var. (Kola Peninsula and northern Scandinavia) is described on p. 309.

**Copy seen:** DA; MH-A.

**23892. LINDQUIST, BERTIL, 1904-** . Om den vildväxande skogsalmens raser och deras utbredning i Nordvästeuropa. Uppsala, Almqvist & Wiksell, 1932. 56 p., illus. (Acta phytogeographica suecica, 4) **Title tr.:** The races of spontaneous *Ulmus glabra* Huds. and their distribution in northwestern Europe.

Contains a study of the races of a highly polymorphic elm, *Ulmus glabra*, growing

spontaneously in northwestern Europe, based on a large body of statistical material, with short Latin diagnoses of *U. glabra* var. *scabra*, n. var. occurring in Swedish Lapland and Nordland in northern Norway; also another new variety *montana* and subvar. *dasycarpa* with synonymy, critical notes, data on distribution and a list of localities in Scandinavia, Great Britain and Denmark. Bibliography (96 items). Summary in English. **Copy seen:** DA; MH-A.

**23893. LINDQUIST, BERTIL, 1904-** Studien über die Stammrindentypen der Gattung *Betula* L. (Acta horti bergiani, 1948, pub. 1946. Bd. 14, no. 4, p. 91-132, illus.) **Title tr.:** Studies of stem-rind types of the genus *Betula* L.

**Contains** an attempt at a classification of birches on the basis of their stem-rind characteristics, with descriptions of various types of bark, rind and lenticels, and a list of stem-rind types of birches cultivated in the Bergielund Botanical Garden (Hortus bergianus), including some species native to Swedish Lapland and three specimens of *Betula ermanii* from Hultén's Kamchatka collection; bibliography (42 items).

**Copy seen:** DA; MH-Z.

**23894. LINDQUIST, RUNE.** Polar blackouts recorded at the Kiruna Observatory. [Gothenburg] 1951. 24 p. photos., graphs. (Gothenburg, Sweden. Chalmers Tekniska Högskola. Handlingar, no. 103)

"Polar blackout is the name H. W. Wells gave the phenomenon of fadeout that shows no connection with solar flares, contrary to the ordinary ones occurring in the lower latitudes. The phenomenon was studied by E. V. Appleton (1932-1933) and by Bramholt and Seaton (1941). In the present study at Kiruna (67°50' N., 20°14.5' E., geomagnetic coordinates 65°19' N., 115°30' E.) a panoramic recorder (frequency range 1-16 Mc/s in 30 sec.) and a recording magnetometer were used. The preliminary results indicate that an abnormally high absorption, caused by the impact of some ionizing agent (maximum probably occurs below the 100 km. level)—some sort of corpuscular bombardment—is the cause."—*Meteorological abstracts and bibliography*, Sept. 1952. v. 3, no. 9, p. 911.

**Copy seen:** DWB.

**LINDQUIST, SVEN BERTIL GUN-  
VALD, see LINDQUIST, BERTIL, 1904-**

**23895. LINDQVIST, EITEL.** Einige neue Nematinen-Arten und -Aberrationen (Hym. Tenthr.). (Notulae entomologicae, 1941. v. 21, no. 2, p. 64-70) **Title tr.:** Some new species and aberrations of Nematinae (Hym. Tenthr.)

**Contains** descriptions of two new species and seven new aberrations of sawflies, including *A. helleni* n. sp., native to Finnish and Russian Lapland and Kuusamo and three new aberrations from Finnish and Russian Lapland.

**Copy seen:** DLC; MH-Z.

**23896. LINDQVIST, EITEL.** Hymenoptera tenthredinoidea; with an appendix by Wolter Hellén. (In: Brinck, P. S. V., & K. G. Wingstrand. *Mountain fauna of Virihaure*, 1949-51. pt. 2, p. 69-72)

**Contains** a list of 28 species of sawflies found in Virihaure region of Lule Lappmark and a German description (by W. Hellén) of a new species, *Amauronematus carbonarius*, from the same region.

**Copy seen:** MH-Z.

**23897. LINDQVIST, EITEL.** Neue nordische Blattwespen. (Notulae entomologicae, 1948, pub. 1949. v. 28, no. 3-4, p. 65-86, illus.) **Title tr.:** New northern sawflies.

**Contains** diagnoses of 20 new species of sawflies from northern Scandinavia and Kola Peninsula, including 13 species from Kuusamo region and Swedish, Finnish and Russian Lapland; one of these species, *Pachynematus freyi* was also collected by Wuorentaus at Dudinka on the lower Yenisey River in western Siberia.

**Copy seen:** DLC; MH-Z.

**23898. LINDQVIST, EITEL.** [9 för vår fauna tidigare okända tenthredinidformer.] (Notulae entomologicae, 1939. v. 19, no. 1-2, p. 48) **Title tr.:** [Nine tenthredinid forms previously unknown in the fauna of Finland.]

**Contains** a report (without a formal title) recording nine forms of sawflies new to the hymenopterous fauna of Finland collected in the Kuusamo region and Finnish Lapland.

**Copy seen:** DLC; MH-Z.

**23899. LINDQVIST, EITEL.** Über alte und neue *Lygaeonematus*-Arten. (Hym., Tenthredinidae). (Notulae entomologicae, 1952. v. 32, no. 1-3, p. 80-119, illus.) **Title tr.:** On old and new species of *Lygaeonematus*.

**Contains** a critical revision of the sawflies of the genus *Lygaeonematus* with de-

scriptions of two new subgenera, *Lygaeotus* and *Lygaeophora*, and 37 species of which ten are described as new; includes 12 species native to northern Fennoscandia and two species from Kamchatka Peninsula. **Copy seen:** MH-Z.

**23900. LINDQVIST, EITEL.** Über Blattwespen der *Amauronematus*-Gruppe. (Notulae entomologicae, 1945. v. 25, no. 3, p. 102-108, illus.) **Title tr.:** On sawflies of *Amauronematus* group.

**Contains** a critical study of sawflies of *Amauronematus* group, including description of *A. saarineni* n. sp., native to Finnish Lapland, and *A. erectus* n. sp. inhabiting Finnish and Swedish Lapland and northwestern Siberia (Dudinka, lower Yenisey); also critical notes on *A. leucolaenus* known from Kuusamo, northern Finland and Sarek, northern Norway.

**Copy seen:** DLC; MH-Z.

**23901. LINDQVIST, EITEL.** Über die von Holmgren beschriebenen Nematinen (Hym. Tenth.). (Notulae entomologicae, 1944. v. 24, no. 1-2, p. 13-18) **Title tr.:** On Nematinae (Hym. Tenth.) described by Holmgren.

**Contains** a critical revision of 16 species (one from Spitsbergen (in 1869) and 16 from Novaya Zemlya) of the genus *Nematus* described by A. E. Holmgren, in his *Insecta a virus Doc. Nordenskiöld, 1883, (Arctic Bibliography, No. 7325)*; seven Holmgren species are recognized as valid by the author.

**Copy seen:** DLC; MH-Z.

**23902. LINDQVIST, EITEL.** Über einige hochnordische Nematinen (Hym. Tenth.). (Notulae entomologicae, 1944. v. 24, no. 1-2, p. 18-24) **Title tr.:** On some far northern Nematinae (Hym. Tenth.).

**Contains** critical notes on four species of sawflies of the genus *Amauronematus*, including two from Novaya Zemlya and northern Finland, and four species of the genus *Pteronidea*, including *P. parviserata* n. sp., native to Kuusamo and Finnish Lapland, *P. poppii* from Petsamo and Enontekiä Lappmark and *P. lienterica* from Kola Peninsula.

**Copy seen:** DLC; MH-Z.

**23903. LINDQVIST, EITEL.** Zur Kenntnis einiger *Amauronematus*-Arten (Hym. Tenth.). (Notulae entomologicae, 1940, pub. 1941. v. 20, no. 2-4, p. 56-71) **Title tr.:** A contribution to the knowl-

edge of some *Amauronematus* species (Hym. Tenth.).

**Contains** a critical revision of northern species of sawflies of the hymenopterous genus *Amauronematus*, mostly described from Lapland by R. E. Malaise in his *Beiträge z. Kenntniss schwedischen Blattwespen*, 1921, q. v., and from Kamchatka Peninsula in his *Entomologische Ergebnisse der schwedischen Kamtschatka-Expedition 1931*, (see *Arctic Bibliography*, No. 10801); with critical notes on 25 forms and data on their larvae, living on *Salix* species.

**Copy seen:** DLC; MH-Z.

**23904. LINDQVIST, EITEL.** Zur Kenntnis einiger finnischen Nematinen (Hym. Tenth.). (Notulae entomologicae, 1942. v. 22, nr. 3-4, p. 99-108) **Title tr.:** Contribution to the knowledge of some Finnish Nematinae. (Hym. Tenth.)

**Contains** a diagnosis of *Amauronematus piliserra* n. sp., a sawfly occurring in Solovetskiye Islands of the White Sea, and descriptive notes on *Lygaeonematus mollis albipes* n. ab. found in Finnish and Russian Lapland, and *L. mollis rufonotata* n. ab. from Finnish Lapland.

**Copy seen:** DLC; MH-Z.

**23905. LINDROTH, CARL HILDEBRAND, 1905-** . Anmärkningar till några svenska Heteromerer. (Entomologisk tidskrift, 1930. Årg. 51, häft. 2, p. 112-33, illus.) **Title tr.:** Critical notes on some Swedish Heteromera.

**Contains** critical revision of 11 less known Swedish species of these beetles, with synonymy, keys and data on distribution, synopses of all Swedish species of the genera *Anaspis* and *Anthicus*, with data on distribution in Sweden and list of excluded and doubtful species; includes some species native to Swedish Lapland. Summary in German.

**Copy seen:** DA; MH-Z.

**23906. LINDROTH, CARL HILDEBRAND, 1905-** . *Bembidion tinctum* Zett. (nigripes Mannh.) und *dentellum* Thunb. (Entomologisk tidskrift, 1944. Årg. 65, häft. 3-4, p. 210-13, illus.)

**Contains** a critical study of two ground beetles (1) *Bembidion tinctum* described by Zetterstedt from Muonio in Finnish Lapland, and by Mannerheim as *nigripes* from Alaska, and (2) *B. dentellum* (up to 64° N. lat.). **Copy seen:** DA; MH-Z.

**23907. LINDROTH, CARL HILDEBRAND, 1905-** . *Bradycellus pondero-*

*sus* n. sp. aus Finland (Col.). (Notulae entomologicae, 1938, pub. 1939. v. 18, no. 4, p. 117-19, illus.) **Title tr.:** *Bradycellus ponderosus* from Finland (Col.)

**Contains** a diagnosis of *Bradycellus ponderosus* n. sp., found by the author near Paanajärvi, Kuusamo, northern Finland. **Copy seen:** DLC; MH-Z.

**23908. LINDROTH, CARL HILDEBRAND, 1905-** . Die Coleopterenfauna am See Pjeskejaure im schwedischen Lappland. (Arkiv för zoologi, 1936, pub. 1935. Bd. 28A, p. 1-60) **Title tr.:** Coleoptera fauna of Pjeskejaure Lake in Swedish Lapland.

**Contains** a general entomological description of the alpine region around Pjeskejaure (67° N.) and the adjacent mountainous districts, vertical subdivision, aquatic fauna, exotic element; a comparative table of distribution of 254 insects in six mountainous regions of Sweden (including Sarek and Torneträsk districts); and a systematic list of about 200 species of beetles native to Pjeskejaure and adjoining regions, with localities; bibliography (26 items).

**Copy seen:** DSI-M; MH-Z.

**23909. LINDROTH, CARL HILDEBRAND, 1905-** . Endemismus in der fennoskandischen Fauna, erläutert an der Fam. Carabidae. (Zoologiska bidrag från Uppsala, 1941. Bd. 20, p. 431-42, text map) **Title tr.:** Endemism in the fauna of Fennoscandia as demonstrated in the family Carabidae.

**Contains** a list of 23 species of ground beetles supposedly endemic in Fennoscandia, critical remarks and a review of them, with a discussion of the endemism in the fauna of that region. The author is of opinion that there is no one endemic species of Carabidae in Fennoscandia. At least seven of the species are native to northern regions.

**Copy seen:** MH-Z.

**23910. LINDROTH, CARL HILDEBRAND, 1905-** , and T. PALM. För Sverige nya Coleoptera jämte några dementier, I-II. (Entomologisk tidskrift, 1933, Årg. 54, häft. 2, p. 106-20; (II) 1934, Årg. 55, häft. 3-4, p. 273-80) **Title tr.:** Coleoptera new to the fauna of Sweden and descriptions of some species.

**Contains** (in pt. 1) descriptive notes on 23 beetles new to the fauna of Sweden, including at least eight species found in

Swedish Lapland or Norrbotten, and critical remarks on eight other species. In pt. II, are descriptive notes on 16 species, including *Bledius* (*Blediodes*) *longulus* from Piteå region, Norrbotten (previously known from Petsamo, Finland) and *Olophrum nigropiceum* found in Pjeskejaure, Pite Lappmark.

**Copy seen:** DA; MH-Z.

**23911. LINDROTH, CARL HILDEBRAND, 1905-** . Revision der Carabidae in Zetterstedt's "Insecta Lapponica". (Opuscula entomologica, 1938. Bd. 3, häft. 1-2, p. 10-25) **Title tr.:** Revision of Carabidae in Zetterstedt's *Insecta Lapponica*.

**Contains** a critical revision of ground beetles (Carabidae) of Swedish Lapland (in the present-day limits of this region) described by Zetterstedt in his *Insecta lapponica*, 1840, q. v., with enumeration of 119 species, their modern interpretation and data on geographic distribution in Sweden; a list of 20 excluded species and a list of 115 ground beetles known from Swedish Lapland at the present time, including the Zetterstedt's species.

**Copy seen:** DA; MH-Z.

**23912. LINDROTH, CARL HILDEBRAND, 1905-** . Über fünf Coleopteren-Arten C. G. Thomsons der Gattungen *Amara* Bon., *Hylophilus* Berth. and *Ceuthorrhynchus* Germ. (Entomologisk tidskrift, 1932, Årg. 53, häft. 4, p. 205-232, illus.) **Title tr.:** On five Coleoptera species of C. G. Thomson in the genera *Amara* Bon., *Hylophilus* Berth. and *Ceuthorrhynchus* Germ.

**Contains** a critical taxonomic study of five type species of beetles, described by C. G. Thomson, with synonymy, critical notes and data on geographic distribution and host plants; includes *Ceuthorrhynchus granulicollis* native to Finnmark, Norway.

**Copy seen:** DA; MH-Z.

**23913. LINDROTH, CARL HILDEBRAND, 1905-** . Zur Systematik fennoskandischer Carabiden, 2-3. (Entomologisk tidskrift, 1939, Årg. 60, häft. 1-2, p. 54-68, illus.) **Title tr.:** A contribution to the systematics of Fennoscandian Carabidae, 2-3.

**Contains** (in pt. 2) a comparative study of two ground beetles *Nebria nivalis* and *N. gyllenhalii* native to Swedish Lapland and northern Norway, and review of six forms of these species distributed in northern Scandinavia, Kola Peninsula, northern Asia and North

America (Labrador); in pt. 3, a critical study of *Elaphrus tuberculatus* (*latipennis* J. Sahlb., *tumidiceps* Munster) from Pjeskejaure region, Swedish Lapland. Pt. 1 (1935) does not contain arctic material. **Copy seen:** DA; MH-Z.

**23914. LINDROTH, CARL HILDEBRAND, 1905-** . Zur Systematik fenno-skandischer Carabiden, 4-12, *Bembidion*-Studien. (Notulae entomologicae, 1939. v. 19, no. 1-2, p. 63-99, illus.) **Title tr.:** Contributions to the systematics of Fennoscandian Carabidae, 4-12, *Bembidion*.

Contains a taxonomic study of Fennoscandian species of the genus *Bembidion*, based mostly on the investigation of the reproductive organs, with data on subgenus *Chrysobracteon* (northern Fennoscandia, North America, Siberia) and 38 species (one new) of *Bembidion*, including many native to northern Scandinavia and Kola Peninsula; geographic distribution in European and Asiatic Russia is also given; bibliography (61 items). **Copy seen:** DLC; MH-Z.

**23915. LINDROTH, CARL HILDEBRAND, 1905-** . Zur Systematik fenno-skandischer Carabiden, 13-33. *Dyschirius*, *Bembidion*, *Trechus*, *Patrobus*, *Badister*, *Harpalus*, *Bradycellus*, *Trichocellus*, *Amara*, *Calathus*, *Agonum*. (Entomologisk tidskrift, 1943. Årg. 64, häft. 1-2, p. 1-68, illus.) **Title tr.:** Contributions to the systematics of Fennoscandian Carabidae, 13-33. *Dyschirius* [etc.].

Contains taxonomic notes on 33 Fennoscandian species of ground beetles (Carabidae) in 11 genera (as listed in the title) from various regions, including *Bembidion* (*Daniela*) *scandicum* n. sp. from Abisko, Torne Lappmark, and Karasjok (69°10' N.) Norway, and at least 6 other species from northern Scandinavia and Kola Peninsula; the distribution in other arctic regions, especially European and Asiatic Russia, is also given; bibliography (103 items). **Copy seen:** DA; MH-Z.

**23916. LINDROTH, HELMER, and LARS LINDGREN.** Metson hakomisen metsänhoidollisesta merkityksestä. (Suomen riista, 1950. no. 5, p. 60-81, illus., diagrs., maps) **Title tr.:** On the significance for forestry of the capercaillie, *Tetrao urogallus* L., feeding on pine-needles, etc.

A study of the habits of capercaillies (grouse) and their damage to pine trees

during the period of snow cover in various regions of Finland including the North, with data also on the snow cover. Summary in Swedish and English.

**Copy seen:** DLC.

**LINDSAY, JEFFREY,** see *Alcan ingot*. For arctic living. 1952. No. 20125.

**LINDSAY, W. K.,** see Bigelow, W. G., & others. Hypothermia role in cardiac surgery. 1950. No. 20679.

**LINDSAY, W. K.,** see also Bigelow, W. G., & others. Oxygen transport & utilization in dogs at low body temperatures. 1950. No. 20680.

**23917. [LINDSLEY, THAYER.]** Substantial advances reported by Giant Yellow-knife president. (Precambrian, Oct. 1950. v. 23, no. 10, p. 41)

Review of development and exploration in Giant Yellowknife Gold Mines (near Yellowknife in Mackenzie District) as shown in the annual report for year ending May 31, 1950.

**Copy seen:** DGS.

**23918. LINDSTRÖM, MARTIN TH. V.** Entomogeografiska anteckningar, I. (Entomologisk tidskrift, 1929, Årg. 50, häft. 3-4, p. 222-34; (II) 1930, Årg. 51, häft. 1, p. 7-29) **Title tr.:** Entomogeographic notes, I-II.

Contains a systematic list of about 300 species of lepidoptera (mostly collected by the author during his exploring trip in the summer of 1928 to northern and central Sweden), with data on habitat and geographic distribution. Includes at least 60 species native to Swedish Lapland. Bibliography (36 items). Summary in German, pt. II.

**Copy seen:** DA; MH-Z; OU.

**23919. LINEVSKIĬ, A. M.** Karely. (Sovetskaja étnografiya. Sbornik statei, 1941. t. 5, p. 89-109) **Title tr.:** Karelians.

Contains description of the Karelian people, inhabitants of Russian Karelia, also of other localities in the U.S.S.R. (said to number 252,559 in 1939; only 100,000 in Karelia in 1926); they are closely related to the Finns. Author gives their physical characteristics, a geographical outline of their country, its history, occupations of the people, communications, villages and dwellings, clothing, food, medicine and hygiene,

social organization, religion, folklore, folk art, sovietization of the country, etc.

**Copy seen:** DLC.

**23920. LINGONBLAD, BIRGER.** *Aplectoides borealis* Nordström funnen i Finland. (Notulae entomologicae, 1943. v. 23, no. 1-2, p. 48-50, illus.) **Title tr.:** *Aplectoides borealis* Nordström found in Finland.

**Contains** a report of the find in the Muonio region of Kemi Lappmark in 1942, of a lepidopter, *Aplectoides borealis*, first found by Sahlberg in Imandra Lappmark, Kola Peninsula, and described by him as *Agrotis imandrensis*.

**Copy seen:** DLC; MH-Z.

**23921. LINGONBLAD, BIRGER.** Iakttagelser över finska Lepidoptera, II. Kilpisjärvi, Hetta (Le.), Muonio (Lkem). (Notulae entomologicae, 1936. v. 16, no. 1, p. 3-12, illus.) **Title tr.:** Observations on Finnish Lepidoptera, II. Kilpisjärvi, Hetta (Lapponia Enontekiensis), Muonio (Lapponia Kemensis).

**Contains** a list of 53 lepidoptera collected by the author in 1929 in Kilpisjärvi, and Hetta, in the Enontekis region of Finnish Lapland, with notes on habitat, ecology and local distribution; pt. I of this work does not contain arctic material.

**Copy seen:** MH-Z.

**23922. LINGONBLAD, BIRGER.** Iakttagelser över finska Lepidoptera, III. Muonio, Enontekiö (Lkem., Le.). [(Notulae entomologicae, 1944. v. 24, no. 1-2, p. 44-64; 1944, pub. 1945, no. 3-4, p. 65-71, illus., plates 1-4) **Title tr.:** Observations on Finnish Lepidoptera, III. Muonio, Enontekiö (Lapponia Kemensis et Enontekiensis).

**Contains** the result of the study of the lepidopterous fauna of the Muonio region in Kemi Lappmark, and the Enontekiö region, Enontekis Lappmark, carried out in the summers of 1938, 1939 and 1942. Brief notes are given on the physical geography of regions explored and a list of about 180 forms of lepidoptera. Critical notes and descriptions of new aberrations are included. The latter are also described in German in a supplement (Abhang), including *Brenthis frigga* subsp. *lapponica* n. sp. and 12 new aberrations. For earlier parts of this work see the item above.

**Copy seen:** MH-Z.

**23923. LINGONBLAD, BIRGER.** Eine neue *Agrotis*-Art von der Kola-Halbinsel.

(Notulae entomologicae, 1933. v. 13, no. 3-4, p. 87-89, illus.) **Title tr.:** A new species of *Agrotis* from Kola Peninsula.

**Contains** a diagnosis of a new lepidopter, *Agrotis imandrensis* n. sp., described from a single specimen in the Entomological Museum of Helsinki University, collected by J. Sahlberg near Lake Imandra in Kola Peninsula in 1870.

**Copy seen:** DLC; MH-Z.

**23924. LINGONBLAD, BIRGER.** Neue Schmetterlingsformen. (Notulae entomologicae, 1949, pub. 1950. v. 29, no. 3-4, p. 79-82, plate). **Title tr.:** New forms of butterflies.

**Contains** diagnoses of *Erebia ligea* ssp. *petsamoensis* and *Coenonympha tullia* ssp. *muoniensis* n. ssp. from Petsamo and Muonio regions of Finnish Lapland, and *Pieris napi adalwinda* ab. *obscura* n. ab. found in Kilpisjärvi, Enontekis Lappmark.

**Copy seen:** DLC; MH-Z.

**23925. LINGONBLAD, BIRGER.** Tre för vetenskapen nya Lepidoptera-former. (Notulae entomologicae, 1944. v. 24, no. 3-4, p. 71-75, illus.) **Title tr.:** Three Lepidoptera forms new to science.

**Contains** Swedish and German descriptions of three new lepidoptera, including *Pamphila palaemon borealis*, n. spp. native to the Kuusamo region and Swedish Lapland and *Cidaria subhastata fasciata* n. ab. from Paanajärvi.

**Copy seen:** DLC; MH-Z.

**23926. LINKO, ALEKSANDR KEL'SIEVICH, d. 1912.** Nabljudenija nad meduzami Bifelago moria. (Raboty, proizvedennyya v laboratorii zootomicheskogo kabineta imperatorskago SPB. universiteta no. 10, pub. as: Leningradskoe obschestvo estestvoispytatelej. Trudy, 1900. Otdelenie zoologii i fiziologii. t. 29, no. 4, p. 137-56, plate) **Title tr.:** Observations of White Sea medusae.

**Description** of 6 species taken by the author in Solovetskiye Islands. List of 20 additional species reported from the Solovetsk biological stations during 1892-98. Summary in French.

**Copy seen:** DLC.

**23927. LINKOLA, KAARLO, 1888-1942.** Alfred Oswald Kairamo. (Suomalainen tiedeakatemia, Helsingfors. (Academia scientiarum fennica). Sitzungsberichte, 1939, pub. 1943, p. 70-79)

**Contains** an obituary and appreciation of Kairamo (born Kihlman), 1858-1938.

Includes notes on his life, training, research in botany, especially forest ecology in Lapland, contributions to forest economy, political activities, work on tree acclimatization. *Copy seen:* DLC.

**23928. LINKOLA, KAARLO, 1888-1942.** Die Kartierung der Flora und Vegetation Finnlands. (Suomalainen tiedeakatemia, Helsingfors. Sitzungsberichte, 1938, pub. 1941, p. 72-89, maps) *Title tr.:* The mapping of the flora and vegetation of Finland.

Presentation of the various methods used in the preparation of floristic and vegetation maps of Finland, including northern areas. Remarks on similar work in other countries, and discussion of role of aerial photography in such mapping. *Copy seen:* DLC.

**23929. LINKOLA, KAARLO, 1888-1942.** Suunnitelma luonnonsuojelualueiden erottamiseksi Pohjois-Suomen valtionmailla. Helsinki, 1926. 57 p., 32 illus. on 9 plates, map. (Silva fennica: 1) *Title tr.:* Suggestions for the division of state-owned lands as nature-protection areas in northern Finland.

Contains data on the flora, fauna, and geology of the eight natural divisions (shown on map) and suggested measures for protection of flora and fauna. The role of the larger carnivorous animals in the forest is described. The organization of the areas as natural preserves is presented with consideration of their respective local factors: reindeer grazing, hunting, fishing, farming and logging, etc. Summary in German. *Copy seen:* DLC.

**23930. LINKOLA, KAARLO, 1888-1942.** Zur Kenntnis der Verteilung der Landwirtschaftlichen Siedlungen auf die Böden verschiedener Waldtypen in Finnland. Helsinki, 1922. 67 p., tables. (Acta forestalia fennica, 22:3) *Title tr.:* On the distribution of agricultural settlements on the soils of various forest-types in Finland.

Contains (in pt. A, p. 1-27) studies on the relation between the kind of agriculture and the soil of diverse forest-types in the region of Orimattila-Sysmä-Otava. Pt. B (p. 27-66) is an analysis of Finland's phytogeographic-agricultural areas (including the northern districts: Peräpohjola, Kuusamo, southern and northern Lapland), based on the types of forests and floristic considerations. *Copy seen:* DLC.

**23931. \*LINNANIEMI, WALTER MIKAEEL, 1876-** Beitrag zur Kenntnis der Collembolenfauna Spitzbergens. (Suomen hyönteistieteellinen aikakauskirja, 1935. 1:4, p. 137-41) *Title tr.:* Contribution to the knowledge of the Collembola fauna of Spitsbergen.

On the basis of a collection made by Prof. Richard Ebner in Aug. 1933, 13 species of springtails belonging to four families, are described, including one species new to Spitsbergen and three new varieties of which two were not previously described. Bibliography (10 items). *Copy seen:* DLC.

**23932. LINNAVUORI, RAUNO.** Tutkimuksia Suomen vesilude-eläimistöä. (Suomen hyönteistieteellinen aikakauskirja, 1950. 16, no. 2, p. 63-71, illus., sketch map) *Title tr.:* Investigations on the Finnish water-bug fauna.

On the basis of his own, also the Zoological Museum of Turku University's collection of water-bugs, author corrects several previous determinations of specimens, identifying one as *Sigara distincta* new to Finland; discusses distribution of *Callicorizia* species, including *C. wollastoni* in northern Finland, *C. producta* in the fell areas of Lapland, arctic and White Sea coasts and Russian Lapland, *Glaenocoris propinqua* on these coasts and inland (as indicated on sketch map). *Copy seen:* DLC.

**23933. LINSKAIA-VAL'ROND, N. A.** Materialy k étnografii gol'dov. (Sibirskaiâ zhivaiâ starina, 1925, vyp. 3-4, p. 145-60) *Title tr.:* Materials on ethnography of the Golds.

Contains material collected in 1917-18 in the basin of the Tunguska River (left tributary of Amur in the Khabarovsk area) on the sexual life of the native women, beliefs and customs concerning menses, pregnancy and childbirth. *Copy seen:* DSI.

**23934. LINSTOW, OTTO FRIEDRICH BERNHARD von, 1842-1916.** Entozoa des Zoologischen Museums der Kaiserlichen Akademie der Wissenschaften zu St. Petersburg, I. (Akademiiâ nauk SSSR. Izvestiâ, 1901. Ser. 5, t. 15, no. 3, p. 271-92, plates 1-2) *Title tr.:* Entozoa of the Zoological Museum of the Imperial Academy of Sciences at St. Petersburg, pt. I.

\*Previously known as W. M. Axelson, q. v., also *Arctic Bibliography*, No. 828.

*Contains a systematic list of about 100 entozoans, parasitic in mammals, birds and fishes, based on the collections from various regions, including those brought home by Russian Spitsbergen expedition of 1900, and by the Scientific-Economic Expedition to the Murman (Barents) Sea, 1898-1900. Diagnoses are given of 14 new species and many representatives of arctic fauna (Greenland, Barents, White Seas and Svalbard waters). For continuation see the author's Entozoa . . . II, 1903.* **Copy seen:** MH.

**23935. LINSTOW, OTTO FRIEDRICH BERNHARD von, 1842-1916.** Entozoa des Zoologischen Museums der Kaiserlichen Akademie der Wissenschaften zu St. Petersburg, II. (Akademii nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1903. t. 8, no. 3-4, p. 265-94, plates 17-19) **Title tr.:** Entozoa of the Zoological Museum of the Imperial Academy of Sciences at St. Petersburg, pt. II.

*Contains a systematic list of almost 150 entozoans or internal parasites of mammals, fishes, birds, etc., belonging to the Museum's collections, with descriptions of 14 new species, synonymy, critical notes and data on hosts and distribution; Includes some species native to the arctic regions of European and Asiatic Russia. Criticism and corrections were published by N. N. Kostylev in Notes regarding v. Linstow's paper, 1926, q. v.* **Copy seen:** MH-Z.

**23936. LINSTOW, OTTO FRIEDRICH BERNHARD von, 1842-1916.** Helminthen aus Ceylon und aus arktischen Breiten. (Zeitschrift für wissenschaftliche Zoologie, 1905. Bd. 82, p. 182-93, double plate) **Title tr.:** Parasitic worms from Ceylon and arctic latitudes.

*One of the ascarid worms herein described, Ascaris oculata Rud., came from the bearded seal, Phoca barbata, which occurs in arctic seas.* **Copy seen:** DLC.

**23937. LIPETS, R. S.** Byliny u promyslovogo naseleniia russkogo Severa XIX-nachala XX veka. (Akademii nauk SSSR. Institut étnografii. Trudy, 1951. Novaiia seriia, t. 13, p. 153-210) **Title tr.:** Epic poetry of the hunting population of the Russian North in the 19th and the beginning of 20th century.

*Contains a study of the byliny, i. e. folk tales and lore in verse, of the Russian settlers in the North. Following a dis-*

*cussion of the effects of the changed natural environment, new occupation, social conditions, etc., upon these traditional tales, the byliny are analyzed from the point of view of their mirroring the nature of the Arctic, showing something of navigation, hunting and fishing, farming and other occupations, women's work, building, tools and clothing, the ancient Russian town, etc. Bibliographical footnotes. Appended (p. 211-40) are texts of five of these byliny.* **Copy seen:** DLC.

**23938. LIPSHITS, B. A.** Étnograficheskie materialy po Severo-Zapadnoi Amerike v arkhive I. G. Voznesenskogo. (Vsesoiuznoe geograficheskoe obshchestvo. Izvestiia, 1950. t. 82, no. 4, p. 415-20) **Title tr.:** Ethnographical materials on northwestern America from the archives of I. V. Voznesenskii.

*The article describes the activities of Voznesenskii in Kamchatka, Alaska and adjacent regions (1839-49) in the fields of zoology, botany and ethnology; his diaries and manuscripts, ethnographical and geographical notes, and collection of ethnological specimens. Bibliographical footnotes.* **Copy seen:** DLC.

**23939. LIPSHITS, SERGEI IUL'EVICH, 1905-** K poznaniu flory i rastitel'nosti gor'achikh istochnikov Kamchatki. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1936. Otdel. biol. Novaiia seriia, t. 45, vyp. 2, p. 143-58, illus.) **Title tr.:** Contribution to the knowledge of the flora and vegetation of the hot springs of Kamchatka.

*Contains the results of the author's observations in 1935, on the peculiar flora and vegetation of the thermal springs of Kamchatka Peninsula, with a table of 38 species of flowering plants and vascular cryptogams growing around twelve springs and data on their total distribution; descriptive notes on some endemic plants, including Triglochin komarovii n. sp., data on thermophile plant associations, their peculiarities and elements. Summary in French.* **Copy seen:** DLC; MH-Z.

**23940. LIPSKAIA, N. A.** Kratki predvaritel'nyi otechet o komandirovke dlia étnograficheskogo izucheniia nanaev (gol'dov). (Sovetskaiia étnografiia. Sbornik :atel', 1940. t. 3, p. 250-56) **Title tr.:** A short preliminary report

on a mission for ethnographical study of the Golds.

*Contains* account of an expedition in 1936-37, organized by the Institute of Ethnography, Academy of Sciences, U.S.S.R., to the regions of Kur-Urmalsk, Nanalsk and Komsomol'sk. Anthropometric measurements and photographs were made of 659 Golds (also a few Tungus and Yakuts); 4000 pages of texts written down (including 800 pages of folklore), an ethnographical collection of about 600 objects brought home, etc. The report gives extensive notes on the names given to tribes by themselves and their neighbors; on settlement and demography, family organization, occupations and skills, traces of matriarchy, group marriage, system of relationship, patriarchal community, folklore and language.

*Copied seen:* DLC.

**23941. LIRO, J. I.** Neue Eriophyiden aus Finland. Helsinki, 1940. 67 p., illus. (Suomalainen eläin-ja kasvitieteellinen seura Vanamo. Eläintieteellisiä julkaisuja. Annales zoologici, 8:1) *Title tr.:* New Eriophyids from Finland.

Description of 23 species of plant-mites, most of them new and largely from Lapland. Their distribution and the plants they live on are listed, the latter in most cases illustrated. Bibliography (over 160 items).

*Copied seen:* DLC.

**23942. LIRO, J. I.** Über neue oder sonst bemerkenswerte finnische Eriophyiden (Acarina). Helsinki, 1943. 50 p. figs. (Suomalainen eläin-ja kasvitieteellinen seura Vanamo. Eläintieteellisiä julkaisuja. Annales zoologici, v. 9, no. 3) *Title tr.:* On new or otherwise noteworthy Finnish eriophyids (Acarina).

*Contains* account with descriptions of 26 new species of eriophyids, mites living on plants. Among them *Rhinophytoptus concinnus* is most interesting as it forms a new genus. The 26 new species live on 27 plants. In addition, 10 other species, known from elsewhere, are first described for Finland, bringing the total of eriophyids known from that country to 178. Bibliography (46 items).

*Copied seen:* DLC.

**23943. LISER, I. I.** O nablūdeniakh nad temperaturoi vody rek. (Meteorologiya i gidrologiya, Oct. 1950. no. 2, p. 57, table) *Title tr.:* On the observations of the temperature of river water.

"Some critical remarks on the observations of temperature régime of rivers. The best results are obtained from observations at distances of 100-200 m. from the river bank with thermometers placed at depths as low as 1-2 m. The experimental observations on the Yenisey River during the period of 1949 showed a difference of 3° C. between the temperature near the bank and that at a distance of 200 m. from the bank."—*Meteorological abstracts and bibliography*, Sept. 1952. v. 3, no. 9, p. 923.

*Copied seen:* DLC.

**23944. LISOVSKIĬ, KAZIMIR.** Bereg Nikifora Begicheva. (Vokrug sveta, Dec. 1952, p. 52-55, illus., map) *Title tr.:* The beach of Nikofor Begichev.

*Contains* sketch of a midsummer trip by steamboat on the Pyasina River (70°-74° N. 87°-88° E.) with account of a Nganasan (Samoyed) fishing kolkhoz: its members, school, etc.; Pyasinskiy Bay, an arm of the Kara Sea; Begichev Beach; remnants of Begichev's house; his grave; his exploits, etc. Begichev, a native guide and traveler of this area, organized and headed rescue operations for the survivors of the *Taimyr* and *Valgach* (1914-15).

*Copied seen:* DLC.

**23945. LISOVSKIĬ, KAZIMIR.** Sledopyt severa Nikifor Begichev. (Sibirskie ogni, Mar.-Apr. 1952. god 31, no. 2, p. 144-53) *Title tr.:* Nikifor Begichev, pathfinder of the North.

*Contains* a story written on the occasion of the 25th anniversary of the death of Nikifor Alekseevich Begichev, 1874-1927, traveler, guide and explorer of Taimyr rivers. Includes biographical data: his participation in the Toll Expedition (in 1902) and in the search for Toll seven years later; his lot during the Russo-Japanese war; as hunter and leader in Taimyr; prospector and surveyor; his supply and relief work to the ice-breakers *Taimyr* and *Valgach* (1915) of the Vil'kiiskii Expedition; his activities as organizer of hunting and sealing cooperatives, etc.

*Copied seen:* DLC.

**23946. LISOVSKIĬ, KAZIMIR.** V kraĭ Evenskom. (Ogonĕk, Nov. 1952. v. 30, no. 47, p. 9-10, illus.) *Title tr.:* In Evenki Land.

*Contains* account of a trip with caravan of river boats up the Nizhnyaya Tunguska to a trading post and two Tungus kolkhoses, one raising arctic foxes, the other

reindeer. The homes, schools, library, as well as cultural and health work among the Tungus (Evenki) are described as well as the life and activities of three Russian girls working among them in teaching, nursing and propaganda.

**Copy seen:** DLC.

**23947. LIST, CARL F.** Physiology of sweating. (Annual review of physiology, 1948. v. 10, p. 387-400)

Characterizing the general trends of the study of sweating noticeable in the last few years, the author reviews and summarizes the pertinent work under the following heads: sweating and thermoregulation; rate of sweating; chemistry of sweating. Sweating in arctic conditions (clothing) is also discussed. Bibliography (64 items).

**Copy seen:** NNN.

**23948. LITTELL, EMLEN T.** Frostbite. (Scientific American, Feb. 1952. v. 186, no. 2, p. 52-54, 56, illus.)

Contains information on frostbite during wars; the physiological response of our body to cold; the symptoms, physiology and pathology of frostbite at its various stages; therapy.

**Copy seen:** DLC.

**23949. LITTLEWOOD, C. A.** Gravity measurements on the Barnes Icecap, Baffin Island. (Arctic, July 1952. v. 5, p. 118-24 incl. tables, map, diagrs.)

"A survey was made [during the Baffin Island Expedition of the Arctic Institute of North America, 1950] of the southeastern lobe of the Barnes Icecap to determine ice thickness and topographical features of the underlying rock surface by means of the gravimeter method. Gravity was measured at stations along 7 traverses (45 mi.) with a Worden gravimeter no. 44 equipped with a high range reset mechanism and controlled by a dial calibrated in gravity units. The methods of calculation and the sources of errors are indicated. The measured surface elevations and the computed rock elevations and ice thicknesses for the traverses are shown diagrammatically, and tables present the principal facts for gravity stations. The greatest ice thickness indicated by the results is 1,533 ft. The greatest slope occurs where the rock elevation changes about 60 ft. in 0.75 mi. The floor of the icecap near the middle of the lobe averages about 100 ft. lower than near the margin."—SIPRE.

**Copy seen:** CaMAI; DLC.

**23950. LITVINOV, DMITRIĬ IVANO-VICH, 1854-1929.** Geo-botanicheskiĭ zamĕki o florĕ Evropeiskoi Rossii. (Moskovskoe obshchestvo ispytatelei prirody. Bŭlleten', 1890, pub. 1891, Novaiā seriā, t. 4, no. 3, p. 322-434) **Title tr.:** Geobotanical notes on the flora of European Russia.

Contains a geobotanical study of pine forests and groves in the mountains of European Russia, with a discussion of the influence of the glaciation and geological factors on the development of the flora. A list is given of 95 rare or sparsely distributed plants growing in the region of mountainous forests, with tabulated data on their distribution in twelve geobotanical regions, including the Northern Urals and arctic Russia; also another list of 127 plants typical for chernozem soils.

**Copy seen:** DLC; MH-A.

**23951. LITVINOV, DMITRIĬ IVANO-VICH, 1854-1929.** Kovyli, smeshivayemye pod nazvaniem *Stipa sibirica* (L.) Lam. (Akademiā nauk SSSR. Izvestiā. Seriā 7, otdelenie fiziko-matematicheskikh nauk, 1928, no. 1, p. 49-64, illus.) **Title tr.:** Species of *Stipa* confused under the name of *S. sibirica*.

Contains a critical revision of a collective species of feathergrasses, *Stipa sibirica*, including Latin diagnoses of *S. sibirica* (Tobolsk) and *S. confusa* n. sp. native to Tobolsk and Yakutsk regions. Summary in French.

**Copy seen:** MH-A.

**23952. LITVINOV, DMITRIĬ IVANO-VICH, 1854-1929.** O ūzhnykh zanosnykh rasteniākh na severnykh stantsiākh Murmanskoi zheleznoi dorogi. (Akademiā nauk SSSR. Izvestiā, 1926. Seriā VI, t. 20, no. 1-2, p. 59-66) **Title tr.:** Adventive plants of the South around northern stations of the Murmansk railroad.

Contains the results of the author's observations (1920, 1921, 1925) on the occurrence of some southern plants, mostly weeds of cereals, along the Murmansk railway on Kola Peninsula, introduced apparently with the seeds of cereals; 44 southern adventive plants are listed with data on their origin, habitat and local distribution.

**Copy seen:** DLC; MH.

**23953. LITZENBERGER, S. C., and B. M. BENSIN.** Edda barley for Alaska. Palmer, Alaska, April 1951.

10 p. illus., tables (Alaska. Agricultural Experiment Station. Circular no. 16) published in cooperation with U. S. Dept. of Agriculture, Agricultural Research Administration)

Contains a report on a new variety of barley introduced from Sweden and submitted to trials in Alaska since 1946. Data are offered on its origin and characteristics, location and details of experiments; its agronomic performance, malting quality and feeding value. The new barley was found to be at least equal in feeding value to similar varieties grown in Alaska and because of other qualities is expected to gain an important place in the Territory.

**Copy seen:** CaMAI.

**23954. LITZENBERGER, S. C., and B. M. BENSIN.** Golden Rain oats for Alaska. Palmer, Alaska, April 1951. 9 p. illus., tables (Alaska. Agricultural Experiment Station. Circular no. 15) published in cooperation with U. S. Dept. of Agriculture, Agricultural Research Administration.

Contains a report on experimental planting of this variety in the main oat-producing areas of Alaska. Includes data on the origin and characteristics of this variety; location and description of experiments; agricultural performance, milling and feeding value. Though intended primarily for grain, Golden Rain may be also grown for hay and silage.

**Copy seen:** CaMAI.

**23955. LITZENBERGER, S. C., and others.** Recommended varieties of farm crops for Alaska. Palmer, Alaska, 1950. 6 p. (Alaska. Agricultural Experiment station, Circular no. 11) *Other authors:* H. J. Hodgson and B. M. Bensin.

Contains a list and description of field crops which were found most desirable for the Territory on the basis of many years' trials conducted by the Alaska Experiment Station. The recommended varieties include: oats, barley, wheat; forage legumes (alfalfa, clovers, field peas, etc.); perennial grasses.

**Copy seen:** DA.

**23956. LIŪTKEVICH, E. M.** Occurrence of upper Permian pelecypods in western Taimyr. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1941. nouv. ser., v. 31, no. 4, p. 366-69, illus.)

"Lists the members of the Taimyr upper Permian pelecypod fauna and notes their paleogeographic significance. Evidently while European Russia was

emerging gradually from the Permian seas, geosynclines were filling with thick sediments in Siberia."—Geological Society of America, *Bibliography and index of geology*, 1941-42. v. 9, p. 182.

**Copy seen:** DLC.

**LIVEROVSKIĬ, IŪRIĬ ALEKSEEVICH, 1905-**, see Kushev, S. L., & IŪ. A. Liverovskiĭ. Principal points physico-geog. Quaternary. 1938. No. 23552.

**LJUNGDAHL, DAVID**, see Bryk, F., & F. Nordström. Bibliographische . . . Zusätze zu Svenska fjärrilar. 1948. No. 20989.

**LJUNGDAHL, DAVID**, see also Nordström, F., & E. O. Wahlgren. Svenska fjärrilar. 1935-41. No. 24722.

**23957. LJUNGNER, ERIK.** Deformationen der Grundgebirgsoberfläche unter dem kaledonischen Gebirgsrand in Lappland. (Geologische Rundschau, 1943. Bd. 34, p. 186-96, diagrs.) *Title tr.:* Deformations of surface primitive rocks under the Kaledonian mountain border in Lapland.

The area here discussed lies near the Arctic Circle between 17°-17°30' E. in Swedish Lapland, where the end erosional peneplain of granitic primitive rock is overlain by a layer of uppermost Precambrian ("Eocambrian") and a layer of Cambro-Silurian. The series is described, also the Kaledonian and Precambrian deformations and nature of tectonic movements. Bibliography (23 items).

**Copy seen:** DLC.

**23958. LLANO, GEORGE ALBERT, 1911-**. A contribution to the lichen flora of Alaska. (Washington Academy of Sciences. Journal, June 1951. v. 41, p. 196-200)

Descriptions and distribution of three new species, two new varieties, one new form, and one new combination, also proposal of two new names for lichens from localities at 68°20' N. 151°-152° W. and 69°20' N. 145° W. Result of field work sponsored by the Arctic Institute of North America and carried out in 1948 by P. F. Scholander (to whose unpublished report, *Studies on the lichen flora of Alaska Llano had access*) and in 1949 by the author himself.

**Copy seen:** DGS; DSI-M.

**23959. LLANO, GEORGE ALBERT, 1911-**. Economic uses of lichens. (*In:* Smithsonian Institution, Annual report

for 1950, pub. 1951. p. 385-422, 8 plates, table)

Contains sections on the biology of lichens; their use as food for invertebrates, as fodder, as eaten by man (including nutritional studies); medicines and poisons derived from lichens; their industrial uses; cosmetics and perfumes made from lichens; dyeing instructions for their home use. Bibliography (23 items).

**Copy seen:** DLC.

**23960. LLANO, GEORGE ALBERT, 1911-** . A monograph of the lichen family Umbilicariaceae in the western hemisphere. Washington, Office of Naval Research, Dept. of the Navy, 1950. vi, 281 p., incl. 27 plates, illus. (Navexos P-831)

Description of gross morphology, anatomical structure, apothecial structure, and spore measurements for 43 species of lichens, arranged according to P. F. Scholander's classification; and analysis of the geographic distribution of this family for the entire Western Hemisphere including the Arctic and Antarctic. Bibliography (81 items).

**Copy seen:** DAI; DSI-M.

**23961. LLOYD, TREVOR, 1906-** . Beyond the sunset. 1952. 5 l. typescript (in English) of article published in Greenlandic and Danish in *Grønlandsposten*, Godthaab, Greenland, May 1952.

Author (who was Canadian consul in Greenland during World War II and is now professor of Geography at Dartmouth College) mentions cultural and other exchanges between residents of Canada and Greenland in the past, and outlines mutually beneficial cooperative activities possible between the two countries in the future, particularly exchange of weather information, scientific personnel and pooling of experience in dealing with common problems of health, education, etc., in the North.

**Copy seen:** NhD.

**23962. LLOYD, TREVOR, 1906-** . The Northern Sea Route. (Russian review, Apr. 1950. v. 9, p. 98-111, map)

Survey (in brief) of pre-Soviet development, and (in more detail) of Soviet work from 1919, noting exploration, polar stations, aids to navigation, and ice-breakers for the Northern Sea Route; with a bibliography (11 items). **Copy seen:** DLC.

\* **23963. LLOYD, TREVOR, 1906-** . Progress in West Greenland. (Journal of

geography, Nov. 1950. v. 49, p. 319-29, illus., map)

Summary of physical and human geography in southwestern Greenland from Upernavik (73° N.) to Cape Farewell (60° N.) the region in which "modernization of Greenland has taken place and . . . plans for speeding up this development are being concentrated." Noting briefly the surface features and minerals, climate and transportation, the author discusses the native population, trade and administration, cultural affairs and changes since World War II, from the viewpoint that "the Danish government of Greenland has long been a model of disinterested colonial administration."

**Copy seen:** DLC.

**23964. LLOYD, TREVOR, 1906-** . Some recent developments in arctic research. Hanover, N. H., Dept. of Geography, Dartmouth College, 1952. 9 p. Process print.

Contains introductory remarks made at the New Hampshire Academy of Science annual meeting, April 1952, concerning arctic activities in the past decade, viz: research on the Greenland icecap; the U. S. Naval Research center at Point Barrow, Alaska and its activities; the preparation of an Arctic Encyclopedia; the work of the Arctic Institute of North America, etc. Bibliographical footnotes.

**Copy seen:** CaMAL.

**LLOYD, TREVOR, 1906-** , see also Bugge, A. Native Greenlanders. 1952. No. 21014.

**LLOYD, TREVOR, 1906-** , see also Christensen, N. O., & T. Lloyd. Elections in Greenland. 1951. No. 21207.

**23965. LLOYD-OWEN, FRANCES.** Gold Nugget Charlie; a narrative compiled from the notes of Charles E. Masson. London [etc.] G. G. Harrap & Co., Ltd. [1939]. 259 [1] p., front., plates, ports., maps on lining-papers.

Masson's travels and adventures in Alaska (whither he went as a lad of 18 in 1880) and in the Yukon gold fields.

**Copy seen:** DLC.

**23966. LOBODANOV, N. S., and N. I. KVACHADZE.** Zimnii strug dlia avto-lezhnevoi dorogi. (Lesnafa promyshlennost', Dec. 1952. v. 12, no. 12, p. 18-19, diagr.) **Title tr.:** A winter scraper for auto log-roads.

Contains a description of a plane or

scraper drawn by a tractor and used for levelling the ruts or wheel guides and removing the snow from log roads. It consists essentially of a rectangular wooden structure with two inclined "knives" forming a wedge, in front. Two persons operate the scraper in addition to the tractor crew. **Copy seen:** DLC.

**23967. LOBZA, P. G.** Sravnitel'nye rezul'taty opredeleniia shchelochnosti morskoi vody raznymi metodami. (Problemy Arktiki, 1944, pub. 1945, no. 2, p. 94-99, tables) **Title tr.:** Comparative results of determinations of alkalinity of sea water according to various methods.

Emphasizing the importance of a precise estimate of alkalinity of arctic waters, the author discusses the method proposed by Prof. S. V. Bruevich and recommends it as the most convenient and reliable under the working conditions of arctic expeditions and stations.

**Copy seen:** DGS.

**LOCKER, BETTY**, see Rausch, R. L., & B. Locker. Studies helminth fauna Alaska II. On some helminths parasitic in sea otter. 1951. No. 25397.

**LOCKHEAD, A. G.**, see Landerkin, G. B., & others. Study antibiotic activity actinomycetes. 1950. No. 23628.

**23968. LOEBLICH, HELEN NINA (TAPPAN), 1917-** Northern Alaska index Foraminifera. (Cushman Foundation for Foraminiferal Research. Contributions, Mar. 1951. v. 2, pt. 1, p. 1-8, plate)

Seventeen index species are named and described "in order to validate the ten new specific names for use in advance of publication of the comprehensive faunal descriptions", being prepared from material found by U. S. Geological Survey investigations in U. S. Naval Petroleum Reserve no. 4. **Copy seen:** DSI-M.

**23969. LÖFQUIST, BERTIL.** Lifting force and bearing capacity of an ice sheet. Lyftkraft och bärförmåga hos ett istäcke. (Teknisk tidskrift, <74:761-[768] incl. illus., tables, graphs> Stockholm, 1944). Translated by H. A. G. Nathan. Ottawa, 1951. 27 p., illus., tables, graphs. (National Research Council of Canada. Technical translation TT164)

"Observations in Northern Sweden show the destructive effects of an ice sheet on construction. The lifting force and the bending strength of ice on a long straight wall are derived assuming a linear

temperature distribution, the coefficient of plasticity of ice, and a slowly rising water level. Ice deformations observed between level surveys agree well with those calculated for beams on elastic supports. An expression for the maximum lifting force is obtained as a function of the bending strength of ice. It is found to be largely independent of the modulus of elasticity of ice and its coefficient of plasticity. The lifting force is calculated for isolated cylindrical objects by introducing a low value for the modulus of elasticity. Calculations of the bearing capacity of ice are made for loads applied on a straight line and for loads spread over a circular area with a diameter equal to the thickness of the ice."—SIPRE. **Copy seen:** CaMAI (English translation); DLC (Swedish original).

**LÖFQVIST, E.**, see LANKIALA, EERO.

**LÖNNBERG, AXEL JOHAN EINAR**, see LÖNNBERG, EINAR, 1865-1942.

**23970. LÖNNBERG, EINAR, 1865-1942.** Cetological notes. (Arkiv för zoologi, 1924. Bd. 15, no. 24, p. 1-18)

Contains a morphological study of cetaceans based on the study of the skeleton of an adult narwhale (right whale), *Eubalaena glacialis*, native to arctic waters (killed near Iceland), with conclusion that the right whales are pentadactylous; also a study of skeletal differences between *Eubalaena glacialis* and *E. australis*.

**Copy seen:** DSI-M; MH-Z.

**23971. LÖNNBERG, EINAR, 1865-1942.** *Lampris pelagicus* (Gunnerus) found at the Murman coast, an addition to the Russian fauna. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1900. t. 5, no. 1-2, p. 242-43)

Contains a report of a benthopelagic fish, *Lampris pelagicus*, caught at Ozerki on the Murman coast, a first find of this fish in Russian waters, according to the author; for additional information, see Knipovich, N., *Einige Worte*, etc., 1900.

**Copy seen:** DLC; MH-Z.

**23972. LÖNNBERG, EINAR, 1865-1942.** Ein neuer Bandwurm (*Monorygma Chlamydoselachi*, n. sp.) aus *Chlamydoselachus anguineus*, Garman. (Archiv für mathematik og videnskab, 1898. Bd. 20, no. 2, p. 1-11, illus.) **Title tr.:** A new tapeworm (*Monorygma Chlamydoselachi*,

n. sp.) from *Chlamydoselachus anguineus* Garman.

Contains a diagnosis of a new tapeworm inhabiting the intestine of a fish, *Chlamydoselachus anguineus*, captured in Varangerfiord. **Copy seen:** MH-Z.

**23973. LÖNNROT, ELIAS.** Ueber den Enare-Lappischen Dialekt. (Finska vetenskaps-societeten, Helsingfors. Acta Societatis scientiarum fennicae, 1856. v. 4, p. 133-44) **Title tr.:** On the Inari-Lappish dialect.

Contains notes on pronunciation, vowels, consonants, accent, and conjugation of some verbs; with comparative examples of nominal and verbal forms of the Finnish, Estonian, Chudic and Lappish languages; reading exercises, dictionary and translations. **Copy seen:** DLC.

**23974. LÖNNROTH, A. J.** Valtion rautatierakennustöitä ruotsissa kesällä v. 1911. (Teknillinen aikakauslehti, 1912. v. 2, no. 12, p. 227-35, illus., diagrs.) **Title tr.:** Government railroad construction in Sweden during the summer of 1911.

Contains an account of the construction of two railroads, one from Östersund to Ulriksfors and another from Järna to Enstaberga, with data on measures taken against frost heave damage.

**Copy seen:** DLC.

**23975. LØVENSKIOLD, HERMAN L.** Den geografiske variasjon hos fjaereplytten (*Calidris maritima* (Brünn.)). (Dansk ornithologisk forening. Tidsskrift, 1950. Arg. 44, hefte 3, p. 161-67, diagrs.) **Title tr.:** The geographical variation of the purple sandpiper (*Calidris maritima* (Brünn.)).

Contains results of a comparative study of the purple sandpiper collected by the author on Spitsbergen in 1948-49, and specimens from other arctic regions (northern Norway, East and West Greenland), with measurements of wing, tail, bill and tarsus (see table 1 and diagrams). A new subspecies from Greenland is described as *Calidris maritima groenlandica* subsp. nov. Summary in English. **Copy seen:** MH-Z.

**23976. LÖW, HERMANN, 1807-1879.** Die nordamerikanischen Arten der Gattungen *Tetanocera* und *Sepedon*. (Wiener entomologische Monatschrift, 1859. Bd. 3, no. 10, p. 289-300) **Title tr.:** North American species of the genera *Tetanocera* and *Sepedon*.

Contains a critical revision of six North American species of dipterous genus *Tetanocera* (four are new) and three new species of the genus *Sepedon*, including *T. plumosa*, native to Sitka i. e. Baranof Island. **Copy seen:** MH-Z.

**23977. LOEWE, FRITZ.** The amount of rime and snowdrift as factors in the mass balance of glaciers. (International Geodetic and Geophysical Union. Association of Scientific Hydrology. Bulletin, 1936, pub. 1938. no. 23, p. 415-21)

"Rime has some importance on the mass balance of glaciers, but it is difficult to measure. The author discusses in detail the conditions in air and in the upper layers of snow cover which result in rime formation. Heavy deposits of rime will be found in those regions where strong, damp winds, blowing from the sea against a mountain barrier, rise and undergo adiabatic cooling. These effects were observed in the mountains of Norway, in the coastal ranges of Alaska and especially in southern Patagonia. Another region favorable for rime deposits is the higher part of tropical mountains, where the heavy firn cover of many very steep mountain walls is usually formed by rime and not by falling snow. This type of deposit was found on the higher ridges of Kanchenjunga but not in the Alps. A review of the work done by many investigators on weather conditions (especially temperature and wind velocity) favorable for intensive rime formation is included."—*Meteorological abstracts and bibliography*, Oct. 1952. v. 3, no. 10, p. 1086. Bibliography (19 items). **Copy seen:** DGS; DWB.

**LOEWE, LEO, see also Lange, K., & others.** Functional pathology frostbite & prevention gangrene. 1945. No. 23646.

**LOEWE, LEO, see also Lange, K., & L. Loewe.** Subcutaneous heparin Pitkin menstrium frostbite. 1946. No. 23648.

**23978. LOGACHEV, P.** Opyt stroitel'stva riāzhevykh gavanей v Sibiri. (Lesnoe khozjaistvo. Oct. 1931. no. 10, p. 23-27, illus., diagrs.) **Title tr.:** An experiment in building crib harbors in Siberia.

Contains discussion of the necessity of crib harbors on the northern Soviet rivers, capable of holding hundreds of thousands of cubic meters of timber. An account is given with technical data, diagrams, etc., of such a harbor built as an experiment on the Tom River (55° N.

87° E.). The harbor was severely damaged by outgoing ice; the findings and recommendations of a commission, appointed to study the damage, are given.

**Copy seen:** DLC.

**23979. LOGAN, ROBERT A.** The precise speakers. (Beaver, June 1951. Outfit 282, no. 1, p. 40-43, illus.)

Popular account of the reduction of the Cree language to syllabic writing and print (illustrated) in the mid-19th century, with note of grammars, dictionaries, etc., produced by missionaries among these Indians of the Hudson-James Bay region.

**Copy seen:** DSI-M.

**23980. LOHAMMAR, GUNNAR.** *Juncus trifidus* på bergen vid Bottniska viken. (Svensk botanisk tidskrift, 1950. Bd. 44, häfte 1, p. 203-213, illus., text map) **Title tr.:** *Juncus trifidus* in the mountains at the Gulf of Bothnia.

Contains an illustrated description of this habitat of *Juncus trifidus*, and discussion of the distributional gap in the area of this rush, which is extending over the Arctic Circle. Summary in English. **Copy seen:** DSI-M; MH-A.

**23981. LOHAMMAR, GUNNAR.** Wasserchemie und höhere Vegetation schwedischer Seen. Uppsala, Lundequistka bokhandl., 1938. 253 p., illus., plates 1-40, fold. tables, 1-3. (Symbolae botanicae upsalienses, 1938-1939. v. 3, no. 1) **Title tr.:** Water chemistry and higher vegetation of Swedish lakes.

**Contents tr.:** I. Introduction; II. Methods, p. 13-37; III. Analyses and other data related to the explored lakes: (1) special part p. 40-162; (2) general part, p. 163-85; IV. Some observations on horizontal variations of water corpuscles, p. 186-95; V. Relationship between water chemistry and aquatic vegetation, p. 190-219; VI. Yearly variations of the content of vegetative compound, p. 220-35; VII. Some viewpoints concerning the problem of lake typology, p. 236-44; bibliography (123 items); index. The investigation is based partly on material from the lakes in Swedish Lapland; the folding tables contain data on distribution of 75 higher aquatic plants in the lakes explored.

**Copy seen:** MH-A.

**23982. LOMAKINA, N. B.** Novye, interesnye v zoogeograficheskom otnoshenii vidy kumovykh rakov v Dal'nevostochnykh moriakh. (Zoologicheskii zhurnal,

1952. t. 31, vyp. 2, p. 244-48, illus.) **Title tr.:** New and zoogeographically interesting Cumacea of the Far Eastern seas.

Contains a discussion of geographic distribution of small shrimplike crustaceans (Cumacea) and descriptions of *Leucon mediterraneus dentatus* n. subsp. and *Gaussicuma gurbanovae* n. sp., native to the Sea of Okhotsk.

**Copy seen:** MH-Z.

**23983. LOMEN, CARL JOYS, 1880- .** Reindeer can pack our larder full. (Forest and outdoors, 1946. v. 42, p. 165-66, illus.)

Author (for some years engaged in reindeer business in Alaska) notes conditions and factors necessary for developing reindeer herds as permanent livestock supply for northern Canada. He traces the introduction of reindeer into Alaska from Siberia (in 1892), growth of the herds, their commercial exploitation and later decline, due it is claimed to government interference. He recommends a series of measures to insure success of the industry in Canada, such as: incentives to herders and breeders; prevention of mixing of herds, care during fawning, introduction of new blood, shelter for personnel, preservation of grazing areas, etc. The reindeer census of Canada (summer 1944) showed 9000 (estimated) animals.

**Copy seen:** DA.

**23984. LOMEN, G. J.** Progress made with the reindeer. (American wildlife, July 1920. v. 9, no. 3, p. 2-4, illus.)

Paper presented at the Sixth National Game Conference, New York City, Mar. 1920. General facts on utility, habits, and development in Alaska of herds from imported stock; with many literary and ethnologic allusions to the reindeer of northern Europe and Asia.

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**23985. LOMONOSOV, MIKHAIL VASIL'EVICH, 1711-1765.** Kratкое opisanie raznykh putesthestvii po Sĭvernym moriām, i pokazanie vozmozhnago prokhoda Sibirskim okeanom v Vostochnuĭ Indii. 1934. **Title tr.:** Short description of various voyages in northern seas and evidence of a practicable route through Siberian Ocean to the East Indies.

Written as a confidential paper for the Russian government in 1763, published, with two supplements, in 1847 (2 l., 150 p., copy in Ct. Y) and 1854, and republished in Lomonosov's *Sochineniia* (t. 7, 1934, p. 279-388, col. fold. map, copy in

DLC), also with extensive notes, comments and bibliography in V. A. Perevalov, *Lomonosov i Arktika*, 1949, q. v. The paper advocates the search of an arctic sea route to India, and it was instrumental in launching two attempts: (1) the Northwestern Sea Route Expedition under V. Ī. Chichagov, 1765-66, and (2) the Aleutian Islands and Alaska Expedition under P. K. Krenitsyn, 1764-71.

Contains in chap. 1, a short description of voyages in search of a Northwest Passage to India by Cabot, Frobisher, Davis, Hudson, Baffin, Ellis, Munk, de Fonte, and others; Chap. 2 describes explorations for a Northeast Passage by Barendsz, Riip, Fedot Alekseev, Dezhnev, Gerasim Akundinov, the members of the Great Northern Expedition, explorations of Russian merchants and Cossacks, and the alleged voyage across the arctic sea by the Portuguese David Melguer in 1660. Chap. 3 gives oceanographic and geophysical theories concerning the aurora borealis, and ice of the arctic sea, with the first classification of marine ice into: pack ("melkoe salo"), icebergs ("paduny"), and icefields ("stamukhi" and "lediane polia"), also a tentative estimate of the total mass of ice in the arctic sea. On the basis of statements (mostly erroneous) that sea water cannot freeze into solid ice and that arctic sea ice (drifting chiefly from east to west) is formed in rivers or coastal waters (mainly Siberian) and that the ice fields are completely melted during summer, the author concludes that solid ice cannot cover the entire arctic sea, and that its parts, remote from Siberia, especially between the North Pole and America, are navigable in summer. These views are supported by analogies in the formation and distribution of land and water, enabling conjectures to be made as to the geophysical features of unknown arctic areas. Author proposes two arctic routes between Europe and Kamchatka. Chap. 4 concerns preparation for the expedition and choice of vessel, crew, equipment and instruments. Chap. 5 is a draft of instructions for the commander and discussion of other measures connected with the expedition.

Supplement 1 (dated Mar. 1764) is an analysis of seamen's information about Spitsbergen and Novaya Zemlya, with conclusion that Spitsbergen is preferable as the starting point for an expedition.

Supplement 2 (dated Apr. 1764) anal-

yses information from Kamchatka seamen (Stepan Glotov and others) about the Aleutian Islands in connection with a planned expedition, and warns of competition from other nations. Map (fold. col.) of the Arctic Basin, shows the (alleged) route of D. Melguer, and routes of planned expeditions in both directions.

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**23986. LOMONOSOV, MIKHAIL VASIL'EVICH, 1711-1765.** *Primernaia instruktsiia morskim komanduiushchim ofitseram otpravliaiushchimsia k poiskaniu puti na vostok Siveernym Sibirskim okeanom.* 1934. *Title tr.:* Exemplary instruction for ship commanders in search of a route to the East through the North Siberian Ocean.

Written in 1765, published in 1848 and republished in Lomonosov's *Sochineniia*, t. 7, 1934, p. 389-401, also with notes and comments, in V. A. Perevalov, *Lomonosov i Arktika*, 1949, q. v. Instructions for a Russian Northwestern Sea Route Expedition, advocated and planned by Lomonosov in his *Kratkoe opisaniie*, 1763, q. v., and realized in the expedition under V. Ī. Chichagov, 1765-66; suggests Spitsbergen as the starting point of the expedition, mentions signs of the sea useful to arctic navigators (interpretation of current, tide, salinity, temperature, depth, wind phenomena), and gives advice on choice of route and management of the expedition.

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**23987. LOMONOSOV, MIKHAIL VASIL'EVICH, 1711-1765.** *Sochineniia. S ob'iasnitelnymi primechaniiami M. I. Sukhomlinova.* Sanktpeterburg (Leningrad), Izd-vo Akademii nauk, 1891-1948. 8 v., plates, ports., fold. col. map. *Title tr.:* Works. With explanatory comments of M. I. Sukhomlinov.

Vol. 6, was edited by B. N. Menshutkin and G. M. Kniazev; v. 7 by B. N. Menshutkin; v. 8 by S. I. Vavilov. A complete collection of works of the famous Russian scientist, poet and statesman, including in v. 7 (p. 279-401, fold. map) his papers on the Northeast Passage: *Kratkoe opisaniie raznykh puteshestvii po Siveernym moriia*, etc., q. v., and *Primernaia instruktsiia morskim komanduiushchim ofitseram*, etc., q. v.

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**LONGWELL, BERNARD B.,** see Irwin, E., & others. Ascorbic acid content ad-

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renal glands rats after cold. 1950. No. 22840.

**23988. LONSHAKOV, M. A.** Unkhu, skazka. (Taiga i tundra, 1928. no. 1, p. 46-49) *Title tr.:* Unkhu, a tale.

Contains an Ostyak legend about Unkhu the forest spirit, and tells of an adventure which befell a man from Merkaly village on his journey to Aleshkino village. *Copy seen:* DSI.

**LOPATIN, I. A.,** see Toll, E. V. v. O rasprostraneni kembriskikh otlozhenii. 1815. No. 26758.

**23989. LOPATIN, IVAN A.** A shamanistic performance for a sick boy. (Anthropos, Ephemeris, 1946-49. Bd. 41-44, p. 365-68)

Contains account of a shamanistic performance (*kamlanie*) which the author witnessed while staying with an Orochi tribe in the village of Uska on the Tumnin River (50° N. 140° E.).

*Copy seen:* DLC; InU.

**23990. LOPATIN, IVAN A.** A shamanistic performance to regain the favor of the spirit. (Anthropos, Ephemeris, 1940-41. Bd. 35-36, p. 352-55)

Contains discussion of the performance of a shamaness to regain the favor of her patron spirit, as it was witnessed by the author among the Orochi at Ulka village, on the Tumnin River.

*Copy seen:* DLC; InU.

**LOPUKHOV, E. I.,** see Erakhtin, D. D., & E. I. Lopukhov. Odnokolefnye ledianye dorogi. 1942, 1950. No. 21681.

**23991. LORD, CLIFFORD SYMINGTON, 1908-** Mineral industry of District of Mackenzie, Northwest Territories. Ottawa, 1951. ix, 336 p., front., illus. (14 maps and plans) fold. table, 2 fold. maps. (Canada. Geological Survey. Memoir 261)

Includes all data found in the author's (out of print) *Mineral industry of Northwest Territories*, 1941, "where still applicable, and includes other developments to the end of 1947, and later in specified instances." "It contains an account of the many physical and economic factors affecting the mining industry, [and] chapters on the general and economic geology of the district. One hundred and thirty-nine mines, prospects, and mineral occurrences are described. These include most properties active in 1947, and many others. Figures pertaining to

tonnages and grades of reserve ore and sub-ore are, in nearly all instances, owner's figures; but a few such calculations were made by officers of the Geological Survey of Canada during World War II, mainly for small deposits of scheelite and various minerals in pegmatite dykes."—Preface by Chief Geologist. Useful table is given of production, 1932-49 of copper, gold, lead, natural gas, petroleum, pitchblende products, silver and tungsten concentrates. Includes data on transportation facilities, settlements, communications, labor conditions, wage scales, power resources, prospecting and operating costs, mining regulations, etc. Bibliography (over 400 items). Reviewed by J. D. Bateman in *Arctic*, July 1952. v. 5, no. 2, p. 125.

*Copy seen:* DGS.

**23992. LORD, CLIFFORD SYMINGTON, 1908-**, and F. Q. BARNES. Second preliminary map Aylmer Lake, Northwest Territories (map and descriptive notes). Ottawa, 1950. [1], 8 p., fold. map. (Canada. Geological Survey. Paper 50-10), mimeographed.

Descriptive notes by F. Q. Barnes on the physical features, glaciation, general geology and (in brief) the economic possibilities ("no commercial mineral deposits have been found") in the region between 64°-65° N. 108°-110° W.; with a geologic map, scale 1 in.: 2 miles, by C. S. Lord. *Copy seen:* DGS.

**23993. LOREE, DAVID ROBERT.** Notes on Alaskan medical history. (Northwest medicine, 1935. v. 34, p. 262-68)

An account of medical work and noted doctors in Alaska, commencing with Dr. G. W. Stellar, the first doctor in Alaska (1741-42, with the second Bering Expedition) and the second in the Pacific, and continuing to the present. Some great epidemics are noted and glimpses of health conditions at various periods given, including those amongst the gold diggers of the Klondike and Nome gold rush. Advances in public health work in more modern times are indicated.

*Copy seen:* DSG.

**23994. LOVÁSZY, PETER.** Beobachtungen über die Biologie und das Auftreten des Fichtenzapfenwicklers (*Laspeyresia strobilella* L.) und seiner Parasiten. (Suomen hyönteistieteellinen aikakauskirja, 1944. 7: 2, p. 93-103, tables, diagrs., map) *Title tr.:* Observations on the

biology and occurrence of the "pine cone moth" (*Laspeyresia strobilella* L.) and its parasites.

Includes description of damage done by larvae to the cones and seeds of pine. Map shows 1937 occurrence (including some Lapland localities) of the moth.

**Copy seen:** DLC.

**23995. LOVE, H. W.** A terrain study of Canada. (Military engineer, Sept.-Oct. 1950. v. 42, p. 350-55, illus., 2 maps)

General discussion of "the relation of Canada's geography to operations", sketching geographic and climatic regions including the arctic and subarctic areas, the communications (railways, roads, shipping routes, and winter and summer ice limits) the avenues of approach, and military operations in temperature, arctic and subarctic conditions.

**Copy seen:** DGS.

**23996. LOVE, LOIS HOSBACH, 1922-** . Heat loss and blood flow of the feet under hot and cold conditions. (Journal of applied physiology, July 1948. v. 1, p. 20-34, diags.) Ph.D. thesis, Univ. of Pennsylvania, 1947 or 1948?

Contains results, with discussion, of measurements of heat loss, blood flow and skin temperature of feet in two subjects living at 33° C. and 21° C. for period of two to seven days. Bibliography (26 items).

**Copy seen:** DLC.

**LOVE, LOIS HOSBACH, 1922-** , see also Bazett, H. C., & others. Precooling blood in arteries. 1948. No. 20518.

**23997. LOWIE, ROBERT HARRY, 1883-** . Biographical memoir of Franz Boas, 1858-1942. Presented to the Academy at the annual meeting, 1947. (In: National Academy of Sciences, Washington, D. C. Biographical memoirs, Washington, 1947. v. 24, 9th memoir, p. 303-322, port.)

A detailed biography and appraisal of the personality and achievements of the anthropologist is offered; along with a bibliography of Boas' works including publications resulting from his sojourn on Baffin Island in 1883-84 and his participation in the Jessup North Pacific Expedition.

**Copy seen:** DLC.

**LOWREY, ROBERT D.,** see Wilson, W. S., & others. Surface ozone College, Alaska, 1950. 1952. No. 27436.

**23998. LOZINA-LOZINSKAIA, AGNIA SERGEEVNA, 1893-** . Pervotsvet y dekorativnom sadovodstve. (Akademiia nauk SSSR. Botanicheskii institut. Trudy, 1952. Ser. 6, Introduktsiia rastenii i zelenoe stroitel'stvo, vyp. 2, p. 168-229, illus.) **Title tr.:** Primroses in the ornamental horticulture.

Contains some notes on the history of the study of the genus *Primula*, and on the principles of its subdivision, keys to the sections and descriptions of the sections; a table of distribution of *Primula* species in the U. S. S. R., including eight native to the far North of European Russia and Siberia. Keys to the decorative species of primroses are given and a list of 37 more promising species, with synonyms, descriptions and data on geographic distribution and decorative characteristics; includes *P. farinosa*, *P. gigantea* and *P. sibirica* native to northern Siberia.

**Copy seen:** MH-A.

**23999. LOZINA-LOZINSKII, L. K.** K poznaniu fauny Pantopoda Belogo moria. (Leningrad. Leningradskii nauchnyi institut imeni P. F. Lesgafta. Izvestiia, 1923. t. 7, p. 39-48, illus., table) **Title tr.:** White Sea Pantopoda.

Seventeen species of these crustaceans are described, two (*Nymphon rubrum* Hodge and *Eurycyde hispida* Kr.) new for this area. - Summary in English.

**Copy seen:** DLC.

**24000. LOZINA-LOZINSKII, L. K.** Pantopoda Kol'skogo zaliva i Barentsova moria po 33° 30' i 38° v. d., sobrannye rabotami Murmanskoi biologicheskoi stantsii s 1924 po 1928 g. Murmansk, 1929. 49 p. illus., tables. (Leningradskoe obschestvo estestvoispytatelei. Murmanskaiia biologicheskaiia stantsiia. Raboty, t. 3, no. [3]) **Title tr.:** The Pantopoda of Kola Bay and of Barents Sea on 33° 30' and 38° E., collected by the Murman Biological Station from 1924 to 1928.

Contains list of the species according to the localities and time of their collection. Author classifies the local Pantopoda (a kind of crabs) zoogeographically into five groups. The local distribution of the various species is analyzed and supplemented by data from earlier years. A systematic part (p. 19-46) gives a detailed morphometric description of the species. Bibliography (18 items). Summary in German.

**Copy seen:** DLC.

LUDLOV, see Berkh, V. N. Notice du voyage 1807 par M. Ludloff. 1819. No. 20630.

**24001. LÜTKEN, CHRISTIAN FREDRIK, 1827-1901.** *Conspectus Cyamidarum borealium hujusque cognitarum.* (Norske videnskaps-akademi, Oslo. Forhandling, 1870, pub. 1871, p. 279-80) **Title tr.:** *Conspectus of hitherto known boreal species of whale lice.*

*Contains* diagnoses of a new genus *Platycyamus* (*P. thompsoni*) and five species of whale louse (*Cyamus*) parasitic on whales and other cetaceans, including *C. mysticeti* (on *Balaena mysticetus*), *C. monodontis* and *C. boopis* (on *Megaptera boop*) native to Greenland Sea.

**Copy seen:** DLC; MH-Z.

**24002. LUK'ĀNOV, E. V.** *Ustrojstvo kotlovanov pod fundament v zimnee vremia metodom chastichnogo razmora-zhivaniia.* (Stroitel'naia promyshlennost' Oct. 1952. v. 30, no. 10, p. 29, diag.) **Title tr.:** Digging of foundation pits in winter by the method of partial thawing.

*Contains* description of a method developed by S. N. Zhirnov. It consists in thawing the frozen ground, only along the periphery of the pit, the frozen core being subsequently lifted out of the pit. It results in considerable economy of heat energy.

**Copy seen:** DLC.

**24003. LUK'ĀNOVICH, FEDOR KONSTANTINOVICH, 1904-1942, and L. V. ARNOL'DI.** *Opredelitel' dolgonosikov-trukhliaikov podsemeistva Cossoninae fauny SSSR i soprodel'nykh stran Evropy i Perednei Azii.* (Entomologicheskoe obozrenie, 1951, t. 31, no. 3-4, p. 549-65, illus.) **Title tr.:** A guide to weevils of the subfamily Cossoninae of the fauna of the U.S.S.R. and adjoining countries of Europe and Asia Minor.

*Contains* keys to 13 genera and 42 species of these weevils injurious to various trees and shrubs. Includes *Eremotes elongatus* native to northern regions of European Russia and Siberia.

**Copy seen:** MH-Z.

**24004. LUKKALA, OSKARI JALMARI, 1890-.** *Metsähallinnon suonkuivaus-toiminnassa saavutettuna kokemuksia sekä suuntaviivoja suonkuivausta koskevan tutkimustyön kehittämiseksi.* Helsinki, 1928. 29 p., incl. map, 8 illus. on 2 plates. (Silva fennica: 8) **Title tr.:** Experience gained in moor draining by the Finnish State Forest Service and

lines along which research work for moor draining should proceed.

*Outlines* program of systematic drainage of peat bogs in state forest regions since 1908: extent of areas drained, methods, personnel, costs, afforestation and ditching of drained areas; factors for consideration in drainage plans: moor types, peat types, fitness of moor for ditching, digging and afforestation; treatment and afforestation of forests in drained moors; need for research. Summary in English.

**Copy seen:** DLC.

**24005. LUKKALA, OSKARI JALMARI, 1890-.** *Tapahtuuko nykyisin metsämaan soistumista.* Helsinki, 1933. 127 p., illus., tables, maps., diags. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 19:1) **Title tr.:** Are swamps still forming in forest lands.

*Contains* (on basis of data from 17 experiment areas, including Teuravuoma, 67°10' N. 24° E.) a summary of the study of swamp spreading: swamp formation after the coming of pine trees, and on young sea shores; swamp movement traced by former fire remains and by old maps. Bibliography (80 items). Summary in German.

**Copy seen:** DLC.

**24006. LUKKALA, OSKARI JALMARI, 1890-.** *Tutkimuksia soiden kanto-kerroksista.* Helsinki, 1920. 76 p., 6 illus. on 3 plates, diags. (Acta forestalia fennica, 16) **Title tr.:** Studies on stump layers in swamps.

*Contains* a survey of previous studies and theories in this field; data on stump layering in swamps in various sections of Finland (mostly in the south and central parts) and conclusion that the thickness of the *Sphagnum-fuscum* peat layer in the swamps increased as the latitude decreased. Summary in German, p. 73-76. A briefer version of this paper was published in German as: *Untersuchungen über die Stubbenschichten und Feuchtigkeitschwankungen der Moore.* Helsinki, 1922. (Suomalainen tiedeakatemia. Annales Academiae scientiarum fennicae, A19:9), 31 p., plates, diag.

**Copy seen:** DLC.

**24007. LUKKALA, OSKARI JALMARI, 1890-.** *What points of view have to be taken into consideration, when draining swamp lands for afforestation.* (Silva fennica, 1927. 4, p. 64-70)

Summary data on extent (43.5 per cent

of northern Finland) and types of swamps; vegetation and economic factors for consideration in drainage plans; methods in drainage operations; natural and artificial afforestation. Summary in Finnish. **Copy seen:** DLC.

**24008. LUMIALA, O. V.** Kvartääribiologiasta. (Luonnon tutkija, 1941. v. 42, no. 2, p. 45-53, diags.) **Title tr.:** Quaternary biology.

On the basis of paleobiology, pollen and areolar studies and Quaternary geology, the author describes the prevalence of certain flora in Fennoscandia (with special reference to Finland) during various stages of Quaternary time; describes the field of Quaternary biology and includes data on the northernmost limits of some plant species.

**Copy seen:** DLC.

**24009. LUNCKE, BERNHARD, 1894-** . Norges Svalbard- og Ishavs-undersøkelers kartarbeider og anvendelsen av skrå-fotogrammer tatt fra fly. Oslo, J. Dybwad, 1949. 17 p., 2 maps. (Norway. Norsk polarinstitutt. Meddelelser nr. 68) Reprinted from Tidsskrift for Det norske Utskriftningsvesen, nr. 4, 1949. Bd. 19, hefte 7. **Title tr.:** Norwegian Svalbard and Arctic Ocean Survey's mapping program and use of aerial oblique photographs.

The topographer of the Norwegian Polar Institute reviews Norwegian mapping in polar regions, particularly in Spitsbergen and surrounding islands, and in Bjørnøya (Bear Island); with mention of treaties, coal deposits and place names of Svalbard, methods of mapping, tidal observations, glacier variations, and published charts and maps (areas indicated on two maps). "In all localities photogrammetric survey from the air was practised; and the plotting of maps has been carried out with modern precision plotting apparatus."—From English summary, p. 17. **Copy seen:** DGS.

**LUNCKE, BERNHARD, 1894-** , see also *Polarårbooken*. Norsk Polarinstitutt. 1951. No. 25177.

**24010. LUND, HARALD EGENAES.** To nyoppdagede veideristninger i Vistnesdalen, Vevelstad sogn, Tjøtta prestegjeld, Helgeland. (Norske videnskabers selskab, Trondhjem. Skrifter, 1940, pub. 1941, no. 3, p. 1-21, illus.) **Title tr.:** Two newly discovered rock pictures in

Vistnesdal, Vevelstad district, Tjøtta parish, Helgeland.

**Contains** a description and illustrations of two rock pictures, discovered in Tjøtta parish, Nordland, northern Norway, of mixed south Norwegian and arctic type, featuring wild animals of (probably) the stone age period; bibliography (14 items).

**Copy seen:** DLC; MH.

**24011. LUND, JOHN.** Cold water thawing of frozen placer gravel. (Canadian mining and metallurgical bulletin, Apr. 1951. v. 44, p. 273-77, illus.)

In this prize-winning undergraduate paper in the C. I. M. Student Essay Competition, 1950, author traces the evolution, season (Apr.-Oct.), and layout of dam pumps, pipes, points, houses and cross-heads, point-driving and -doctoring, bed-rock depth testing, barring concentrated thawing and removal of equipment. Includes brief notes on thawing crew, as found in Alaska and Yukon placer gold mines. **Copy seen:** DGS.

**24012. LUND, SØREN JENSEN, 1905-** . *Chantransia collopoda* K. Rosenv., a new rhodophyceous alga of the Danish waters. (Botanisk tidsskrift, 1942-46, pub. 1942. Bd. 46, hefte 1, p. 53-57, illus.)

**Contains** descriptive notes on *Chantransia collopoda*, a red alga known previously only from West Greenland waters (Holsteinsborg) and then found in Danish waters; also comparison with Greenland specimens. **Copy seen:** DA; MH-A.

**24013. LUNDBECK, JOHANNES.** Veränderungen im arktisch-norwegischen Kabeljau- und Schellfischbestand nach Untersuchungen an den deutschen Anlandungen 1929-39. (International Council for the Study of the Sea, Copenhagen. Rapports et procès-verbaux, 1939. v. 109, pt. 3, p. 5-14, incl. 5 p. of diags.) **Title tr.:** Fluctuations in the arctic Norwegian cod and haddock fisheries according to German catches 1929-39.

Analysis of statistics on length and year-class of the cod and shellfish in the Bear Island and northern Norwegian waters and in southern Barents Sea.

**Copy seen:** DL.

**24014. LUNDBECK, WILLIAM, 1863-1941.** Notitser om Grønlands entomologiske fauna. (Entomologiske meddelelser, 1891-92, pub. 1891. Bd. 3, hefte 1, p. 45-48, hefte 2, p. 49-52) **Title tr.:**

Notes on entomological fauna of Greenland.

Contains a general sketch of insect fauna of Greenland with data on geographic distribution and northern limits of various insect orders.

**Copy seen:** DA; MH-Z.

**24015. LUNDBLAD, OLOV, 1890-**

De svenska vattenhemipterernas ecologi och djurgeografiska ställning. Anteckningar om våra vattenhemipterer, IV. (Entomologisk tidskrift, 1936. Årg. 57, häft. 1, p. 29-74, illus., text maps) **Title tr.:** On the ecology and zoogeographic position of Swedish aquatic Hemiptera. Notes on Swedish aquatic Hemiptera, IV.

Contains an ecological study of the aquatic fauna of various types of water basins (flowing, stagnant, brackish water, peat bog), horizontal and vertical distribution, a general sketch of geographic distribution of aquatic Hemiptera and a list of 55 bugs, for which new localities were discovered during the study, including *Callicorixa producta* found in Sorsele and Jaivaara, Swedish Lapland; bibliography (222 items).

**Copy seen:** DA; MH-Z.

**24016. LUNDBLAD, OLOV, 1890-**

Die Hydracarina Schwedens 1. Beitrag zur Systematik, Embryologie, Ökologie und Verbreitungsgeschichte der Schwedischen Arten. (Zoologiska bidrag från Uppsala, 1927. Bd. 11, p. 185-540, illus., plates 1-21, text maps) **Title tr.:** Hydracarina of Sweden, 1. A contribution to systematics, embryology, ecology and history of spreading of Swedish species.

Contains a list of localities with notes on habitat and collections, p. 189-99; a systematic part (p. 200-329) with characteristics of these aquatic mites, their systematic division, descriptions of 23 species inhabiting Sweden, with synonyms and data on ecology and distribution in Sweden and in Europe; a study of post-embryonal development of Hydracarina, p. 330-97; some notes on the system of Hydracarina, p. 398-411; a study of Swedish species in their ecological and phytogeographic aspects, p. 412-520; and a bibliography (316 items). This extensive study is based partly on material from Swedish Lapland.

**Copy seen:** MH-Z.

**24017. LUNDBLAD, OLOV, 1890-**

Några insektsfynd från sommaren 1949. (Entomologisk tidskrift, 1950. Årg. 71,

häft. 2, p. 97-103, illus.) **Title tr.:** Some finds of insects in the summer, 1949.

Contains a systematic list of about 200 beetles and bugs collected by the author mostly in Lapland (Abisko, Torneträsk and Nuolja), Norrbotten (Nederkälix region) and a very few in Gästrikland.

**Copy seen:** DLC; MH-Z.

**24018. LUNDBLAD, OLOV, 1890-**

Några ord om aculeat och tubuliferfauna i Lycksele Lappmark. (Entomologisk tidskrift, 1924. Årg. 45, häft 1, p. 17-28)

**Title tr.:** Some words on Aculeata and Tubulifera fauna of Lycksele Lappmark.

Contains a systematic list of 76 species of aculeate and tubuliferan hymenoptera (bees, wasps, etc.) of Lycksele Lappmark, northern Sweden, with localities and occasional critical notes; also another list of 30 species from adjoining regions.

**Copy seen:** DLC; MH-Z.

**24019. LUNDBLAD, OLOV, 1890-**

Några skalbaggsfynd. (Entomologisk tidskrift, 1943. Årg. 64, häft. 3-4, p. 177-94, illus.) **Title tr.:** Finds of some beetles.

Contains critical notes on 14 species of Swedish beetles, including *Strangalia nigripes*, from Swedish Lapland and *Dorcatoma robusta* from northern Norway, with data on habitat and distribution in Scandinavia. **Copy seen:** DA; MH-Z.

**24020. LUNDBLAD, OLOV, 1890-**

Neue Hydracarina aus Schweden. Vorläufige Mitteilung, I; IV-VI. (Entomologisk tidskrift, 1924. Årg. 45, häft. 2-3, p. 67-72, illus.; (IV) 1925, Årg. 46, häft. 4, p. 175-81, illus.; (V-VI) 1926, Årg. 47, häft. 4, p. 205-208, illus.) **Title tr.:** New Hydracarina from Sweden. Preliminary report, I; IV-VI.

Contains descriptions of new species and varieties of fresh-water arachnids (Hydracarina) of Sweden, including *Eylais koenikei discordiosa* n. var. and *Arrhenurus lapponicus* n. sp. from the lakes Purkijäure and Jukkasjärvi, Lapland (pt. I); *Lebertia* (*Mizolebertia*) *frigida* from the Lake Abiskojaure, Torne Lappmark (pt. IV); and *Thyas bruzeli* (Jokkmokk, Lapland) and *Acalyptonotus violaceus mollis* n. var. from Torneträsk, Torne Lappmark (pt. V-VI); other parts of this series do not contain arctic material.

**Copy seen:** DLC; MH-Z.

**24021. LUNDBLAD, OLOV, 1890-**

*Notiophilus hypocrita* Putzeys funn en i Sverige. (Entomologisk tidskrift, 1921. Årg. 42, häft 2, p. 125-26) **Title tr.:**

*Notiophilus hypocrita* Putzeys found in Sweden.

Contains critical notes on this coleopter, a northern species known from Sydvaranger, Nordland and Tromsø.

**Copy seen:** DLC; MH-Z.

**24022. LUNDBLAD, OLOV, 1890- .** Some new localities for *Polyartemia forcipata* Fischer and *Branchinecta paludosa* (O. F. Müll.) in Sweden. (Entomologisk tidskrift, 1914. Årg. 35, häft. 3-4, p. 159-63, text maps)

Contains data on distribution of two northern phyllopods, *Polyartemia forcipata* and *Branchinecta paludosa* (known from Karesuando, Torneträsk and Sarek Mts. in Sweden, and Finnmark in Norway), found by the author in two freshwater ponds on the high plateau in Harjedalen (62° 43'-62° 55') region which "affords pure arctic conditions".

**Copy seen:** DLC; MH-Z.

**24023. LUNDBLAD, OLOV, 1890- .** Eine Übersicht des Hydrachnellensystems und der bis jetzt bekannten Verbreitung der Gattungen dieser Gruppe. (Zoologiska bidrag från Uppsala, 1941. Bd. 20, p. 359-79) **Title tr.:** A synopsis of the system of Hydrachnellae and the geographic distribution of the genera of that group.

Contains a synopsis of about 200 genera of aquatic mites, arranged in systematic order with list data on geographic distribution, and a survey of geographic distribution of the genera by natural groups (cosmopolites, palaearctic, holarctic, etc.); the distribution is given in general terms (Europe, Asia, etc.) but a few genera of fam. Libertiidae are mentioned from Kamchatka.

**Copy seen:** MH-Z.

**24024. LUNDBLAD, OLOV, 1890- .** Vergleichende Studien über die Nahrungsaufnahme einiger schwedischen Phyllopoden, nebst synonymischen, morphologischen und biologischen Bemerkungen. (Arkiv för zoologi, 1921. Bd. 13, no. 16, p. 1-114, illus., plate, text map) **Title tr.:** Comparative studies of the feeding habits of some Swedish Phyllopoda with notes on their synonymy, morphology and biology.

Contains a comparative study of the eating mechanism and eating habits of fairy shrimps (subord. Phyllopoda) based on the investigation of nine species, living in fresh waters of northern Scandinavia, Kola Peninsula, Arkhangel'sk

region, Novaya Zemlya, northern Siberia, West Spitsbergen, Greenland, Alaska and Labrador, with systematic notes and detailed data on Scandinavian and total distribution; bibliography (178 items).

**Copy seen:** DSI-M; MH-Z.

**24025. LUNDEVALL, CARL-FREDRIK.** Anteckningar om blåhakens (*Luscinia svecica* (L.) och savsparvens (*Emberiza schoeniclus* (L.)) nordiska raser. (Dansk ornithologisk forening. Tidskrift, 1950. Årg. 44, hefte 1, p. 30-40, diagr., text map) **Title tr.:** Notes on the northern races of the bluethroat *Luscinia svecica* (L.) and the reed bunting *Emberiza schoeniclus* (L.).

Contains data on the geographical races (northern and southern) of the Scandinavian redspotted bluethroat and the reed-bunting, based on the wing measurements of 140 and 120 specimens respectively, including many from Norwegian and Swedish Lapland. Summary in English.

**Copy seen:** MH-Z.

**24026. LUNDGREN, SVANTE.** Stigläst land. Fjäll och tundramarker i nordligaste Sverige. [Stockholm] Nordisk Roto-gravyr [1949] 180 p., incl. 88 plates, illus (3 sketch maps), fold. map. **Title tr.:** Pathless country. Mountain and tundra regions in northern Sweden.

Account of a summer visit to northernmost Norrbotten in 1948, with exceptionally fine photographs of bird life, terrain, lakes, and vegetation.

**Copy seen:** DLC.

**24027. LUNDMAN, BERTIL.** On the origin of the Lapps, physico-anthropological observations. (Ethnos, Stockholm, 1946. Bd. 11, no. 1-2, p. 71-88, 3 maps)

Contains discussion of the Lapps of Scandinavia as of two different racial groups: (1) a northern group of more or less Mongolic origin with Norwegian-Alpine influence; (2) the southern group, a strongly individualized and stabilized cross-bred race of east European (but not Mongolian) and Norwegian-Alpine primitive elements.

**Copy seen:** DSI-M; InU.

**24028. LUNDMAN, BERTIL.** Ergebnisse der anthropologischen Lappen Forschung. (Anthropos, Ephemeris, 1952. Bd. 47, no. 1-2, p. 119-32, sketch map) **Title tr.:** Results of the anthropological investigation of Lapps.

Contains short review of the most important contributions to the following

problems: the racial peculiarities of Lapps (small stature, the form and indexes of skull and face, color of eyes, hair and skin, etc.); theories about the origin of Lapps (the Scandinavian Lapps are a Europoid rather than Mongoloid race, a peculiar racial development, and the eastern Lapps are closer to the Samoyeds); the two racial groups and their peculiarities, viz Scandinavian Lapps, and eastern Lapps. A bibliography of about 30 research papers and several general and bibliographic works. **Copy seen:** DSI.

**24029. LUNDQUIST, KARE Z., 1912-** . Norsk Polarinstitutt's ekspedisjon til Svalbard og Jan Mayen 1952. (Norsk polar-tidende, no. 7-12, Polarårboken, 1952, p. 24-27, illus.) Text in Norwegian and English. **Title tr.:** Norsk Polarinstitutt's expedition to Svalbard and Jan Mayen in 1952.

Contains an account of the summer 1942 expedition on the M/S *Minna* with an itinerary; depth measurements around Jan Mayen were conducted, and a submarine crater rising to within 3 m. of the surface and known for over 300 years, located, and positionally fixed; trigonometrical and astronomical measurements, tide observations, geological and glaciological studies as well as ecological notes, were made. **Copy seen:** CaMAI.

**LUNDQUIST, KÅRE Z., 1912-** , see also *Polarårboken*. Norsk Polarinstitutt. 1951. No. 25177.

**24030. LUNDQUIST, ROY E.** Descriptive and quantitative classifications of various conditions persisting in snow and ice deposits. (International Geodetic and Geophysical Union. Association of Scientific Hydrology. Assemblée générale d'Oslo, 1948. Procès-verbaux. t. 2. Travaux de la Commission de la Neige et des Glaciers, pub. 1950? p. 182-85)

A "suggested outline first proposed . . . 1942, to the U. S. Weather Bureau" for the purpose of providing "some form of standardization in the various programs relating to snow research and observation by both professional and lay observers." Types of snow and ice deposits are classified into fresh accumulations and old deposits. The snow structure is graded according to grain size. The degree of cohesion or compactness is represented by density compared to an equal volume of water at 4° C standard conditions. The quality definition shows presence of

meltwater. Author is a U. S. Weather Bureau hydrologist. **Copy seen:** DGS.

**24031. LUNDQVIST, ARNE.** Blattminennotize, mit Beschreibung von zwei neuen Agromyziden. (Opuscula entomologica, 1949. Bd. 14, häft. 3-4, p. 169-74, illus.) **Title tr.:** Notes on leaf miners with descriptions of two new species of Agromyzidae.

Contains a list of four species (two are new) of leaf miners new to the fauna of Sweden, another list of 42 species new to various provinces, including four found in Swedish Lapland and a diagnosis of *Phytomyza* n. sp. collected, in 1946 in Torne Lappmark (Sweden) on *Arnica alpina*. **Copy seen:** DA; MH-Z.

**24032. LUNDQVIST, GÖSTA, 1894-** . En pälsmyr sydost om Kebnekaise. (Geologiska foreningen, Stockholm. Förhandlingar, Mars-Apr. 1951. Bd. 73, p. 209-225, illus., diagrs.) **Title tr.:** A "palsa" marsh southeast of Kebnekaise.

Describes hummocks of frozen peat ("palsa"—Finnish term for frost mound or peat mound) permanently stratified with ice, observed in this district of northern Sweden. Two theories on the development of these mounds are discussed: (1) that of Kairamo, "that they are erosional residues from a coherent marsh area," and (2) that of Fries "the peat moss is raised by peat [which] soaked in from the sides, when thawing caused a reduction in pressure at the bottom of the palsa". The author holds that ice is formed between layers of peat where capillary action sucks water into dry peat from wet marsh. Results of pollen analysis comprise most of the paper. The distribution of the hummocks is in areas above the 120 day-10°C isotherm. Bibliography (11 items). Summary in English.

**Copy seen:** DGS; DLC.

**24033. LUNDSTRÖM, ERIK.** Beobachtungen und Studien bei den in den Jahren 1912-13 ausgeführten Pflanzenbestimmungen in Botanischen Garten Bergielund (Hortus botanicus Bergianus). Stockholm, I. Marcus' boktr., 1914. 121 p., illus., plates 1-2. (Acta horti Bergiani. t. 5, no. 3) **Title tr.:** Observations and studies of the plants carried out in 1912-13 in the Bergielund Botanical Garden (Hortus botanicus Bergianus).

Contains the results of the study of about 70 decorative plants cultivated in

the open at the Bergielund Botanical Garden, with Latin descriptions of three species, eight varieties and forms and ten hybrids new to science; synonymy, critical notes, illustrations, and data on cultivation and geographic distribution are given. Includes some species native to northern Scandinavia, Kola Peninsula, northern Siberia, Kamchatka, Labrador and Ellesmere Land.

*Copy seen:* DLC; MH-A.

**24034. LUNELUND, HARALD VILHELM, 1882-** . Beiträge zur Kenntniss der Wärmestrahlung in Finland. Helsingfors, 1926. 20 p., tables. (Finska vetenskaps-societeten. Commentationes physico-mathematicae; 3:4) *Title tr.:* Contributions to the knowledge of thermal radiation in Finland.

Review of the author's earlier actinometric work at eight Finnish stations including Rovaniemi 66°29'N. 25°44'E. and Kemijärvi 66°43'N. 27°26'E. Discussion and agreement between observed and calculated values.

*Copy seen:* DLC.

**24035. LUNELUND, HARALD VILHELM, 1882-** . Contribution to the knowledge of solar radiation in Finland. Helsingfors, 1934. 58 p., tables, diagrs. (Finska vetenskaps-societeten. Commentationes physico-mathematicae, 7:11)

"Special attention was paid to the mean intensities both for total sun radiation and for separate spectral regions." Data are given on average intensities at 200 m. above sea level, the turbidity factor, intensities of the sun red radiation, percentage and highest intensity figures of red sun radiation, and the short turbidity factor, for Kemijärvi (66°43' N. lat.) and Rovaniemi (66°30' N. lat.) and contrasted with results from more southerly stations. Bibliography (20 items).

*Copy seen:* DLC.

**24036. LUNELUND, HARALD VILHELM, 1882-** . Pyranometrische Untersuchungen. Helsingfors, 1926. 18 p., illus., tables. (Finska vetenskaps-societeten. Commentationes physico-mathematicae, 3:5) *Title tr.:* Pyranometric investigations.

Results of pyranometric observations in Helsinki, published for the first time. Periods of observations Sept.-Dec. 1925, and Feb.-Apr., 1926. Total radiation, diffuse radiation and albedo were measured.

*Copy seen:* DLC.

**24037. LUNELUND, HARALD VILHELM, 1882-, and S. NORDSTRÖM.** Über die Himmelsstrahlung in Finland. (Geophysica, 1948. Bd. 3, p. 80-88, 5 fig., 6 tables) *Title tr.:* On radiation of the sky in Finland.

"The relation between diffuse and total radiation for clear days at different solar heights is discussed and illustrated by means of tables and charts. Measurements of short wave radiation were begun at Rovaniemi (66°52') and Raivola (60°15') as well as Helsinki, using Cadmium-cell photometers. Results for northern and southern Finland compared. In 1934 UV-dosimeter measurements were made at Ilmala and Dalsvik (in and near Helsinki), giving for the first time the relative intensity of ultraviolet sky radiation in Finland, agreeing favorably with measurements made at Berlin, Potsdam, etc."—*Meteorological abstracts and bibliography*, July 1950. v. 1, p. 430. Bibliography (8 items). Summary in English, p. 87.

*Copy seen:* DLC; DWB.

**24038. LUNELUND, HARALD VILHELM, 1882-** . Wärmesummen der direkten Sonnenstrahlung verschieden steiler Hänge in Finland. Helsingfors, 1927. 66 p., tables, diagrs. (Finska vetenskaps-societeten. Commentationes physico-mathematicae, 4:5) *Title tr.:* Thermal totals of direct solar radiation upon variously steep slopes in Finland.

One of the first, exhaustive, studies of the author on the problem of solar radiation. Observations made at 60°, 65°, 70°, N. lat. at various inclines directed towards the four main and four secondary points of the compass.

*Copy seen:* DLC.

**24039. LUOMA, N.** Napaluvunkorjauksen määrittäminen. (Maanmittaus, 1945. v. 20, no. 1-2, p. 30-32, tables) *Title tr.:* Determining the convergence of meridians in the North.

A mathematical formula for determining distance from the meridians in northern mapping work. *Copy seen:* DLC.

**24040. LUONNON TUTKIJA.** Eräiden riistaeläinten nykyinen esiintyminen maassamme. (Luonnon tutkija, 1947. v. 51, no. 1, p. 21-23, maps) *Title tr.:* On the present distribution of game birds in our country.

Introductory note and 12 maps showing occurrence of 12 game animals

Finland, seven extending north of the Arctic Circle. **Copy seen:** DLC.

**24041. LUONNON TUTKIJA.** Eräiden riistaeläinten nykyinen esiintyminen maassamme. (Luonnon tutkija, 1948. v. 52, no. 3, p. 88-90, maps) **Title tr.:** The present distribution of game animals in Finland.

Contains introductory note followed by 24 maps showing the distribution of 18 mammals and six birds in Finland, 13 mammals and four birds extending into the far North. **Copy seen:** DLC.

**24042. LUPANDER, KURT.** Sedimentformationen på Fiskarhalvön. (Finland. Geologiska kommission. Bulletin, 1934. no. 104, p. 89-99, illus.) **Title tr.:** Sedimentary rocks of Fisher's Peninsula.

The author carried out studies on the arctic coast during the summers of 1928-30, and 1933. He gives here a general description of the lithology and stratigraphy of the Cambro-Silurian formation in the Rybachiy (Fisher) Peninsula region, in two groups and characterizes briefly the strata of each. Summary in English. **Copy seen:** DLC.

**24043. LUTHER, ALEX.** Johan Axel Palmén som geograf. (Terra, 1938. 50:1-2, p. 57-66, illus., port.) **Title tr.:** Johan Axel Palmén as geographer.

Outline of the scientific achievements of the ornithologist J. A. Palmén, 1845-1919; his trip to Lapland with Sahlberg in 1867; his study in migration routes of birds and interest in related geographic problems; his work on ornithological materials collected during the *Vega* expedition; work on the *Atlas of Finland*, his activities in the Finnish Geographical Society and good offices in securing Nordenskiöld's geographic library to the University of Helsinki. Note and illustration of the Geographical Society's memorial medal to Palmén. Summary in German. **Copy seen:** DLC.

**24044. LUTHER, ALEX.** Über die nördlichsten Fundort von *Anodonta piscinalis* Nilss. (Societas pro fauna et flora fennica. Memoranda, 1950-51, pub. 1952. no. 27, p. 80-83) **Title tr.:** On the northernmost locality of *Anodonta piscinalis* Nilss.

Contains a survey of literature data on occurrence of *Anodonta piscinalis*, a fresh-water mussel found in northern regions, including Immeljärvi (67°50' N.) in Finnish Lapland, Pechora River (67°

N.) and the Ob', Yenisey and Lena Rivers in Siberia. **Copy seen:** MH-Z.

**LUTKEVICH, E. M., see LIÛTKEVICH, E. M.**

**24045. LUTZ, H. J.** The concentration of certain chemical elements in the soils of Alaskan archaeological sites. (American journal of science, Dec. 1951. v. 249, p. 925-28)

Notes the higher phosphorus, nitrogen, potassium and calcium content of soils from old village sites on Kenai Peninsula and just northwest of Juneau in southeast Alaska, and briefly discusses vegetation differences resulting from such fertility as archeologic markers. Bibliography (9 items). **Copy seen:** DGS; DSI-M.

**24046. LUTZ, H. J.** Damage to trees by black bears in Alaska. (Journal of forestry, July 1951. v. 49, p. 522-23, illus.)

Damage noted at base of trees on Kenai Peninsula as done by *Euarctos americanus perniger*; reference to serious damage recorded in forestry literature of the Pacific Northwest, and some remarks on why bears strip the bark. Bibliography (3 items). **Copy seen:** DA; DLC.

**24047. LUTZ, H. J.** Occurrence of clefts in the wood of living white spruce in Alaska. (Journal of forestry, Feb. 1952. v. 50, no. 2, p. 99-102, illus.)

Notes on investigations made in the summer of 1949 on the white spruce, *Picea glauca*, in Kenai Peninsula and Matanuska valley, Alaska. The clefts are attributed to the unbalance between loss and replenishment of water. The injury occurs in the outermost annual ring during the dormant period. The structure of wood and rate of growth are claimed to be additional contributory factors. "Frozen ground prevents, and low soil temperature and poor aeration restrict water absorption by tree roots. Water lost by transpiration cannot be replenished while the soil is frozen or very cold and an unbalance exists. The collapsed wood does not recover when subjected to boiling or steaming and presents a serious defect in trees to be used for lumber."—SIPRE. Bibliography (7 items). **Copy seen:** DA; DLC.

**24048. LUYET, B. J.** The resistance of living matter to very low temperatures. (In: American Institute of Physics. Temperature, its measurement and control in science and industry. New York,

Reinhold Pub. Corp., 1941. p. 425-27)

Contains an account of experiments in vitrification (rapid freezing without ice-crystal formation) and devitrification of unicellular algae, *Paramecia*, *Myxamoebae*, spermatozoa, onion epidermis, moss leaves and muscle fibres. The results varied. The significance of the experiments are discussed.

**Copy seen:** DLC.

**24049. LUYET, B. J.** Survival of cells, tissues and organisms after ultra-rapid freezing. London, Institute of Biology, 1951. 24 p. reprinted from *Freezing and drying*.

Contains an account of rapid freezing and rewarming (vitrification and devitrification) of muscle tissues, embryonic chick heart, erythrocytes, frog spermatozoa, moss leaves, "eel" worms, etc., partly dehydrated. The results varied, according to the object, from a few minutes' to permanent survival. The account is preceded by an examination of the physical principles of vitrification and followed by remarks on problems of technique. Bibliography (about 50 items).

**Copy seen:** CaMAI.

**24050. L'VOV, V. E.** Zavoevanie pol'arnykh pustyn' Leningrad, 1928. 62 p., illus., maps. (Vestnik znaniia. Priroda i ljudi, no. 10) **Title tr.:** Conquest of the polar wastes.

Following an introductory discussion on the place of air travel in arctic exploration, the author presents detailed accounts of air expeditions to the Arctic and/or the North Pole, viz, those of Andrée and Amundsen, flights of the *N24* and *N25*, those of the *Norge*, *Italia*, *LZ127* (Zeppelin) and some others. **Copy seen:** DLC.

**24051. LYKOSHIN, A. G.** Mnogoletniia merzlota v doline reki Ufy. (Priroda, Jan. 1952. no. 1, p. 115, diagr.) **Title tr.:** Permafrost in the Ufa River valley.

Contains a brief report on permafrost and rock ice found 175-180 km. from the mouth of the Ufa River (55°30' N. 56°30' E.). The local geology, drilling results and an explanation of this southern occurrence of the phenomenon are offered as: "results from moist air entering fissures in the limestone and the moisture freezing upon condensation; weak insolation on the slope during summer combined with the insulating action of the moss cover preserves the frozen ground during the hottest summers."—SIPRE.

**Copy seen:** DLC.

**24052. LYNCH, WILLIAM ALOYSIUS, 1892-**, and **V. DILLON.** Characteristics of Alaskan earthquake records at distances of 40° to 70°. (Seismological Society of America. Bulletin, July 1947. v. 37, p. 181-95, incl. tables, map)

Study of 84 (of the 124) Alaskan and Aleutian earthquakes which have been recorded at Fordham University, 1928-44. Alaska and Kenai Peninsulas are active; the greatest activity is opposite the Aleutian Trough; "seismic belt divides near Kenai Peninsula, one part swinging northward to the Tanana region around Fairbanks, and the other eastward to Yakutat Bay."

**Copy seen:** DGS.

**24053. LYNCH, WILLIAM ALOYSIUS, 1892-**, and **V. DILLON.** The deep-focus earthquake of May 19, 1940, in the Sea of Okhotsk. (Seismological Society of America. Bulletin, Oct. 1943. v. 33, p. 251-67, incl. tables, diagrs.)

Data and notes on location of epicenter, determinations of time of origin and depth of focus, and travel-time curves; tabular presentation of arrival times for various phases at stations throughout the world; and (in detail) the phases identified from original seismograms, for a quake at 50°01' ± 7' N. 148°58' ± 10' E., depth 580 km.

**Copy seen:** DGS.

**24054. LYNGE, BERNT, 1884-1942.** Lichens in the herb. Gunnerus. (Norske videnskabers selskab, Trondhjem. Skrifter, 1920, pub. 1921. nr. 3, p. 1-12)

Contains a critical revision of about 40 lichens in the herbarium of Bishop Gunnerus, deposited at the Norwegian Scientific Society of Trondhjem, arranged according to Gunnerus' *Flora Norvegica*; includes a few species native to northern Norway. **Copy seen:** DLC; MH-A.

**24055. LYNGE, BERNT, 1884-1942.** Neue Flechten aus Norwegen. (Bergen, Norway. Museum. Aarbok, 1912, pub. 1913. no. 10, p. 1-10, plate 1) **Title tr.:** New lichens from Norway.

Contains Latin diagnoses of *Physcia wahlenbergii* n. sp. from Tromsø island, *Parmelia olivacea* var. *septentrionalis* n. var. collected in Målselv, arctic Norway, and three new forms of lichens from Tromsø province in northern Norway.

**Copy seen:** MH-Z.

**24056. LYSER, L. L.** Parasites of some Canadian sea mammals. (Canadian

journal of research, 1940. v. 18, sec. D, p. 395-409, table, illus.)

Contains report of a survey made with the assistance of the Canadian Mounted Police, the Hudson's Bay Co., the N. R. C. and others. Four nematode worms, two acanthocephalid worms and specimens of the tapeworm genus *Diphyllobothrium* from seals and white whales are reported and described. A new species *Phocascaris netsiki* (sp. nov.) is described from the seal *Phoca hispida*. A considerable amount of the material originates in the arctic region. Bibliography (12 items).

**Copy seen:** DSG.

**24057. LYTKIN, GEORGIĬ STEPANOVICH, 1835-1907.** Syrjänische Sprachproben. (Suomalais-ugrilainen seura. Aikakauskirja, 1892. v. 10, p. 63-100) **Title tr.:** Specimens of the Zyryan language.

Contains 12 tales, 61 proverbs, 66 riddles and 17 bride's wedding laments in Zyryan and German. The texts were transcribed by P. Kijanen and translated by Yrjö Wichmann from the Russian as published in Lytkin's *Zyriänskiĭ kraĭ*, 1899 (q. v.) v. 2, p. 157-94.

**Copy seen:** DLC; InU.

**24058. LYTKIN, GEORGIĬ STEPANOVICH, 1835-1907.** Zyriänskiĭ äzyk; pribavlenie; russko-votsko-zyriänskiĭ slovar'. Sanktpeterburg, v Sinodal'noi tipografii, 1884. 60 p. **Title tr.:** The Zyryan language; a supplement; Russian-Votyak-Zyryan dictionary.

**Copy seen:** DLC.

**24059. LYTKIN, GEORGIĬ STEPANOVICH, 1835-1907.** Zyriänskiĭ kraĭ pri episkopakh' permskikh' i zyriänskiĭ äzyk' ... Posobie pri izuchenii zyriänami russkogo äzyka. St. Peterburg, Imp. Akademiia nauk, 1889. 1 p. l., viii, 88 p.; 1 l., iv, 232 p., col. front illus. map, facsim. **Title tr.:** The Zyryan land during the Perm episcopate and the Zyryan language; assistance to Zyryans to learn the Russian language.

Contains in the first part Zyryan church history of the previous five hundred years: the life story of St. Stephan, teacher of Zyryans around Vyehogda and Sysolsk, the old Zyryan literature (Zyryan alphabet of 1372 and other old texts in facsim., early translations, etc.), the Permian bishops after St. Stephan. Pt. 2 consists of a Zyryan grammar (iv, 1-42 p.), Zyryan-Russian dictionary (p.

43-116), folklore (tales, proverbs, riddles, and bride's laments) in Zyryan and with Russian translations (p. 157-94), Russian texts translated into Zyryan (p. 195-220), Christian prayers in both languages (p. 221-26), and an essay on the question of Zyryan language and letters (p. 227-32); includes also a Votyak-Russian dictionary (p. 117-56).

**Copy seen:** DLC.

**24060. LYTKIN, GEORGIĬ STEPANOVICH, 1835-1907.** Zyriänsko-votsko-russkiĭ bukvar' i sviideniia iz grammatiki fserkovno-slaviänskago i russkago äzyka. Sanktpeterburg, v Sinodal'noi tipografii, 1887. 31 p. **Title tr.:** Zyryan-Votyakian-Russian ABC-book and instruction in grammar of Church-Slavonic and Russian language.

**Copy seen:** DLC.

**24061. LYTKIN, VASILIJ.** Zur Datierung der syrjänisch-russischen Lehnbeziehungen. Helsinki, 1928. 24 p. map. (Suomalais-ugrilainen seura. Aikakauskirja, v. 42, no. 4) **Title tr.:** On the dating of Zyryan-Russian loan (word) relations.

Contains linguistic investigation of two sounds *a* in *t'al'*, and *s* or *z*, in Zyryan words of Russian origin, borrowed before the 15-16th centuries. These two cases are illustrated by 53 and 20 Russian loan-words respectively. The Zyryans came in contact with Russians in the territory around the rivers Vyehogda, Mezen', Luza, and Pechora as early as the 11th century. In the 14th century the Zyryans were baptized into the Orthodox Church and came definitely under the rule of Moscow. During almost a thousand years of close relations, the Zyryans took over many words from the Russian language, which likewise absorbed Zyryan expressions. Map shows the recent limits of the Zyryan population.

**Copy seen:** DLC; InU.

**24062. MAANMITTAUS.** Petsamon alueen rajankäynti. (Maanmittaus, 1945. v. 20, no. 3-4, p. 109-111) **Title tr.:** Establishing the border in the Petsamo area.

Describes the boundary and boundary markers between northern Finland and the U. S. S. R. after the peace treaty in 1944.

**Copy seen:** DLC.

**24063. MÄRTENSSON, OLLE.** Några mossfynd från västra Lule Lappmark. (Svensk botanisk tidskrift, 1950. Bd. 44, häfte 3, p. 488-96) **Title tr.:** Bryophytes from western Lule Lappmark.

Contains a list of 16 liverworts and 25 mosses collected by the author in the vicinity of lakes Virihaure, Vastenjaure and Sallohaure, in northern Sweden during the summers of 1946 and 1947, with data on habitat. Summary in English. **Copy seen:** DA; MH-A.

**24064. M'ANDREW, R.** List of species of Mollusca obtained by Prof. Goodsir from Spitzbergen. (Annals and magazine of natural history, Dec. 1855. Ser. 2, v. 16, p. 465-66)

Fourteen species are enumerated, with mention of the (then) small collection of Spitzbergen shells in the British Museum.

**Copy seen:** DSI-M.

**24065. McATEE, WALDO LEE, 1883-** Birds recorded from Greenland in 1776. (Auk, Apr. 1950. v. 67, p. 250)

Records given in O. F. Muller's *Zoologicae danicae prodromus*, 1776, are tabulated in the original and up-to-date nomenclature. **Copy seen:** DSI-M.

**MacBETH, R. J.,** see Kark, R. M., & others. Observations mobile arctic force. Health. 1948. No. 23138.

**24066. MacCARTHY, A. H.** Food. (In: Alpine Club of Canada. The Mount Logan Expedition. Pub. in: Canadian alpine journal, 1925. v. 15, p. 115-20)

Notes on quantities, packaging, and protection of food, and on emergency, high altitude and base rations for eight men, during this three-month expedition, May-Aug., 1925, on Mt. Logan in Yukon Territory. **Copy seen:** DGS.

**MacCARTHY, A. H.,** see also Alpine Club of Canada. Mount Logan Expedition. 1925. No. 20155.

**24067. MacCARTHY, GERALD RALEIGH, 1897-** Geothermal investigations on the arctic slope of Alaska. (American Geophysical Union. Transactions, Aug. 1952. v. 33, p. 589-93, diagrs.)

Contains preliminary results of investigations in progress near Barrow, Alaska. They "indicate that below the level to which seasonal changes penetrate, ground temperatures do not fall below about  $-10^{\circ}$  C. The depth of the  $0^{\circ}$  C. isogeotherm ranges from 670 to 1300 feet, increasing with the distance from the nearest large body of water."

**Copy seen:** DGS.

**McCARTHY, M.,** see Sanders, I. T. Societies around the world. 1952. No. 25824.

**24068. McCLELLAN, CATHARINE, and D. RAINIER.** Ethnological survey of southern Yukon Territory, 1948, preliminary report. (Canada. National Museum. Annual report for 1948-49, pub. 1950, in its: Bulletin no. 118, p. 50-53)

Notes on Indians of Carcross, Teslin, Klukshu, and Burwash Landing, their aboriginal food-gathering economy, social organization and mythology, especially as they relate to the Tlingit-speaking inhabitants of the Alaska coast.

**Copy seen:** DGS.

**McCLELLAN, CATHARINE,** see also de Laguna, F. Some dynamic forces Tlingit society. 1952. No. 21394.

**M'CLINTOCK, Sir FRANCIS LEOPOLD, 1819-1907,** see Arctic circular. Microfilm records M'Clintock exped. 1951. No. 20276.

**McCOLLESTER, DUNCAN L.,** see Haley, T. R., & others. Medical reports Juneau Ice Field 1949-51. 1951. No. 22377.

**24069. McCOLLUM, ERNEST L.** The psychological aspects of arctic and sub-arctic living. (In: Alaskan Science Conference . . . 1950. Selected papers, 1952. p. 254-57)

Contains a brief appraisal of some psychological factors, which tend to assume an abnormal role in the areas under discussion; based largely on research at the Arctic Aeromedical Laboratory, Ladd Air Force Base, Fairbanks, Alaska. Except for the stress of climate, no specific factor was found to affect adversely the newcomer; even this factor affected (mostly indirectly) the psychologically subnormal and poorly integrated types. Bibliography (5 items).

**Copy seen:** DAI; DLC.

**McCOLLUM, ERNEST L.,** see also U. S. Arctic Aeromedical Laboratory. Survey human adjustment problems: military offenders. 1951. No. 26887.

**McCOLLUM, ERNEST L.,** see also U. S. Arctic Aeromedical Laboratory. Survey human adjustment problems: morale. 1951. No. 26885.

**McCRAVEY, A.**, *see* Oppenheimer, M. J., & A. McCravey. Circulation time in man at low temp. 1940. No. 24852.

**McCRAVEY, A.**, *see also* Oppenheimer, M. J., & A. McCravey. Pulmonary circulation time man low body temp. 1941. No. 24853.

**24070. MacCULLOCH, J. A.** Shamanism. (*In*: Hastings, James, *ed.* Encyclopaedia of religion and ethics, 1921. v. 11, p. 441-46)

*Contains a general description of what shamanism is; the shaman and his functions, dress and accessories, organization. Remarks on the shaman among Eskimos.*

**Copy seen:** DLC; InU.

**24071. McCURDY, RICHARD E., and HUGH A. JOHNSON.** Agricultural possibilities of Alaska's Kenai Peninsula. (Alaska. Agricultural Experiment Station. Bulletin, no. 13, Mar. 1951, p. 1-26, illus., map, tables)

*Contains report of a study made during the summer of 1950. Includes information on the potential agricultural areas, their climate, growing season, location and quality, location of the study area, etc.; also a report on the homesteading farms, their development, livestock, buildings and equipment, water supply, income and expenses.*

**Copy seen:** DA.

**24072. MACDONALD, CHRISTINE.** Publications of the Governments of the North-West Territories and the Province of Saskatchewan, 1877-1947; preliminary check list. Regina, Sask., Archives and Govt. Publications Division, Legislative Library, 1948. iv, 84 l.

*Contains a record mainly of provincial documents ("Northwest Territories" formerly included region now the provinces of Saskatchewan, Alberta and Manitoba) and those relating to the same area before the province was organized in 1905. Includes, however, record of some documentary files (Journals of Legislative Assembly and Council, Ordinances, etc.) which concern the more northerly area now known as Northwest Territories.*

**Copy seen:** DLC.

**MacDONALD, D. K. C.**, *see* Wyndham, C. H., & D. K. C. MacDonald. Human immersion & survival in cold water. 1951. No. 27505.

**24073. MacDONALD, IAN.** Yellowknife gains momentum. (Canadian mining

journal, Jan. 1950. v. 71, no. 1, p. 66-67) Report of expansion and production of gold mining in the Yellowknife Bay area of Great Slave Lake, 1949.

**Copy seen:** DGS.

**24074. McDONALD, MARSHALL, 1835-1895.** Report on the salmon fisheries of Alaska. (U. S. Bureau of Fisheries. Bulletin, 1892, *pub.* 1894. v. 12, p. 1-38, 9 plates. Issued also as: U. S. Congress. 52d, 1st sess. Senate miscellaneous document 192)

*Brief history, 1887-92, of the industrial exploitation of salmon especially on Karluk River (Kodiak Island) and federal regulations beginning 1889; description of apparatus and methods; and discussion of need for protection of the salmon.*

**Copy seen:** DI.

**24075. MacDONALD, S. D.** Biological investigations on Prince Patrick Island. (Canada. National Museum. Bulletin 123, its Annual report for 1949-50, *pub.* 1951, p. 131-32)

*Contains short account of work of a two-man party (representing National Museum of Canada and the Smithsonian Institution, Washington, D. C.) at Mould Bay during Apr.-Oct. 1949. The physiography and vegetation are described, and author's collections indicated but not listed; 207 birds, 122 mammals (103 were lemmings) taken at intervals throughout the season in various phases of pelage change; four lots of fossils taken are identified with notes by the Geological Survey of Canada and Hans Frebold.*

**Copy seen:** DLC.

**24706. MacDONALD, TORRENCE F.** Glaze and high winds at Fairbanks, Alaska and Nome, Alaska (1936-1940). U. S. Weather Bureau, Special Report no. 251. Compiled by Stat. Div. for A. A. F. Weather Information Service, as Report no. 411, ca. 1943. 11 p., 3 fig. 5 tables.

*"Nome and Fairbanks values for depths of glaze accretions were estimated from air temperature, wind and precipitation data. Mean and extreme wind velocities occurring during the glazing period were recorded to estimate the total load. Glaze and high winds occurred much more frequently at Nome than at Fairbanks. Data tabulated."—Meteorological abstracts and bibliography, Oct. 1952. v. 3, no. 10, p. 1093.*

**Copy seen:** DWB.

**McDOUGALL, GEORGE FREDERICK**, see *Illustrated arctic news*, 1852. No. 22800.

**24077. McELVENNY, ROBERT T.** The effect of cooling traumatized and potentially infected limbs. (Surgery, gynecology and obstetrics, Aug. 1941. v. 73, p. 263-64)

Contains references to earlier use of cold in surgery and a report with case histories, on two amputations, preceded with ice-packing of the affected region which acted as anesthetic and also hemostatic means. In a third, similar case, sulphur treatment was used and the advantages of ice packs could not be evaluated. Bibliography (6 items).

**Copy seen:** DLC.

**24078. McEUN, C. S.** An examination of the mouths of Eskimos in the Canadian Eastern Arctic. (Canadian Medical Association. Journal, 1938. v. 38, p. 374-77, tables)

Report on findings made during the Canadian Eastern Arctic Patrol of 1937 on the *Nascope*. 106 cases are recorded for teeth missing, caries, pyorrhoia, sordes and enlarged tonsils. The native mouths were found in excellent condition, which is attributed to a low carbohydrate diet and the real use of teeth for the raw meat diet.

**Copy seen:** DSG.

**24079. MACFIE, HARRY, and HANS G. WESTERLUND.** Wasa-Wasa. A tale of trails and treasure in the far North. New York, W. W. Norton & Co., 1951. 288 p. Translated from the Swedish edition *Wasawasa* 1945 by F. H. Lyon. English translation also published in London by Allen & Unwin, 1951 (244 p. map)

Contains an account of the senior author's life in the Yukon and Alaska for several years following 1897, his experiences gold digging with his friend Sam Kilburn, particularly in the Fish River region near Nome. Includes descriptions of hunting and fishing, the Eskimos, Indians, etc.

**Copy seen:** DLC.

**24080. MacGILLIVRAY, ALEXANDER DYER, 1868-1924.** New saw-flies from the Pribilof Islands, Alaska. (In: Hanna, G. D., and others. Insects of the Pribilof Islands, Alaska, 1921. p. 188-92)

Contains a description of six new species: *Pontania sueta*, n. sp., *P. stipata*, n. sp., *P. subatrata*, n. sp., *P. sublorata*, n. sp., and *Pachynematus venustus*, n. sp., *P. vernus*, n. sp. **Copy seen:** DSI-M.

**McGLONE, B.**, see Burton, A. C., & others. Slow adaptation in heat exchanges of man. 1940. No. 21040.

**24081. MACHETANZ, SARA.** A search for land; [and] Log by log. The first [and] second of two chapters of "A cabin in the Matanuska." (Alaska sportsman, Mar.-Apr. 1951. v. 17, no. 3, p. 6-11, 35-36; no. 4, p. 20-25, 32-34, illus.)

Description of author's experience obtaining homestead rights, clearing, building road and cabin, and present-day problems of making a home in the Matanuska valley. **Copy seen:** DI.

**24082. MACHT, HANS G.** Die Lage des magnetischen Nordpols. (Polarforschung, 1948, pub. 1950. Bd. 2, Jahrg. 18, p. 4-6, i. e. p. 200-202) **Title tr.:** The position of the magnetic North Pole.

Review of R. G. Madill's *The search for the north magnetic pole*, 1948 (see *Arctic Bibliography*, No. 10705), and note on H. S. Jones' *The positions of the magnetic poles*, 1948, q. v.

**Copy seen:** DGS.

**24083. MACHT, HANS G.** Meteorologische und fliegerische Erfahrungen von deutschen Wetterkungsflügen in der Arktis, 1941-1944. (Polarforschung, 1951. Bd. 3, Jahrg. 21, p. 2-9) **Title tr.:** Meteorological and flight experiences of the German weather information flights into the Arctic, 1941-1944.

The author who participated during Feb. 1942-Nov. 1944, as weather observer, describes (largely from memory, without documents) the experiences of the German Northern Weather Information Service (Nordraum-Wetterkungsstaffel) which made over 1000 arctic flights in twin-engined land planes, up to 1500 km. distance from northern Norwegian bases. Includes notes on summer sea fog, and various typical weather layers, zones and fronts in the area between East Greenland and Novaya Zemlya, northern Norway and West Spitsbergen; also on the organization and functioning of the service based at Banak (70° N. 25° E.) at the south end of Porsanger Fjord, with remarks on routine flight objectives, navigation problems, and flight hazards.

**Copy seen:** DGS.

**MACHT, M. B.**, see Ames, A., & others. Study of methods of rewarming men. 1948. No. 20181.

**24084. McHUGH, JOHN LAURENCE, 1911-**, and **J. E. FITCH.** An annotated list of the clupeoid fishes of the Pacific Coast, from Alaska to Cape San Lucas, Baja California. (California fish and game, Oct. 1951. v. 37, p. 491-95) Distributional records, including 3 herring species ranging to Bering Sea.

**Copy seen:** DSI-M.

**24085. MacINTOSH, WILLIAM ALEXANDER, 1890-** . Canada as an area for settlement. (*In:* Bowman, Isiah, ed. Limits of land settlement. New York, Council on Foreign Relations, 1937, p. 57-87, 16 maps)

*Contains* (p. 77) brief statement on mining and forest regions mainly within the Canadian Shield in relation to potential settlement.

**Copy seen:** DLC.

**24086. M'INTOSH, WILLIAM CAR-MICHAEL, 1838-1931.** On the annelids of the British North-Polar Expedition. (Linnean Society, London. Journal; Zoology, 1879. v. 14, p. 126-34)

Introductory remarks on distribution of annelids in American and Eurasian arctic seas, annotated list with localities of the 20 species collected by H. S. Feilden between 79°-82° 30' N. in Smith Sound-Robeson Channel, on the Nares' expedition; also a table showing the 22 species common to this and the Austro-Hungarian Expedition of 1872-74.

**Copy seen:** DLC.

**24087. MACKAY, A. FORBES.** Some notes on health in the Antarctic. (Edinburgh medical journal, 1910. n. s., v. 4, p. 219-22)

*Contains* report on the health condition of a party of 15 who spent about 14 months within the Antarctic Circle. Deals in particular with frostbite and snow blindness.

**Copy seen:** DSG.

**24088. MACKAY, CORDAY.** The Overland Telegraph. (Canadian geographical journal, 1946. v. 32, no. 4, p. 173-80, illus.)

Account of P. M. Collins' scheme (1865-66) to build a telegraph line to Europe across northwestern North America, Bering Sea and Siberia. Brief introductory outline of the spread of telegraph communication; preparatory work on the scheme "to link the existing Western Union Telegraph at San Francisco with lines in use from Moscow to the mouth of the Amur River on the

Siberian coast . . . by means of a line through British Columbia and Alaska which would be carried across the Bering Sea on a short cable"; equipment and personnel; the route; exploratory and survey work in British Columbia Alaska and Siberia, particularly Kennan's in Kamchatka; news of completion of the Atlantic cable and abandonment of the Western Union's project.

**Copy seen:** DLC.

**McKAY, ELIZABETH A.,** *see* Barbour, H. G., & others. Approach to use drugs in hypothermia. 1944. No. 20461.

**McKAY, ELIZABETH A.,** *see also* Barbour, H. G., & others. Water shifts in deep hypothermia. 1943. No. 20463.

**24089. MACKAY, G. A.** The effect of protracted spring thaws on ice conditions in Hudson Bay. (American Meteorological Society. Bulletin, Mar. 1952. v. 33, p. 101-106, incl. tables, graphs, maps)

"Reconnaissance flights during March and April 1948 disclosed that Hudson Bay was almost completely ice-bound. Large areas of open water were observed from May 3 to May 6. The weather records indicated above-normal temperatures over the area of open water from April 25 to May 3. A high correlation was found between late spring temperatures and date of ice clearance at Churchill Harbour from 1928 to 1948. It was concluded that the early thawing of ice on the Bay was caused by above-normal spring temperatures."—SIPRE.

**Copy seen:** DLC.

**24090. McKINLEY, CHARLES,** and others. Case for limited modification of cabotage to facilitate economical integration of Canadian and United States railroad and steamship transportation in the North Pacific. Portland, Ore., 1944. 2 p. l., 28 p. incl. tables. (North Pacific Planning Project. North Pacific Study. [No. 10]) mimeographed.

*Other authors:* J. C. Rettie, G. Sundborg, and S. Mirick.

Discussion (mainly) of exceptions to the enforcement of the policy of "cabotage" (restriction of the coasting trade to U. S. citizens), and history of the issue in relation to railroads. Concluding section shows how Alaskan trade suffers from "cabotage"; how shipping costs could be lowered appreciably by use of the Prince Rupert shipping route and Canadian railroads. Tabular data is

given on differentials in shipping costs from the Midwest and the East to Alaska via Prince Rupert as against the Seattle route. **Copy seen:** DI.

**24091. MCKINLEY, CHARLES, and others.** United States-Canadian post-war civil aviation relationships in the North Pacific. Portland, Ore., 1944. p. l., 48 p. incl. tables. (North Pacific Planning Project. North Pacific study. [No. 6]) mimeographed.

**Other authors:** J. C. Rettie and G. Sundborg.

Discussion and data (based on figures for 1939-41) on nature and volume of potential air traffic to and from Alaska (and eastern Asia); prospective competition, possible alternatives to uneconomic competition, maintenance and operation of the airway (needs and costs), and air routes. *Appendix* gives estimate of potential air passenger traffic between Alaska and the United States, 1945-49. **Copy seen:** DI.

**MCKINLEY, CHARLES,** *see also* Mirick, S. & others. Feasibility of automobile ferry SE Alaska. 1944. No. 24381.

**MCKINLEY, CHARLES,** *see also* Rettie, J. C. Population trends (etc.) Alaska. 1944. No. 25464.

**MCKINLEY, CHARLES,** *see also* Rettie, J. C., & others. Problems post-war utilization petroleum pipe line. 1944. No. 25465.

**MCKINLEY, CHARLES,** *see also* Sundborg, G., & C. McKinley. Proposal for protection of the minor fisheries of the N. Pacific. 1944. No. 26529.

**24092. MACKINTOSH, N. A.** The natural history of whalebone whales. (In: Smithsonian Institution, Annual report for 1946, *pub.* 1947. p. 235-64, 2 plates, map)

This paper deals with 10 species of whalebone whales (Mystacoceti) from viewpoint of: methods of investigation (anatomical studies in whaling factories, special observations at sea, tagging, analysis of statistics); distribution and migration of separate species, with data on size, appearance, economic value, etc.; food; breeding, growth and age; population and the effect of whaling; future investigations. Bibliography (over 75 items). **Copy seen:** DLC.

**24093. MACKLIN, A. H.** Polar exploration. Some medical aspects, with special

reference to the Antarctic. (Medical press and circular 1939. v. 202, p. 401-406)

*Contains* recommendations of a general nature for surgeons embarking on polar expeditions: medical equipment; food especially locally obtained fresh meat from mammals, birds, fish and molluscs; avoidance of parasitized meat, kinds and quality of game, food preparation; clothing; frostbite, its prevention and cure; the sea voyage to the Antarctic and its requirements; the seasons in the Antarctic and the usual occupations around the year especially in preparation of game stores; advantages of the polar climate from point of view of health.

**Copy seen:** DSG.

**24094. McLACHLAN, ROBERT, 1837-1904.** Bemerkungen über europäische Phryganiden, nebst Beschreibung einiger neuer Genera und Species. (Stettiner entomologische Zeitung, 1867. Bd. 28, no. 1-3, p. 50-63) **Title tr.:** Notes on some European Phryganidae with descriptions of some new genera and species.

*Contains* Latin diagnoses of seven new species of caddis flies of the fam. Phryganeidae, including *Apatania frigida* n. sp., native to Alten in Norwegian Lapland, and to Great Slave Lake in Northwest Territories, with critical notes on some other species. **Copy seen:** MH-Z

**24095. McLACHLAN, ROBERT, 1837-1904.** Report on the Insecta (including Arachnida) collected by Captain Feilden and Mr. Hart between the parallels of 78° and 83° north latitude, during the recent Arctic Expedition. (Linnean Society, London. Journal; Zoology, 1879. v. 14, p. 98-122)

*Contains* introductory notes on circumstances of collecting on northern Ellesmere Island, and the unusual climatic conditions endured by the insects there; followed by annotated lists, with localities of 5 species of Hymenoptera, one beetle, 13 species of butterflies, about 15 species of flies, one Hemiptera, 7 bird lice, 3 springtails, 6 spiders and about 9 species of mites. The collections were made by the British Arctic Expedition under Nares which reached Robeson Channel and Lincoln Sea, wintering at Floeberg Beach 82°25' N. 62° W., and exploring the northern coast of Ellesmere as far west as Cape Alfred Ernest, 82°15' N. 86° W.

An abstract of this paper was published as Appendix no. 6, in Sir G. S. Nares'

*Narrative of a voyage to the polar sea during 1875-6, etc., pub. 1878 (see Arctic Bibliography, No. 12026A). Copy seen: DLC.*

**McLAREN, DIGBY JOHNS, 1919-**, see Harker, P., & D. J. McLaren. *Sciophyllum*, Canadian Arctic. 1950. No. 22428.

**24096. MACLEAN, J. H.** Marine navigation in the Canadian Arctic. Montreal (?) 1951. 7 l. mimeographed.

Contains text of an address presented to the Canadian Institute of Navigation in Montreal, May 29, 1951. Following a brief historical introduction, author sketches methods and aids to marine navigation in normal latitudes, then points out differences in navigating arctic waters: limited hydrographic data, lack of charts; absence of shore-based aids, incomplete sailing directions, uselessness of the magnetic compass, and dependence on gyro compass; limitations on astronomical observations; ice as a factor. Methods and aids in the Arctic; practice in the Arctic is described; use of soundings, importance of radar.

*Copy seen: CaMAI.*

**McLEOD, JAMES ARCHIE, 1904-**, see Wardle, R. A., & others. Lühe's "Diphyllbothrium". 1947. No. 27264.

**24097. MACLURE, KENNETH C.** Air navigation in high latitudes. (Arctic, Dec. 1950. v. 3, p. 192-93)

Brief account of recent experience of U. S. Air Force and Royal Canadian Air Force weather reconnaissance flights to the North Pole, supplementing the basic paper of A. J. Haggard, *Air navigation in high latitudes*, 1950, q. v., based on the *Aries* flights in May 1945. MacLure reports here on: (1) the use of the 180th meridian as reference line, rather than the Greenwich meridian, for grid directions, (2) the use of Pfund sky compass to help overcome hazard of long twilight, and (3) the building of experience with radar returns from land and water.

*Copy seen: DAI; DLC.*

**24098. MacMILLAN, MIRIAM (LOOK).** Far North with "Captain Mac." (National geographic magazine, Oct. 1951. v. 100, p. 465-513, incl. 28 p. of illus., map)

Popular account of the MacMillan Arctic Expedition in the *Bowdoin*, summer 1950, which coasted the Labrador to Cape Chidley, crossed Davis Strait to West Greenland, sailed northward into

Kane Basin, (where pack ice stopped the ship about 79° N. lat.), then returned along the west side of Baffin Bay-Davis Strait. Author reminisces on the numerous (28) earlier trips of her husband, D. B. MacMillan, describes the scenery and historic landmarks along the route and remarks on the Eskimos of Labrador, West and Northwest Greenland, and (in particular) on the MacMillan-Moravian School at Nain.

*Copy seen: DLC.*

**24099. MacMILLAN, WILLIAM.** A forty million dollar crop. (Forest and outdoors, Aug. 1948. v. 44, no. 8, p. 6-7, illus.)

The author states that the U. S. Government realized \$40,000,000 from the Pribilof Islands seal herd between 1912, when it took over control, and 1945. During this period the herd grew from 125,000 to 3,600,000 head. A brief description is given of this seal (*Otoca alascanus*), its fur, migrations, "harems", and commercial utilization.

*Copy seen: DA.*

**24100. MacMILLAN, WILLIAM.** Is the sea-otter coming back? (Forest and outdoors, July 1949. v. 45, no. 6, p. 18-19, 22, illus.)

Contains a history of the gradual decimation of this most valuable fur animal which occurs from the Bering Sea to California; protective measures of the U. S. A. and lack of such measures in Canada; indifference of the fur industry; description of the sea-otter, its food, reproduction, young. An appeal to save the animal from extinction closes the article.

*Copy seen: DA.*

**24101. MacMILLAN, WILLIAM.** Phantom giants of the far North. (Forest and outdoors, 1944. v. 40, p. 253-54, illus.)

Author stresses polar exploration, especially by airplane, as having revealed much about the polar bear. He offers data on: the size and weight of the animal, hibernation of the female, reproduction, swimming, resistance to cold (fur with air-spaces, oil glands and a fat layer under the skin); some anatomical peculiarities and its life in captivity.

*Copy seen: DA.*

**24102. MacMILLAN, WILLIAM.** The wolverine is going, going. (Forest and outdoors, Sept. 1949. v. 45, no. 9, p. 13, 26, illus.)

Contains information about the near-

ing extinction of this animal; its relationship with the weasels; its appearance, fur, habits and man's attitude, prejudices, etc., towards this species.

*Copy seen:* DA.

**24103. McMILLION, SHELBY A.** The strategic route to Alaska. (Military engineer, Nov. 1942. v. 34, p. 546-53, illus., 2 maps)

Notes on history of proposals for an Alaska highway, progress on an international plan, the alternative routes and final decision, construction and supply problems, and the direction and personnel involved in building the Alaska Highway.

*Copy seen:* DLC.

**24104. McMINIMY, DONALD J.** Preliminary report on tuberculosis incidence in Alaska. (Alaska's health 1947. v. 5, no. 10, p. 4-5, table)

Report based on an x-ray survey of over 15,000 people, made during 1946 and first half of 1947 with the aid of the motor ship *Hygiene*, a mobile-truck unit and a portable photo-roentgen outfit. The methods applied are given and the results tabulated according to stage of disease and race (White, Indian, Aleut, Eskimo). An analysis and discussion of the findings follows. *Copy seen:* DSG.

**McNAIR, ANDREW HAMILTON, 1909-**, see Kurtz, V. E., & others. Stratigraphy Dundas Harbour area. 1950. No. 23550.

**McNAIR, ANDREW HAMILTON, 1909-**, see also Kurtz, V. E., & others. Stratigraphy Dundas Harbour area. 1952. No. 23549.

**24105. MacNEISH, RICHARD S.** An archaeological reconnaissance in the Northwest Territories. (Canada. National Museum. Bulletin 123, its Annual report for 1949-50, pub. 1951, p. 24-41, 8 plates incl. map, table)

Contains results of a summer 1949 trip to discover the culture complexes and their sequences in Great Bear, Great Slave Lakes, Mackenzie River, and Lake Athabasca environs. The itinerary (9000 miles) is outlined, sites (40) characterized, and the collected material analyzed. The specimens, (225 artifacts) mainly surface finds, indicate the existence of four cultural complexes in the general area, the oldest (perhaps 7000 years) the youngest extending almost to historic time. Excavations in the Mackenzie drainage and eastward are called for.

Knowledge of the area at present is too scant for application to problem of immigration of man and diffusion of culture from Asia into America.

*Copy seen:* DLC.

**MACPHERSON, A. H.,** see Manning, T. H., & A. H. Macpherson. Birds E. James Bay. 1952. No. 24163.

**24106. MacRITCHIE, DAVID, 1851-** Images and idols, Lapps and Samoyeds. (In: Hastings, James, ed. Encyclopaedia of religion and ethics, 1915. v. 7, p. 148-50)

Contains discussion suggesting that the worship of idols and images made of wood and stone was common at one time to all the Ugrian races occupying the arctic regions of the Eurasian continent.

*Copy seen:* DLC; INU.

**24107. MADDOCK, CHARLOTTE L., and others.** Hypervitaminosis A in the dog. (Journal of nutrition, Sept. 1949. v. 99, p. 117-37, 6 fig. on 3 plates) Other authors: S. B. Wolbach and S. Maddock.

Contains a report of experiments, the first of this kind, with dogs, administered 300,000 I. U. of the vitamin per kg. daily. The animals responded with loss of appetite and weight, characteristic skeleton changes, hyperesthesia and exophthalmos; laboratory tests indicated a marked increase of vitamin A in the blood and a late drop in blood lipids. Bibliography (39 items).

*Copy seen:* DLC.

**MADDOCK, STEPHEN,** see Maddock, C. L., & others. Hypervitaminosis A in dog. 1949. No. 24107.

**24108. MADDOCK, WALTER G., and F. A. COLLIER.** The rôle of the extremities in the dissipation of heat. (American journal of physiology, Dec. 1933. v. 106, p. 589-96, 5 fig.)

Contains a study showing a close connection between the temperature of the extremities and their heat dissipating mechanism; increasing environmental temperature or increasing heat production caused much greater shifts of blood to the integument of the extremities, than to that of the head or trunk. Bibliography (21 items).

*Copy seen:* DLC.

**24109. MADSEN, HARRY, and C. VIBE.** Den grønlandske havørn (*Haliaeetus albicilla groenlandicus* Brehm) og dens føde. (Dansk ornithologisk forening.

Tidskrift, Sept. 1950. Aarg. 44, p. 140-47, illus.) **Title tr.:** The Greenland white-tailed eagle (*Haliaeetus albicilla groenlandicus* Brehm) and its food.

Results of an inquiry occasioned by sheep-raisers in West Greenland showed these eagles to be on the decline; to take only dead or diseased lambs, and to feed for the most part on other animals. Summary in English.

**Copy seen:** DSI-M.

**24110. MÄKIPURO, VILJO.** Sisu shown by gold-diggers in Lapland. (Finlandia pictorial, May 1951. v. 6, no. 5, p. 14, illus.)

Notes and illustrations in the transportation of a 6½-ton digging machine (Åckermen 200) from Inari to the Lemmen River gold fields in Lapland. The machine was transported by truck and timber-sledge with a State Geologic Survey trackmobile as snowplow. "Sisu" is Finnish term for the combination of courage, stamina and skill in the men who did the job.

**Copy seen:** DLC.

**24111. MAGAZANIK, G. L.** Fizicheskaia terapiia otmorozhenii. (Sovetskii vrachebnyi zhurnal, 1940, no. 12, col. 830-44) **Title tr.:** Physical therapy of frostbite.

Contains an account of the aims of physical therapy in frostbite; on massage, hydro- and aero-therapy, electrotherapy and irradiation and their value in frostbite of first to third degree. Their use in sequelae is also dealt with.

**Copy seen:** DLC.

**24112. MAGNUSSON, ADOLF HUGO, 1885-** . Key to the species of *Lecidea* in Scandinavia and Finland I. Saxicolous species. (Svensk botanisk tidskrift, 1952. Bd. 46, häft. 2, p. 178-98)

Contains a key to Scandinavian and Finnish species of the lichen genus *Lecidea* with very brief data on distribution, including some species native to Swedish and Finnish Lapland.

**Copy seen:** MH-A.

**24113. MAGNUSSON, ADOLF HUGO, 1885-** . Lichens from Torne Lappmark. (Arkiv för botanik, 1952. Ser. 2, Bd. 2, p. 45-249, illus., sketch maps)

Contains a systematic description of 790 species of lichens from the northernmost part of Sweden (67°40'-69°N. 18°-23°E.) preceded by general notes on ecologic conditions of the district as a whole. 29 species and 12 varieties or

forms are indicated as new to science and 56 species as not previously recorded from Sweden. Notes to the keys and list of species (p. 54-249) with keys, Latin diagnoses, and English descriptions of new species, localities and data on habitat are presented.

**Copy seen:** DGS; MH.

**24114. MAGNUSSON, ADOLF HUGO, 1885-** . A monograph of the lichen genus *Ionaspis*. (Göteborg, Sweden. Botaniska trädgård. Meddelanden, 1933. t. 8, p. 1-47)

Contains a monographic treatment of the lichen genus *Ionaspis*, with a morphological study, a key and descriptions of 17 species (three new) and some varieties and forms (five varieties and five forms new); some species have circumpolar distribution and are found in all arctic regions.

**Copy seen:** DSI-M; MH-A.

**24115. MAGNUSSON, ADOLF HUGO, 1885-** . New crustaceous lichen species from North America. (Göteborg, Sweden. Botaniska trädgård. Meddelanden, 1952. t. 19, no. 2, p. 31-49, illus., plate 1)

Contains Latin diagnoses and English descriptions of 18 new species of crustaceous lichens from various regions of North America, including *Lecidea baffiniana* and *Lecanora superfluens* n. spp. native to Baffin Island.

**Copy seen:** MH-A.

**24116. MAGNUSSON, ADOLF HUGO, 1885-** . New or otherwise interesting Swedish lichens XIV. (Botanica notiser, 1951. häfte 1, p. 64-82)

Contains descriptions of 15 new or noteworthy Swedish lichens, including *Ephebeia hispidula* from Swedish and Finnish Lapland and from Nordland in Norway, *Pyrenopsidium iivaarensense*, from Torne Lappmark and Nordland, and *Lecidea (Biatora) subfuscescens*, native to Finnmark, northern Norway.

**Copy seen:** DLC; MH-A.

**24117. MAGNUSSON, ADOLF HUGO, 1885-** . Studies in species of *Lecanora*, mainly the *Aspicilia gibbosa* group. Stockholm, Almqvist & Wiksell, 1939. 182 p. illus. (Svenska vetenskaps-akademi, Oslo. Handlingar, ser. 3, bd. 17, no. 5)

Contains a critical revision of the lichen group *Lecanora gibbosa* (subgenus *Aspicilia*), with a general account of the species (taxonomy, morphology, anatomy,

pycnidia, ecology and distribution). There follow (p. 21-175) keys to the species, varieties and forms, descriptions of 114 species of which 48 and some varieties and forms are described as new. Many of the species are native to northern Scandinavia, Russia, Novaya Zemlya (25), Spitsbergen (6), Bjørnøya (4), Greenland (14), and Ellesmere Island (3).

**Copy seen:** MH-Z.

**24118. MAGNUSSON, ADOLF HUGO, 1885-**. Studies in the *ferruginea*-group of the genus *Caloplaca*. Göteborg, Wettergren & Kerbersforl., 1944. 71 p. (Göteborgs K. vetenskaps- och vitterhets-samhälle, Gothenburg. Handlingar. 6 foljden, Ser. B, Bd. 3, no. 1)

*Contains* a critical survey of the lichen species *Caloplaca ferruginea*, its varieties and related species, all characterized by more or less ferrugineous apothecia, with data on morphology, chemical reactions, habitat, distribution, a key to the species (p. 15-17); descriptions of 33 species (including 11 new ones) with synonymy, Latin diagnoses of the new species, exsiccata, critical notes and data on distribution. Includes at least 23 species, native to northern regions (Lapland, Bjørnøya, Svalbard, Greenland, Labrador, northern European Russia and Siberia).

**Copy seen:** MH-Z.

**MAGOUN, H. W.,** *see* Clark, G., & others. Temperature regulation in cats with thalamic lesions. 1939. No. 21229.

**MAIKOV, L.,** *see* Novitskiĭ, G. I. Kratkoe opisaniye o narodie ostiaŭskom v 1715. 1884. No. 24746.

**MAĬNOV, I. I.,** *see* Khoroshikh, P. P. Issled. Ĭkutii. 1925. No. 23238.

**24119. MAIRE, EDWARD D.** Paroxysmal hemoglobinuria due to the cold hemolysin; observations with a report of a case of its occurrence in an aerial gunner. (Archives of internal medicine, Nov.-Dec. 1945. v. 76, p. 292-98, 3 fig., 2 tables)

*Contains* a report of a case, with probable syphilis, who was exposed to an attack when flying at low temperature and then again under experimental conditions. Transient benefit was noted with alkalization of the urine with sodium bicarbonate; a course of oxophenarsine hydrochloride and bismuth subsalicylate cured the disease; previous

work on this disease and some theoretical considerations are presented.

**Copy seen:** DLC.

**24120. MAISON, GEORGE LOUIS, 1911-**, and H. O. HATERIUS. Terminal changes in cardiac activity and in respiration in death from severe hypothermia. (Federation proceedings, Mar. 1947. v. 6, p. 162) Abstract of observations on dog in laboratory-controlled ice-water immersion experiments.

**Copy seen:** DLC.

**MAISON, GEORGE LOUIS, 1911-**, *see also* Haterius, H. O., & G. L. Maison. Observations hypothermia in dog. 1947. No. 22466.

**MAJOR, HAROLD, 1918-**, *see* Polar-årbooken. Norsk Polarinstitutt. 1951. No. 25177.

**24121. MAKAROV, STEPAN OSIPOVICH, 1848-1904.** S. O. Makarov i zavoevanie Arktiki. "Ermak" vo l'dakh. Materialy i dokumenty o S. O. Makarove i ledokole "Ermak". [Sostavitel' sbornika D. A. Levonevskii] Leningrad, Izd-vo Glavsevmorputi, 1943. 332 p., illus., ports., map. **Title tr.:** S. O. Makarov and the conquest of the Arctic. The *Ermak* in the ice fields. Materials and documents on S. O. Makarov and ice-breaker *Ermak* [D. A. Levonevskii, editor].

*Contains* a selection of Admiral Makarov's works along with papers by the editor and others on his life and achievements in the following parts (titles translated and contents indicated):

1. Levonevskii, D. A., S. O. Makarov as an arctic explorer, p. 5-39. Biographical sketch stressing Makarov's achievements in arctic exploration; project to build a great ice-breaker supported by S. Ŭ. Vitte and D. I. Mendeleev; construction of the *Ermak*; its first successful tests in the Baltic Sea (spring 1899); plans for an arctic expedition; D. I. Mendeleev's refusal to participate; first and second arctic trips of the *Ermak* under command of S. O. Makarov in 1899 and in 1901, its failure to navigate through ice-covered arctic seas; removal of S. O. Makarov from command and transfer of the *Ermak* to service in the Baltic Sea.

2. Makarov, S. O. The *Ermak* in the ice fields, p. 41-162. Abridged reprint of Makarov's book "*Ermak*" vo l'dakh, 1901 (*see Arctic Bibliography*, No. 10759).

In the first part, chapter 2 by F. F. Vrangeli is omitted, also some technical details; from the second part only two articles by Makarov are reprinted, all articles by other authors are omitted.

3. Makarov, S. O. Navigation of the *Ermak* to Novaya Zemlya and Franz Josef Land in 1901, p. 163-86. Unpublished and unfinished account of the second arctic trip of the *Ermak* under Makarov's command; the tasks of expedition; its preparation, equipment, personnel; encounter with the ice of Barents Sea; the *Ermak* caught in the ice fields faces wintering in the Arctic; liberation and short trip to Novaya Zemlya (Krestovaya Guba); suggestions for some improvements in the construction of ice-breaker.

4. Makarov, S. O. Hydrographic photogrammetric surveying of the coasts of Novaya Zemlya, p. 183-86. Description of the survey work in the region of Krestovaya Guba, carried out during the second arctic trip of the *Ermak*, Aug. 22-29, 1901, using photogrammetric methods, with some technical remarks on instruments and method of work.

5. Veber, V. N. Diary, p. 187-92. Daily notes of the geologist of the second arctic trip of the *Ermak*, dated July 3-Aug. 30, 1901; describing the main events in this period, and supplementing the paper of S. O. Makarov.

6. Neupokoev, V. K. Notes on the study of marine ice, p. 193-97. Notes on the marine ice of Barents Sea along the route of the *Ermak* during its second arctic trip, July 6-Aug. 22, 1901; characteristics of the ice-fields, torosses, and icebergs met on the trip.

7. Makarov, S. O. Influence of ice-breakers on naval war operations, p. 198-202. Lecture delivered Dec. 4, 1899, before the Society Promoting War Sciences, stressing the importance of ice-breakers for naval offensive and defensive operations, especially in the Baltic Sea; the general part of the lecture, included in the paper "*Ermak*" *vo l'dakh*, is omitted here.

8. Materials and documents on S. O. Makarov and the ice-breaker *Ermak*, in two parts:

Levonevskii, D. A. Chronological survey, p. 205-317. Collection of documents and extracts or summaries of books, articles, letters, reports, memoranda and surveys concerning the origin of the idea, construction, equipment, voyages and achievements of the

*Ermak*, arranged in chronological order for each year 1897-1940; a summary of the *Ermak's* 40-year service (p. 315) shows not less than 3000 ships convoyed through ice.

Levonevskii, D. A. Bibliography, p. 318-28. Lists of publications of S. O. Makarov (49 items), also articles, etc., concerning Makarov or the *Ermak* (203 items) and survey of materials in archives.

Reviewed by A. F. Laktionov in *Problemy Arktiki* 1944, pub. 1945, no. 2, p. 123-26 (copy in DGS).

**Copy seen:** DLC.

**MAKAROV, V. G.,** see Smekhov, E. M., & V. G. Makarov. O netenosnosti Kamchatki. 1946. No. 26265.

**24122. MAKAROV, V. V. K** fauna Sipunculida, Echiurida i Priapulida dal'nevostochnykh morei. (In: U.S.S.R. Zoologicheskii institut. Issledovaniia dal'nevostochnykh morei, vyp. 2, 1950. p. 239-47) **Title tr.:** Contribution to the fauna of Sipunculida, Echiurida and Priapulida of the Far Eastern seas.

Contains account of worms collected in 1926-33 in the Okhotsk and Bering Seas, on the eastern Kamchatkan shores, etc. 18 species are described, one of them new to science. Location of finds and geographical distribution are given. Bibliography (16 items). **Copy seen:** DLC.

**24123. MAKAROV, I. A.** Mineral'nye istochniki Dal'nevostochnogo Kraia. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1938. No. 28 (1) p. 3-36) **Title tr.:** Mineral springs of the Far Eastern Region.

Contains a study of cold and hot mineral springs of the Far East, with data on the temperature, salinity and chemical content; includes 69 mineral springs (including two cold ones) of the Kamchatka Peninsula; bibliography (45 items). **Copy seen:** DLC; MH-A.

**24124. MAKSIMOV, A.** Eskimosy. (In: Bol'shaya Sovetskaya Entsiklopediia, 1926-47. v. 64, col. 632-34) **Title tr.:** The Eskimos.

Brief and informative account of this arctic people (30,000), living in the northern coastal regions of Labrador, Greenland, Canada, Alaska, and on the Bering coast of Asia; their social origin, and material culture; physical characteristics; primitive beliefs; the angekok and shaman; Eskimo clothing, tents,

huts and snowhouses; kayaks, fishing and hunting; primitive weapons and implements; their wild reindeer and sledge dog transport; the "new era": class stratification due to the seacoast industry and capitalistic methods; their laws, education and schools. **Copy seen:** DLC.

**24125. MAKSIMOV, A. A.** O migratsii pestsa na severe Evropeiskoi chasti SSSR. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten' 1945. Otdel. biol. Novaiâ seriâ. t. 50, vyp. 5-6, p. 45-61, text map, diagrs.) **Title tr.:** On the migration of the arctic fox in the northern European part of U.S.S.R.

*Contains a study of seasonal and mass migration of *Alopex lagopus* in Arkhangel'sk province, based mostly on an investigation of mass migration in the winter of 1937-38, with diagrams of cyclic fluctuation for various geographic regions; ecological, geographic and climatic factors influencing the migration of arctic foxes and lemmings are discussed. Summary in French.*

**Copy seen:** DLC; MH-Z.

**24126. MAKSIMOV, I. V.** K opredeleniû porâdkovoi velichiny godovogo stoka vod Tikhogo okeana v Severnyi Ledovityi okean cherez Beringov proliv. (Problemy Arktiki, 1944, pub. 1945, no. 2, p. 51-58, tables, diagrs. sketch maps) **Title tr.:** On the determination of the relative volume of the annual flow of Pacific waters to the Arctic Ocean through Bering Strait.

On the basis of observations of more than 70 stations, working at various times during 1925-39 and at various points in Bering Strait, the author estimates the annual mass of water flowing from Pacific into the Arctic Basin as being 25 times less than that of the Gulf Stream. **Copy seen:** DGS.

**24127. MAKSIMOV, I. V.** O perspektivakh ispol'zovaniâ dannykh po prilivotlivnym kolebaniâm urovniâ moriâ dlia otsenki srednei ledovitosti morei Severnogo morskogo puti. (Problemy Arktiki, 1944, pub. 1945, no. 1, p. 56-63, diagr., map) **Title tr.:** On the prospects of using the data of tidal changes of the sea-level for estimating the average ice conditions in the seas of the Northern Sea Route.

The tidal waves of the arctic sea, moving from north to south, suffer deformation by the ice in the seas off the Asiatic coast, hence the changes in the

structure of these waves may be regarded as an indicator of ice conditions (ice masses) in these seas. This statement is illustrated by observations of tidal waves in Tiksi Bay in relation to ice conditions of Laptev Sea, and the author establishes principles of "ice-tides reconnaissance," p. 61. **Copy seen:** DGS.

**MAKSIMOV, O. B.,** see Belopol'skii, M. P., & O. B. Maksimov. K izucheniiu pechenochnykh zhirov treski. 1936. No. 20559.

**MAKSIMOV, O. B.,** see also Belopol'skii, M. P., & O. B. Maksimov. Kitovye zhiry. 1934. No. 20560.

**24128. MAKSIMOV, S. V., and I. A. S. SMELKOV.** Fiziologicheskie kolebaniâ temperatury konechnostei i ikh znachenie dlia profilaktiki otmorozhenii. (Voenno-meditsinskii zhurnal, Apr.-May 1946, no. 4-5, p. 23-28) **Title tr.:** Physiological fluctuations of temperature in the extremities and their significance for the prevention of frostbite.

*Contains an account of temperature fluctuations of the upper and lower extremities between breakfast and lunch, as affected by meals, by drinking tea or hot water, by warming the abdomen; also, the effect of warming or moving one extremity on the temperature fluctuations of the other extremities. Practical recommendations are made for use in the field, on the basis of these observations. Bibliography (4 items).*

**Copy seen:** DLC.

**24129. MAKSIMOV, V. M.** O stratigrafii ñurskikh otlozhenii okrestnostei Iakutskâ. (Akademiâ nauk SSSR. Izvestiâ. Seriiâ geologicheskaiâ, 1941, no. 6, p. 16-26, illus.) **Title tr.:** On the stratigraphy of the Jurassic deposits in the environs of the town of Yakutsk.

*Contains a review of data (since 1912) on the Jurassic deposits of the Yakutsk-Vilyuy depression; with presentation of new data on such deposits in the vicinity of Yakutsk, enabling the author to change somewhat the conception of the geological age of the marine series of that region and to synchronize its geological history with that of the Vilyuy River and some more northerly districts (Anabar). Summary in English.*

**Copy seen:** MH.

**24130. MAKSIMOVICH, G. A.** Gidrokhimicheskie faâsii vod ozer (i morei). (Akademiâ nauk SSSR. Izvestiâ. Seriiâ

geograficheskaya i geofizicheskaya, 1944. t. 8, no. 4, p. 212-25, illus.) *Title tr.*: Hydrochemical facies of lake (and sea) waters.

*Contains* a study of 43 hydrochemical facies of 216 lakes of all continents and a few seas, including the Arctic Ocean and the White Sea, based on the results of 579 chemical analyses, and a division of those facies into six zones (see map on p. 220), a bibliography (104 items). Summary in English. *Copy seen*: MH.

**2131. MAKSIMOVICH, G. A.** Klassifikatsiya l'dov pesheer. (Akademiya nauk SSSR. Izvestiya. Seriya geograficheskaya i geofizicheskaya, 1945. t. 9, no. 5-6, p. 565-70) *Title tr.*: Classification of the ice in ice-caves.

*Contains* data on the ice-caves in the various regions of the U.S.S.R., including some in northern European Russia and Siberia (Yakut A.S.S.R.); discussion on methods of the ice classification based mostly on structure. "Cave ice may be divided into four classes: atmogenic, hydrogenous, anthropogenic and heterogenic. Atmogenic or sublimation ice is found in all caves. The crystals vary in configuration and form on the walls of the cave. The salinity of atmogenic ice ranges from 0.1 to 5.0 per cent. Hydrogenous ice usually forms as stalactites and stalagmites. Heterogenic cave ice refers to surface ice which may fill caves and tunnels. Anthropogenic ice is man-made and forms on the walls of cold storage caves. The distribution of caves in which the various types of ice were observed is discussed."—SIPRE. Bibliography (90 items).

*Copy seen*: DLC; MH

**2132. MAKSIMOVICH, G. A.** Porosit' de la cryosphère. (Akademiya nauk SSSR. Comptes rendus (Doklady), 1946. nouv. ser., v. 51, no. 2, p. 119-22, tables) *Title tr.*: Porosity of the cryosphere.

*A study* on the porosity of various kinds of ice found in nature (glacier ice, sea ice, etc.).

*Copy seen*: DLC.

**2133. MAKUSHOK, M. E.** Materialy dlya kharakteristiki murmanskoj sel'di. (Russkij zoologicheskij zhurnal, 1928. t. 8, vyp. 3, p. 39-68; vyp. 4, p. 41-88) *Title tr.*: Materials on the characteristics of Murman herring.

*Contains* the results of the author's investigation of herrings of the Murman waters (Barents Sea) carried out in the Kola Bay in 1922, with data on the time

of mass appearance of herrings in these waters; analysis of the age, sex content, maturity, dimensions and external characteristics; and comparison with Norwegian and Iceland herrings; numerous tables. Summary in German.

*Copy seen*: DLC; MH-Z.

**2134. MALAISE, RENÉ EDMOND, 1892-** Beiträge zur Kenntnis schwedischer Blattwespen. (Entomologisk tidskrift, 1920, pub. 1921. Årg. 41, häft. 2-4, p. 97-128, illus.; 1921. Årg. 42, häft. 1, p. 1-20, illus.) *Title tr.*: A contribution to the knowledge of Swedish sawflies.

*Contains* critical notes on about 100 species of Swedish sawflies, including descriptions of one new genus and 30 new species and varieties, with data on larvae and their host plants; the study is based mostly on material from Swedish Lapland.

*Copy seen*: DLC; MH-Z.

**2135. MALAISE, RENÉ EDMOND, 1892-** Blattwespen aus Wladiwostok und andere Teilen Ostasiens. (Entomologisk tidskrift, 1931. Årg. 52, häft. 2, p. 98-159, illus.) *Title tr.*: Sawflies from Vladivostok and some other parts of eastern Asia.

*Contains* descriptions of many sawflies collected by the author in 1930 in the vicinity of Vladivostok, and of some other collections from inland China, Japan and Kurile Islands; with the tables for the determination of species, German diagnoses of several new species, critical notes and data on geographic distribution; the keys include a few species from the Kamchatka Peninsula.

*Copy seen*: DA; MH-Z.

**2136. MALAISE, RENÉ EDMOND, 1892-** A new genus and synonymical notes on Tenthredinoidea. (Entomologisk tidskrift, 1933. Årg. 54, häft. 1, p. 50-59, illus.)

*Contains* a comparative taxonomic study of various genera of the superfamily Tenthredinoidea (sawflies), including genus *Aglaostigma* (genotype *A. nicea* var. *eburneiguttata*) occurring in Kamchatka Peninsula.

*Copy seen*: DA; MH-Z.

**2137. MAILAISE, RENÉ EDMOND, 1892-** Über einige wenig bekannte Tenthrediniden. (Entomologisk tidskrift, 1931. Årg. 52, häft 1, p. 88-90, illus.) *Title tr.*: On some little known Tenthredinidae.

*Contains* critical notes on five little known species of sawflies, including *Sciapteryx arctica* and *Emphytus calliblepharus* f. *togatus* from Abisko region, Swedish Lapland.

**Copy seen:** DA; MH-Z.

**MALAKHOV, A. A.,** see Samoilovich, R. L., & others. *Geografiā Arktiki*. 1937. No. 25812.

**24138. MALAURIE, JEAN-NOËL.** La baie de Disko, côte ouest du Groenland; notes de géographie physique et humaine. (Association de géographes française. Bulletin, Jan-Fév. 1950. no. 206-207, p. 12-21, illus.) **Title tr.:** Disko Bay, west coast of Greenland; notes on physical and human geography.

*Contains* observations made in course of the French Arctic Expedition under P. E. Victor in 1949: the Disko Bay area as a regional unity; its physical geography, especially the erosion pattern development of slopes and mechanical weathering of rocks; its human geography, particularly material and cultural standards of the Greenlanders, the sealing economy and the Danish Government's commercial monopoly. Discussion is appended p. 19-21.

**Copy seen:** CaMAI; DGS.

**24139. MALAURIE, JEAN-NOËL.** Sur les premiers résultats d'une mission géographique dans le nord-ouest du Groenland (district de Thulé) 1950-1951. (Académie des Sciences, Paris. Comptes rendus, déc. 3, 1951, t. 233, p. 1472-73, sketch map) **Title tr.:** On the first results of a geographic expedition to the Thule district, northwest Greenland, 1950-1951.

*Contains* a brief note on the author's geomorphologic investigations on both sides of Kane Basin; deals mainly with evidence of an arid type of periglacial action on Inglefield Land, where the relief must have been produced by a mild, humid interior postglacial climate.

Malaurie visited the Thule region July 1950-Aug. 1951, to extend sociological and geomorphological studies made in 1948-49 with Expéditions polaires françaises. His 1950-51 mission is outlined in *Polar record* July 1952, v. 6, no. 44, p. 523.

**Copy seen:** DGS; DLC.

**MALAURIE, JEAN-NOËL,** see also Victor, P. E., & others. Rapport prélim. 1949. 1950. No. 27104.

**24140. MALINIEMI, EINAR.** Päivittäisistä paperipuiden valmistusmääristä eri vuoden aikoina Perä-Pohjolassa. Helsinki, 1933. 14 p., diagrs. (Silva fenica: 29) **Title tr.:** The daily amounts of pulp wood readied in different years in Perä-Pohjola.

An efficiency study on pulp wood production in this northern district of Finland: at Kemijärvi, and Sodankylä on the Kemi River system, and Turtola, Kolari, and Muonio on the Tornio. Summary in German.

**Copy seen:** DLC.

**24141. MALLET, THIERRY.** Exploring the Kazan. (Beaver, June 1950. Outfit 280, no. 4, p. 22-25, illus., sketch map)

Account (by an official of the Revillon Frères fur company) of a five-month trip in 1926 down the Kazan River from its source to its outlet in Baker Lake.

**Copy seen:** DSI-M.

**24142. MALLET, THIERRY.** Glimpses of the Barren Lands. New York, privately printed, Revillon Frères, 1930. 146 p., plates.

*Contains* seven stories, each "a true episode of the far North", by one who spent part of each year for 20 years inspecting the Revillon Frères' fur-trading posts. He relates his traveling and hunting experiences, describes the life and ways of Indians and Eskimos in the Barren Grounds west of Hudson Bay.

**Copy seen:** DLC.

**24143. MALLET, THIERRY.** Plain tales of the North. New York & London, G. P. Putnam's Sons, 1926. 136 p., illus.

Fifty short sketches of hunting, fur-trading and traveling in northern Canada, with anecdotes about persons, Eskimo, Indian and white, who live there.

**Copy seen:** DLC.

**24144. MALLOCH, JOHN RUSSELL, 1875-** . Dipterous insects of the family Anthomyiidae from the Pribilof Islands, Alaska. (In: Hanna, G. D., and others. Insects of the Pribilof Islands, Alaska, 1921. p. 178-82)

*Contains* a description of seven species of flies, four of them new: *Eupagonomyia pribilofensis*, n. sp., *Melanochelia sanctipauli*, n. sp., *M. spinicosta*, n. sp., *M. hirticanda*, n. sp. A new genus, *Eupagonomyia*, is established.

**Copy seen:** DSI-M.

**24145. MALLOCH, JOHN RUSSELL, 1875-** . A new European Anthomyiid

(Diptera). (Notulae entomologicae, 1922. v. 2, no. 3, p. 81-82)

Contains a description of a new anthomyid fly, *Pogonomyia inaequalis* n. sp. collected by Dr. E. Bergroth in the Northern Urals, July 14, among low willows at the snow line.

**Copy seen:** DLC; MH-Z.

**24146. MALMIO, BRUNO.** Über die Feuchtigkeit der Luft in Finnland während der Periode 1898-1907. Helsinki, 1914. 59 p., 7 plates (5 maps, 2 diagrs.), tables. (Suomalainen tiedeakatemia. Annales Academiae scientiarum fennicae, A5:7) **Title tr.:** On the humidity of the air in Finland during the period 1898-1907.

Contains report based on observations made at 41 stations located 59°-69° N. in Norway, Sweden, Finland and Russia, including five (Sodankylä, Inari, Sydva-ranger, Teriberka and Kola) north of the Arctic Circle. Data on distribution in January and July, annual means, distribution, annual course, deviations from monthly means and extreme values of annual means are given.

**Copy seen:** DLC.

**24147. MALOV, FED.** Novoe na Enisee. (Vokrug sveta, Oct. 1952. no. 10, p. 46-51, illus) **Title tr.:** New develop-ments on the Yenisey.

Contains an account of the advances in fruit growing, apiculture and fisheries in the subarctic and several arctic localities in the Yenisey valley. Apples and several kinds of berries grown at the experimental station of Yarfsevo (60° N.) are claimed to have been pushed north along the lower Yenisey and its tributaries to Igarka and even to Medvezhiy Ostrov, opposite Igarka. Bees, introduced primarily for pollination are claimed to have produced small amounts of honey as far north as the Taymyr tundra. In fresh-water fisheries, air transport becomes of great value for the development of isolated or hitherto inaccessible areas.

**Copy seen:** DLC.

**MALOVA, V. G.,** see Nekrasova, V. L. Rastitel'noe syr'e dlia shchetochnogo proizvodstva. 1949. No. 24605.

**MALOVICHKO, A.,** see Sedlet'skii, I., & A. Malovichko. Role of minerals in ground freezing. 1945. No. 26009.

**MALOVICHKO, A.,** see also Sedlet'skii, I., & others. X-ray studies of ground freezing. 1945. No. 26010.

**24148. MALYSHEV, V. I.** Belka na Kamchatke. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1936. no. 18, p. 171-74) **Title tr.:** The squirrel on Kamchatka Peninsula.

Contains data on the squirrel's distribution, spreading and routes of migration on Kamchatka. This animal is a newcomer to that region, moving from the Penzhina, Olutorskii and Tigil'sk regions. Comparative statistical data are given on the animals killed.

**Copy seen:** DLC; MH-Z.

**24149. MALYSHEVA, A. E.** Okhlazhdenie organizma pri mestnom deistvii kholodnykh poverkhnostei. (Gigiena i sanitariia, 1950. no. 2, p. 22-26, tables, diagrs.) **Title tr.:** Cooling of the organism through local activity of cold surfaces.

Contains a study on the effects of cold surfaces (walls) on four male subjects, aged 18-24 years, with the upper part of their bodies unclothed and their backs at a distance of 10 cm. from a cold wall; this procedure caused a drop in temperature of the exposed part and also of the skin of the nose, hands, fingers, toes and of the mucosa of the nose.

**Copy seen:** DLC.

**24150. MALYSHEVA, A. E.** Radiatsionnoe okhlazhdenie cheloveka i zashchitnaia rol' odezhdy. (Gigiena i sanitariia, 1951. no. 4, p. 24-30) **Title tr.:** Cooling of the body through radiation and the protective role of clothing.

Contains a study on heat loss by radiation, in various kinds of clothing. Fabrics having a high coefficient of reflection toward infrared rays, and, for the protective layers between layers of fabric-aluminum foil, are recommended.

**Copy seen:** DLC.

**24151. MANDEL, WILLIAM.** Some notes on the Soviet Arctic during the past decade. (Arctic, Apr. 1950. v. 3, p. 55-62, sketch map)

General survey, based largely on Russian publications, of new development and reconstruction during and after World War II in transportation, scientific work, and industrial activities, with notes on the Northern Sea Route Administration and its jurisdiction.

**Copy seen:** DAI; DLC.

**24152. MANDEL, KARL.** *Cicindela silvatica* L. und ihre Rassen. Vorarbeiten für eine monographische Neubearbeitung der

paläarktischen Cicindelen. (Koleopterologische Rundschau, 1938, pub. 1937. Bd. 23, no. 4-5, p. 136-40, illus., text map) **Title tr.:** *Cicindela silvatica* L. and its races. A preliminary contribution to a monographic revision of palaearctic species of *Cicindela*.

Contains a study of geographic races of a beetle, *Cicindela silvatica*, including *C. silvatica silvatica* native to Swedish Lapland and to Kuusamo in northern Finland. **Copy seen:** MH-Z.

**24153. MANKER, ERNST MAURITZ, 1893-** . Menschen und Götter in Lappland. Zürich, Conzett & Huber, 1950. 217 p., 64 illus. on 32 plates, map. **Title tr.:** Men and gods in Lapland.

Translated and selected from the author's *Markens gudar* 1948 and *Markens människor*, 1944 (*Arctic Bibliography*, No. 10856-10857)

Contains an account of the origin and historical traces of the Lapps, their life with reindeer herds, culture and art, life in winter quarters, life in a Sarek village, the old people and their place in family and society, religion, a trip through the Rautas valley, etc. Richly illustrated from photographs showing Lappish physical types and costumes and activities, reindeer herds, landscape, etc.

**Copy seen:** DLC.

**24154. MANKER, ERNST MAURITZ, 1893-** . Neuere Funde von Lappentrommeln. (Ethnos, Stockholm, 1936. Bd. 1, no. 4, p. 73-80, 5 illus.) **Title tr.:** The more recent discoveries of the Lapps' drums.

Contains description of drums which are preserved in museums and collections in Sweden. **Copy seen:** DSI-M; InU.

**24155. MANKER, ERNST MAURITZ, 1893-** . Skum, ein lappischer Künstler. (Ethnos, Stockholm, 1937. v. 2, no. 4, p. 208-217, 6 illus.) **Title tr.:** Skum, a Lappish painter.

Contains description and evaluation of the art work of a native Lapp, Nils Nilsson Skum from Gällivare in Sweden, who at that time (1937) was about 65 years old, and had made some hundred pencil and pastel drawings. Skum, living the ancestral nomadic life, was a self-taught artist. Manker notes the ethnological and esthetic value of these sketches and paintings, five of which are reproduced here. A monographic study of Skum and his work is planned. Six other of Skum's paintings are reproduced with

K. B. Wiklund's article *Untersuchungen über die älteste Geschichte der Lappen*, . . . 1938, q. v., (plates 10-12).

**Copy seen:** DSI-M; InU.

**24156. MANKER, ERNST MAURITZ, 1893-** . The study of preservation of the ancient Lapp culture: Sweden's contribution since 1939. (Man, 1947. v. 47, p. 98-100)

During the war period, Swedish investigation of Lapp culture was more intensive than ever before. A body of some 50 informants, representative of all Lapp communities was attached to the Lapp Department of Nordiska Museet in Stockholm, of which the author is curator. Questionnaires concerning both the material side of Lapp culture and certain traits on the social and psychological side were sent to those informants, and results were obtained above all expectation. A study of language and folklore has been started under supervision of Prof. B. Collinder, an expedition, equipped with recording machines, visiting market centers and other localities, has recorded much of the Lappish folklore. A Lapp open-air museum at Tärnaby is expected to be completed in 1947. New Lapp collections have been organized at the museums in Gothenburg and Umeå, and new publications *Acta Lapponica* and others launched. In many quarters the Lapps have kept their ancient culture almost intact, though in most cases they are eager to try out the modern improvements from "outside." It is now quite normal for a Lapp family to have a fixed dwelling, a farm consisting of modern buildings where part of the family lives all the year round, while only the actual reindeer-herders, properly equipped, follow the herds. **Copy seen:** DLC; InU.

**24157. MANKER, ERNST MAURITZ, 1893-** . Swedish contributions to Lapp ethnography. (Royal anthropological Institute of Great Britain and Ireland. Journal, 1952. v. 82, pt. 1, p. 39-54, map on plate)

Contains review of research done in the 17th and 18th centuries; outline of the debate since mid-19th century, on the origin of the Lapps. The extensive investigations of material culture: domestication of reindeer, dwellings, sleds and skis are summarized. Study of social and spiritual culture (less extensive) is outlined and current work noted. An extensive bibliography of research papers

is appended. Map shows the pasture areas of Lapp communities.

**Copy seen:** DSI.

**24158. MANNERMAA, K. H.,** Suomen-maan korkeussuhteet. (Terra, 1915. 27, p. 39-66, plate, illus., tables) **Title tr.:** Elevations in Finland.

*Contains* data on places in northern Finland (among other localities) where accurate altitude mapping had been done by 1914, and on methods used.

**Copy seen:** DLC.

**24159. MANNINEN, ILMARI, 1894-1935.** Die dämonischen Krankheiten im finnischen Volksglauben; vergleichende volksmedizinische Untersuchung. Helsinki, Suomalainen tiedeakatemia, 1922. 253 p. (Folklore Fellows, communications no. 45) **Title tr.:** The demonic diseases in Finnish folk beliefs; a comparative study in folk medicine.

*Contains* analysis of the folk beliefs relating to disease chiefly among the recent Finns with, however, many comparative references to the similar attitudes and practices among the Lapps, Ostyaks, Voguls, Zyryans and Indo-European peoples. Diseases, according to these folk beliefs, can be caused by the dead, by spirits living in the earth, forest and water; by the wind and fire; by the spirits living in the household and bathhouse; by the special disease demons which cause the pests, smallpox and undulant fever; by the demonic possession and bewitching. Such agents are also considered responsible for unexplained swellings and red flush, the stroke and lumbago. Peculiar popular ideas concerning infection are noted and a strong prevailing belief that to find out the origin of a disease means often to heal it.

**Copy seen:** DLC; InU.

**24160. MANNINEN, ILMARI, 1894-1935.** Die nord-eurasischen Torsions-fallen. (Eurasia septentrionalis antiqua, 1931. v. 6, p. 1-14, 20 illus.) **Title tr.:** The North-Eurasian torsion-traps.

*Contains* description of Uralo-Siberian traps of this type found among the Samoyeds, Tungus, Zyryans, Chukchis, with references to Eskimos and Ob-Ugrians.

**Copy seen:** DLC.

**24161. MANNINEN, ILMARI, 1894-1935.** Über die Moxibustion in der Volksmedizin der Nordvölker. (Suomalais-ugrilainen seura. Toimituksia, 1933. no. 67, p. 256-66, 5 illus.) **Title tr.:**

On moxibustion in the popular medicine of northern peoples.

*Contains* account of this therapy practiced against all kinds of pains by burning of a piece of dried birch fungus close to the ailing spot as a counter-irritant. The painful practice once had a wide dissemination, from China and Japan to Europe, and is still in use among the northern Eurasian peoples, especially popular with the Russian Lapps.

**Copy seen:** DLC; InU.

**24162. MANNINEN, ILMARI, 1894-1935.** Überreste der Sammlerstufe und die Notnahrung aus dem Pflanzenreich bei den nordeurasischen, vorzugsweise den finnischen Völkern. (Eurasia septentrionalis antiqua, 1931, v. 6, p. 30-48) **Title tr.:** Survivals of the gathering-stage economy and the plants used for food in emergency among the northern Eurasian, particularly Finnish peoples.

*Contains* essay on wild plants used as food especially at times of starvation among the Finns, Chukchis (23 kind of plants), Lapps, Zyryans, and Voguls. Use of herbs, roots, tree bark, and berries, their names and preparation are described; the stomach contents of slain reindeer or squirrel are shown to be regarded as delicacies. These primitive peoples have long recognized non-poisonous plants and discovered those most fit for eating.

**Copy seen:** DLC.

**24163. MANNING, THOMAS HENRY, 1911- , and A. H. MacPHERSON.** Birds of the east James Bay coast between Long Point and Cape Jones. (Canadian field-naturalist, Jan.-Feb. 1952. v. 66, p. 1-35, 4 plates, sketch map)

*Contains* field notes and some data on population densities, of over 100 species of birds, observed during June-Sept. 1950.

**Copy seen:** DGS.

**24164. MANNING, THOMAS HENRY, 1911- .** Birds of the west James Bay and southern Hudson Bay coasts. Ottawa 1952. 2 p. 1, 114 p. incl. 7 plates, fold. map. (Canada. National Museum. Bulletin 125; Biological series 43)

*Contains* report on birds seen and collected (incidentally to other work) by author and party along these coasts in 1947 and near the Moose River estuary in 1949; with addition of records (published and unpublished) for the coast from Moose Factory to Nelson

River and inland 15 miles. Field notes are given on about 250 species and subspecies observed in the coastal, barrens, deciduous scrub, and spruce areas: numbers seen and collected are noted, habitats described, and records from museum files and published literature included. Bibliography (about 150 items). **Copy seen:** CaMAI; DGS.

**24165. MANNING, THOMAS HENRY, 1911-** . Eskimo stone houses in Foxe Basin. (Arctic, Aug. 1950. v. 3, p. 108-112, illus., map)

Notes on dwellings, tent rings, etc., seen by the author (or excavated) during the period 1938-49, on Foxe and Melville Peninsulas, the Baffin Island shores between Hantzsch River and Piling Bay, and in the Igloolik region. These remains appear to be of early 19th century origin, some of them older. Bibliography (7 items). **Copy seen:** DAI; DLC.

**24166. MANNING, THOMAS HENRY, 1911-** . A mixed Cape Dorset - Thule site on Smith Island, East Hudson Bay. (Canada. National Museum. Bulletin 123, its Annual report for 1949-50, pub. 1951, p. 64-71, illus.)

Contains notes on 12 Eskimo stone house ruins investigated (partly excavated during a day's sojourn on this small island) during the Canadian Geographic Bureau expedition on the *Nauja*, summer 1949. Specimens (harpoon heads, and other implements and ornaments of antler, stone, etc.) are described, illustrated, and correlated with previous finds. They are of Cape Dorset and Thule types and "it seems probable that some Cape Dorset traits survived in this region . . . into Thule times." **Copy seen:** DLC.

**24167. MANNING, THOMAS HENRY, 1911-** , and D. F. COATES. Notes on the birds of some James Bay islands. (Canada. National Museum. Bulletin 126, its Annual report for 1950-51, pub. 1952, illus., map)

Contains notes, arranged in systematic order, on birds collected in 1947 and 1949 on 11 barren and near-barren islands of central James Bay (ca. 53° N., 80° W.). The account is preceded by a description of the islands visited, their soil, flora, and times spent on them. The notes include some data on nests and nesting, morphology, etc. Bibliography (10 items). **Copy seen:** CaMAI.

**24168. MANNING, THOMAS HENRY, 1911-** . Remarks on the tides and driftwood strand lines along the east coast of James Bay. (Arctic, Sept. 1951. v. 4, p. 122-30, illus., map, diag.)

Contains notes and observations on tides and driftwood strand lines made incidentally to other work during a canoe trip (Moosonee to Long Island) in summer 1950, the measurements being taken at irregular intervals and only in the daytime. Reference is made, and eyewitness accounts are quoted regarding the unusually high tide of October 1949, the highest in the memory of the James Bay residents. This is supplemented by observations on the driftwood strand lines of the locality. Bibliography (8 items). **Copy seen:** DLC.

**24169. MANNING, THOMAS HENRY, 1911-** , and R. W. RAE. Tidal observations in arctic waters; notes. (Arctic, Aug. 1950. v. 3, p. 95-104, illus., map)

Manning's notes on tides along the southern Hudson Bay and western James Bay coasts are those made by him in 1947 while canoeing from Moosonee to York Factory and around Akimiski Island; tidal observations at Resolute Bay on Cornwallis Island, July-Aug. 1949, and at Isachsen (78°47' N., 103°32' W.) Aug. 31-Sept. 6, 1949 were made by R. W. Rae; editorial note supplements the Resolute Bay observations by mentioning measurements made in 1850-51 at Assistance Bay on Cornwallis Island during a Franklin search voyage and reported by P. C. Sutherland (in his *Journal of a voyage*, 1852). **Copy seen:** DAI; DLC.

**24170. MANNING, THOMAS HENRY, 1911-** . The varying lemming in captivity in Ottawa. (Arctic circular, Feb.-Mar. 1950. v. 3, p. 20-21)

Notes on several shipments of *Dicrostonyx groenlandicus* from various localities in northern Canada, and their breeding, eating and mortality records in captivity. Bibliography: (2 items).

**Copy seen:** CaMAI.

**MANNING, THOMAS HENRY, 1911-** , see also Bray, R. J. O. Five watersheds. 1935. No. 20873.

**MANNING, THOMAS HENRY, 1911-** , see also Polar record. Can. Dept. exped. Foxe Basin 1949. 1951. No. 25136.

**24171. MANSELL, G. A.** "Tunik." (RCMP quarterly, Apr. 1952. v. 17, no. 4, p. 333-37, illus.)

Descriptions of remains of two long-abandoned dwelling sites of Thule-culture Eskimos on: (1) north end of Harrison Island, (2) Sleeper Islands; with note on present-day Eskimo reports on other sites and their ancient inhabitants. The two sites were examined by the author during a three years' tour of police duty based in Port Harrison.

**Copy seen:** CaMAI.

**24172. MANTEIFEL, B. P.** K biologii krylonogogo mollŭska *Clione limacina* Phipps. (Moskovskoe obschestvo ispytatelei prirody. Bŭlleten', 1937. Otdel. biol. Novaiā seriā, t. 46, vyp. 1, p. 25-35) **Title tr.:** On the biology of *Clione limacina* Phipps.

Contains a study of the biology of a marine mollusc, *Clione limacina*, widely distributed in the Barents Sea and considered a stenothermic form adapted to fixed temperature. Tabular data are offered to show its ability to stand great fluctuations of temperature. Summary in English. **Copy seen:** DLC; MH-Z.

**24173. MANTEIFEL', B. P.** Plankton odnol iz gub v zapadnoi chasti Murmansko poberezh'ia. (In: Sbornik N. M. Knipovicha, 1939, p. 87-98, diagr.) **Title tr.:** The plankton of one of the bays on the western part of the Murman coast.

Contains the results of the author's study of the plankton of some small inlets and harbors in the Motovski and Kola Bay regions. The explored localities are characterized, their phyto- and zooplankton divided into four seasonal-ecological groups; data are presented on fluctuation in the abundance of planktonic biomass in this typical coastal zone. Summary in English.

**Copy seen:** MH-Z.

**MANTIS, HOMER T.,** see Minnesota. University. Institute of Technology. Review properties snow & ice. 1951. No. 24376.

**24174. MANVILLE, IRA A., and E. B. CHASE.** The influence of nutritionally produced anemia on the ability of experimental animals to withstand low temperatures. (American journal of physiology, Mar. 1937. v. 118, p. 549-61)

Contains a study on rats made anemic by a diet deficient in vitamin-B complex. A loss of weight preceded the drop in body temperature, characteristic of this deficiency; coincident with the drop in

body temperature, there was a decrease of the number of erythrocytes and amount of hemoglobin followed by anhydremia; the latter is explained as being due to a shift of water from the blood to the tissues, and caused by cold. With the increase of the severity of the anemia the resistance to low temperatures decreased. Bibliography (15 items).

**Copy seen:** DLC.

**24175. MARAKUEV, A. V.** Ėkspeditsiā Arkticheskogo instituta vo Vladivostoke. (Akademiā nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1932, no. 3-4, p. 70-74) **Title tr.:** The expedition of the Arctic Institute in Vladivostok.

Contains a summary of a report delivered in Vladivostok, Nov. 24, 1932, by Prof. O. Ū. Schmidt and his collaborators on the expedition of the ice-breakers *Sibiriatkov* and *Rusanov* from Arkhangel'sk to Bering Strait, Oct. 1-Nov. 22, 1932, with brief summaries by the various specialists of the results of their studies of meteorology, hydrology, hydrobiology, plankton, whales, cetaceans, marine birds and geology (Dikson Island, Sverdrup Island, Severnaya Zemlya).

**Copy seen:** DLC; MH-A.

**24176. MARCHAND, JOHN F.** Tribal epidemics in the Yukon. (American Medical Association. Journal, 1943. v. 123, p. 1019-1020)

Indian villagers at Teslin Lake, speaking the Tlingit language, had little outside contact since the 1896 gold rush. In 1942 construction of a highway began nearby and the contact with an urban population brought soon an outbreak of measles (affecting 121 out of 130 Indian villagers) and was followed by dysentery. In 1943 jaundice, German measles, mumps, tonsillitis and meningococcic meningitis followed; with 3 fatalities from measles, 4 from meningitis.

**Copy seen:** DLC.

**MARCUS, MELVIN G.,** see Haley, T. R., & others. Food reports Juneau Ice Field 1949-51. 1959. No. 22376.

**24177. MARCUSSEN, POUL V., and JØRGEN RENDAL.** En studie over syphilis i en Grønlandsk boplads. (Ugeskrift for læger, 1949. v. 111, p. 1-4, map, diagr.) **Title tr.:** A study of syphilis and sexual habits in southern Greenland.

The authors describe the development of, and the fight against an endemic of

syphilis in southern Greenland. Neither clinically nor epidemiologically was anything found to support the idea of older writers of a special immunity of the Greenlanders against syphilis. An analysis of sexual habits and marital conditions, with a view to prophylactic means, follows.

*Copy seen:* DSG.

**24178. MARICH, M., pseud.** Zhizn' i plavaniia flota kapitan-leitenanta Fedora Litke. Moskva, Izd-vo Glavsevmorputi, 1949. 278 p., port. *Title tr.:* The life and voyages of Captain-Lieutenant of the Navy Litke.

A story (by Mariia Davydovna Chernysheva) of the life of Fedor Petrovich Litke (1797-1882), centering about the years of his great travels and discoveries, the arctic expedition of 1821-24 on mapping the west coast of Novaya Zemlya, and the voyage around the world on the *Seniavin* in 1826-29 which reached the Bering Strait area. Some other famous explorers and events of the period are also described in the story.

*Copy seen:* DLC.

**24179. MARION, GEORGE.** Bases & empire. A chart of American expansion. Third edition. New material. New York, Fairplay Publishers, 1949. 192 p.

First published in 1948, an outline of U. S. expansion and expansionism, including the arctic areas of the Western Hemisphere. Following a history of this movement up to World War II, author analyzes in detail the establishment of Arctic, Atlantic and Pacific bases, in the light of "cold-war" policies.

*Copy seen:* DLC.

**24180. MARKEYVICH, O. P., and O. N. BAUER.** Parazytychni veslonogi rakopodibni (Copepoda parasitica) prysnovodnykh rib Sybirii. (Akademiia nauk Ukrain's'koï RSR. Instytut zoologii. Trudy, 1950. t. 4, p. 112-16) *Title tr.:* Copepoda parasitica of fresh-water fishes of Siberia.

*Contains* Ukrainian and Russian diagnoses of *Salmicola jaceutica* and *Coregonicola orientalis*, n. spp., two fresh-water parasitic copepods on fishes of the Lena and Yenisey River estuaries, and a list of all known parasitic copepods in the rivers of Siberia. Summary in Russian, p. 117-19.

*Copy seen:* MH-Z.

**24181. MARKHAM, Sir ALBERT HASTINGS, 1841-1918.** The life of Sir Clements R. Markham. London, J.

Murray, 1917. xi, 384 p., front., plates, ports.

A biography, mainly from the human side, of this explorer and geographer. Includes sections on his participation in a Franklin search expedition on the *Assistance* 1850-51; his assistance to, and promotion of arctic exploration, notably the Nares expedition of 1875 which he accompanied as far as Greenland. Comment on some of Markham's publications (including arctic) which are listed at end of volume.

*Copy seen:* DLC.

**MARKIN, N. M., see** Voronefs, I. S. O prislutstvii verkhnnei Ĭry. 1941. No. 27176.

**24182. MARKOV, I. S.** Razvitiie ovtshevodstva v Komi ASSR. (Sotsialisticheskoe zhivotnovodstvo, Aug. 1952. v. 14, no. 8, p. 57-59) *Title tr.:* Development of sheep breeding in the Komi A.S.S.R.

*Contains* remarks on the low position sheep breeding occupies in local animal husbandry (six per cent) and the insufficient exploitation of pastures; discussion of need to combat sterility, increase the percentage of lambs in the flock, and develop systematic feeding; lambing, wool yield, races suitable for the area are also dealt with.

*Copy seen:* DLC.

**24183. MARKOV, K. K.** Osnovnye problemy geomorfologii. Pod redaktsiei Ĭ. S. Edel'shteina. Moskva, OGIZ Gosudarstvennoe izd-vo geograficheskoi literatury, 1948. 342 p., maps. *Title tr.:* Basic problems of geomorphology. Under the editorship of Ĭ. S. Edel'shtefn.

*Contains* introductory notes (what is geomorphology? the development of geomorphology abroad and in Russia); the indigenous factors in the formation of relief; geomorphology of the plains; development of the relief; main problems of geomorphology and the national economy of the U.S.S.R. Includes scattered references throughout to arctic regions and conditions. Bibliography (about 300 items).

*Copy seen:* DLC.

**24184. MARKOV, SERGEĬ.** Letopis' Aljaski. [Izd. 2.] Moscow-Leningrad, Izd-vo Glavsevmorputi, 1948. 220 p., illus., ports., maps (part fold.) *Title tr.:* Annals of Alaska.

*Contains* a (somewhat exalted) narrative of the Russian occupation, colonization and administration of Alaska based on ten years' work on Russian archival

sources. The account centers on explorers and pioneers, beginning with the 18th century and continuing to the exploits of Soviet airmen, but dealing mainly with the period from Bering's voyages to the end of the Russian régime in 1867. It gives descriptions of expeditions and their course, the lands discovered, their animals, plants and natural resources; native peoples and their ways of life, etc.; the fur trade and the Russian American Co. The book is fully illustrated and (geographically) indexed. In addition a briefly annotated list of about 400 Russian travelers and explorers of Alaska, government and public figures mentioned in the text is appended.

**Copy seen:** DLC.

**24185. MARKOV, SERGEĬ.** Podvig Semena Dezhneva. Moskva, Gosud. izd-vo geograficheskoi literatury, 1948. 85 p. sketch map. (Russkie puteshestvenniki) **Title tr.:** The exploits of Semen Dezhnev.

Contains a popular account of the earliest knowledge of northeasternmost Asia and its possible connection with America: the home and youth of Dezhnev; his service as cossack in Yakutia and his trip over the Cold Pole area and down the Yana River to the arctic sea (1642-43); his abortive attempt in 1647, and (in 1649) his trip down the Kolyma to the sea, then eastward and through the Bering Strait to the Anadyr'; the local population at that time; life at Fort Anadyr'; his local trips, explorations and notes; further exploits of his fellows; and his last years.

**Copy seen:** DLC.

**MARKOVA, N.,** see Brusilovskii, I., & N. Markova. Magnetity Kol'skogo p-ova. 1933. No. 20985.

**MARKOVIĆ, LEPOSAVA,** see Giaja, J., & L. Marković. L'adaptation au froid. 1943. No. 22096.

**24186. MARKTANNER-TURNER ET SCHER, GOTTLIEB.** Die Hydroiden des k. k. naturhistorischen Hofmuseums. (Vienna. Naturhistorisches Hofmuseum. Annalen, 1890. Bd. 5, p. 195-286, plates 3-7) **Title tr.:** Hydroids of the [Vienna] Natural History Museum.

Contains a bibliography (109 items) p. 196-99, and a systematic enumeration of about 150 hydroids from various regions, with descriptions of numerous new species, synonymy, keys, critical notes and data on geographic distribution;

includes at least 15 species native to northern Norwegian and Jan Mayen waters.

**Copy seen:** MH-Z.

**MARR, JOHN W.,** see Schuster, R. M. Hepaticae E. coast Hudson B. 1951. No. 25984.

**24187. MARR, N. IÄ.** Suomi-karel'skie i somekh-kartskie äzyki; predvaritel'nyi otechet. (Akademiä nauk SSSR. Doklady, Seriä B, 1929, no. 2, p. 29-33) **Title tr.:** The Suomo-Karelian and Somech-Kartvelian languages; a preliminary report.

Contains linguistic discussion in which the Finno-Karelian languages are compared with the Grusian (a Georgian) language and the so-called sibilant group of the Armenian, from a purely formal point of view, as standing at the same stage in the evolution of language. The Karelian language has preserved the phonetic sibilant peculiarities better than Finnish. The author used three Karelian soldiers as native speakers for his investigation.

**Copy seen:** DLC.

**24188. MARSCHALEK, OTTO.** Österreichische Forscher, ein Beitrag zur Völker- und Länderkunde; mit einem Geleitwort von Martin Gusinde. Wien, Druck und Verlag St. Gabriel, [1949]. 172 p., parts., 2 fold maps. **Title tr.:** Austrian explorers, a contribution to ethnology and geography; with an introduction by Martin Gusinde.

Contains an account of Austrian exploration told in the form of biographies of explorers and narratives of their exploits. A brief historical review is followed by accounts of travelers for trading and colonizing companies; missionary organizations and those of the royal family and research institutions (p. 1-66). The remainder of the work is organized according to geographical areas and includes a chapter on the Arctic (67-82). The latter begins with C. L. Giesecke (1761-1833) and his mineralogical journey in Greenland, 1806-1813, and includes sketches of the life and exploits of: Weyprecht and Payer, Wegener and several others.

**Copy seen:** DLC.

**24189. MARSH, DONALD B.,** Bishop of the Arctic. Life in a snowhouse. (Natural history, Feb. 1951. v. 60, p. 64-67, illus.)

Brief text to accompany photographs showing winter life of Caribou Eskimos of the Padlemiut tribe.

**Copy seen:** DGS; DSI-M.

**24190. MARSH, DONALD B.,** *Bishop of the Arctic.* White whales in the Arctic. (Canadian geographical journal, July 1950. v. 41, p. 34-40, illus.)

The author describes hunting with Eskimos for beluga in Beaufort Sea, noting the Eskimos' preparation and use of the flesh, organs, skins, etc., of the whale. **Copy seen:** DGS; DLC.

**MARSH, G. H.,** *see* Laughlin, W. S., & G. H. Marsh. New view history Aleutians. 1951. No. 23685.

**24191. MARSH, GORDON, and M. SWADESH.** Kleinschmidt centennial V: Eskimo Aleut correspondences. (International journal of American linguistics, 1951. v. 17, no. 4, p. 209-216)

Contains linguistic study, listing 140 comparisons for which the authors were able to reconstruct the Proto Eskimo-Aleut form. The authors have little doubt of the common origin of the both languages, although the specific vocabulary correspondences are not too easy to find; this indicates that Eskimo and Aleut have been diverging for a long time. **Copy seen:** DLC.

**24192. MARSHAK, M. E.** Fiziologicheskie osnovy zakalivaniia organizma. (Sem'ia i shkola, Sept. 1952. v. 7, no. 9, p. 32-33) **Title tr.:** Physiological basis of hardening the organism.

Contains an article on the importance of developing resistance to cold for general health; the effects of local cooling on remote regions of the body and the way this is effected; thermal regulation of the nervous system; ways of acquiring cold resistance, etc. **Copy seen:** DLC.

**24193. MARSHALL, A. J.** Non-breeding among arctic birds. (Ibis, 1952. v. 94, no. 2, p. 310-33, plate 1)

Contains results of a study, carried out by the author on Jan Mayen. Data are given on the environmental conditions and his observations on various species of casual visitors, passerines, migratory waders and sea birds and laboratory examination of gonads of both breeders and non-breeders. The conclusion is that non-breeding in sexually mature birds may be caused variously, by lack of safe nest-sites due to fox persecution, lack of breeding cover and food shortage, the cause differing from species to species. **Copy seen:** MH-Z.

**MARSHALL, R. J.,** *see* Greenfield, A. D. M., & others. Heat loss from toes in cold water. 1951. No. 22204.

**24194. MARTI, IŪ.** Promyslovaia razvedka ryby. Moskva, Pishchepromizdat, 1948. 139 p., illus. **Title tr.:** Commercial reconnaissance of fishes.

Following an outline of physical, chemical and biological factors, which determine the abundance of fish and formation of shoals, the author analyses the distribution, shapes, direction and other general characteristics of the shoals. This is followed by a description of reconnaissance methods (biological, echometric, from airplanes, etc.) and organization; preparation of charts and prognoses. A separate section deals with individual species of commercial fish and mammals, including such arctic forms as seals, cod, haddock, Murman herring, crabs, etc. Bibliography (about 80 items). **Copy seen:** DLC.

**24195. MARTIN, FREDERICKA I.** Three years of Pribilof progress. (American Indian, Spring 1950. v. 5, no. 3, p. 17-26)

Author outlines the "feudalistic paternalism" under which, she states, the Aleuts of the seal islands lived previous to their wartime evacuation in 1942; notes change in administrative policy 1946-47, improvements in education and health facilities, nutrition, civil rights of the Pribilof Islanders; then discusses in detail the wage scale and employee rights of sealers in government service on the Islands, and closes with a critical review of the U. S. Dept. of the Interior, Pribilof Islands Survey Group reports, 1949, q. v.

Following this paper (p. 26-29) is an abstract of the Pribilof Islands Survey Group's Observations and recommendations. **Copy seen:** DLC.

**24196. MARTIN, FREDERICKA I.** Wanted, a Pribilof bill of rights. (American Indian, Fall, 1946. v. 3, no. 4, p. 15-25)

Critical discussion of social and economic rights of the (roughly) 500 Aleuts of the Pribilof Islands, administered (since 1941) by U. S. Fish and Wildlife Service, and of these natives' treatment as non-citizen wards of the government; inequities of their year-round wages: cash for work in the brief sealing season, rations and social services for maintenance work. Need for improved educational and health facilities, and for

recognition of Aleuts' rights as American citizens in voting and in managing community affairs, etc. Based in part on the author's observations while resident on the Islands 1941-42, as wife of U. S. Public Health doctor.

**Copy seen:** DLC.

**24197. MARTIN, JEAN.** Gravimétrie. (In: Victor, P.-É., and others. Rapport préliminaire de la campagne au Groenland 1949, pub. 1950, p. 34-43, tables) **Title tr.:** Gravimetry.

Contains information and data on instruments and calibration used; conditions of travel; list of gravimetric stations occupied in Scotland, Iceland, Newfoundland and in Godthaab, Holsteinsborg, Jakobshavn and the expedition's Camp I on Greenland; data obtained at these stations, analysis, comparisons with those obtained in 1948, etc.

**Copy seen:** CaMAI.

**24198. MARTIN, JEAN, and A. JOSET.** Sondages sismiques. (In: Victor, P.-É., and others. Rapport préliminaire de la campagne au Groenland 1949, pub. 1950, p. 44-58, diags.) **Title tr.:** Seismic soundings.

"Sounding studies of the Greenland ice cap, the form of the covered ground, the underground water level and the mechanical properties of firn, ice, and bed rock are reported and the equipment used is listed. The research site was located at 1800 m. alt. Installation of the equipment is described and the working plan outlined. Charges from 50-500 gm. were used for reflections and charges below 10 kg. for refractions. Experiments with different charge dispositions resulted in the use of a long-distance device for the registration of reflected waves. The distance between the explosion and the seismograph at which the reflected longitudinal waves are received before the Rayleigh waves is derived from an equation. Results obtained with the refraction and reflection methods are described and compared. It is concluded that the seismic soundings were successful, but further research is required to explain the ground roll, investigate the weak-velocity layer, and determine wave velocity variations as affected by depth."—SIPRE. **Copy seen:** CaMAI.

**24199. MARTIN, P. R.** Vulkanische Aktivität kein Klima-Faktor! (Naturwissenschaftlicher Verein für Schleswig-Holstein. Schriften, 1951. Bd. 25, p.

50-57) **Title tr.:** Volcanic activity is not a climatic factor.

Author discusses long range meteorologic effects from major volcanic eruptions (including Katmai, Kamchatka) for which there are records; and gives his opinion that no strong weather or climatic effects may be claimed. Bibliography (12 items). **Copy seen:** DGS.

**24200. MARTIN, PAUL F.** Surface features of the Matanuska valley, Alaska. [Abstract]. (Association of American Geographers. Annals, 1942. v. 32, p. 127-28)

Sketch of bed rock geology and of the "primary or reworked glacial deposits, with minor features due to wind action" which account for practically all of the surface features of the valley today.

**Copy seen:** DGS; DLC.

**24201. MARTIN, PAUL SIDNEY.** 1899- , and others, Indians before Columbus; twenty thousand years of North American History revealed by archeology. Chicago, Ill., University of Chicago Press, [c1947]. xxiii, 582 p., incl. front., illus., tables. **Other authors:** G. I. Quimley and D. Collier.

"A contribution of the Chicago Natural History Museum. This book has been written for the interested layman and for students taking introductory courses in anthropology." It includes (in chap. 30) a précis of the archeology of the Northwest Coast Indians (Haida, Tlingit and others) and in chap. 31-33 (p. 473-509), that of "Northwestern" (Okvik, Old Bering Sea, Ipiutak, etc.), "Southwestern" (Early, Middle and Late Aleut, etc.) and "Eastern" (Dorset, Thule, and Inugsuk) Eskimo areas.

**Copy seen:** DLC.

**24202. MARTINI, ERICH.** Dixinae und Corethrinae des Museums zu Helsingfors. (Notulae entomologicae, 1928. v. 8, no. 1, p. 33-35, illus.) **Title tr.:** Dixinae and Corethrinae of Helsingfors Museum.

Contains a German diagnosis of *Mochlonyx lapponicus* n. sp. found in Finnish and Russian Lapland and a list of ten other dipters (subfam. Corethrinae and Dixinae) deposited in Helsinki Museum, including three species of *Dixa*, native to Finnish Lapland.

**Copy seen:** DLC; MH-Z.

**24203. MARTYNOV, ANDREY VASIL'-EVICH, 1879-1938.** Ékologicheskije predposylki dlâ zoogeografii presnovodnykh

bentonicheskikh zhivotnykh. (Russkii zoologicheskii zhurnal, 1929. t. 9, vyp. 3, p. 3-38) **Title tr.:** Some ecological essentials of the zoogeography of fresh-water benthos animals.

**Contains** a study of ecological factors influencing geographic distribution of fresh-water benthos, with data on subdivision and ecological classification of the benthos population of running water basins and analysis of zoogeographic factors; includes data on arctic fresh-water basins; bibliography (31 items). Summary in German.

**Copy seen:** DLC; MH-Z.

**24204. MARTYNOV, ANDREĬ VASIL'-EVICH, 1879-1938.** *Hydropsyche ornatula* Mc. Lachl. (Trichoptera) i blizkie vidy. (Russkoe entomologicheskoe obozrenie, 1926. t. 20, no. 1-2, p. 111-26, illus.) **Title tr.:** On *Hydropsyche ornatula* Mc. Lachl. (Trichoptera) and allied species.

**Contains** data on the systematic relation and geographic distribution of four species of the genus *Hydropsyche*, including *H. guttata* from the lower Lena region and *H. ornatula* occurring in Lower Tunguska basin, Krasnoyarsk province. Summary in English.

**Copy seen:** DIS-M; MH-Z.

**24205. MARTYNOV, ANDREĬ VASIL'-EVICH, 1879-1938.** Mestonakhozhdenie iskopaemykh nasekomykh v predelakh SSSR. (Akademiia nauk SSSR. Paleontologicheskii institut. Trudy, 1938. t. 7, vyp. 3, p. 6-28, text maps) **Title tr.:** Review of localities of fossil insects in U.S.S.R.

**Contains** a review of the localities together with brief characterization of their entomofauna; Permian insects are known from 23 localities, including Iva-Gora, Sheimo-Gora and Letopola in the Arkhangel'sk region; Mesozoic from 13, Tertiary from 12 and upper Carboniferous from four localities; the age of the localities and relationship to the fossil fauna of similar age in other countries are discussed.

**Copy seen:** DLC; MH-Z.

**24206. MARTYNOV, ANDREĬ VASIL'-EVICH, 1879-1938.** Nauchnye rezultaty Ĭakutskoi ekspeditsii Akademii nauk SSSR. 1927 g. Zametka o presnovodnykh Amphipoda i Isopoda severnoi Ĭakutii. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1931,

pub. 1932. t. 32, vyp. 4, p. 523-40, illus., plates 1-3) **Title tr.:** Scientific results of the Expedition of the Academy of Sciences of U.S.S.R. to Yakutia in 1927. Note on the fresh-water Amphipoda and Isopoda of northern Yakutia.

**Contains** description of five fresh-water crustaceans collected by A. M. Popov at Lena River and in the New Siberian Islands, including *Synurella jaculana* n. sp., *S. jaculana* var. (*Morpha*) *elegans* n. var. and *Gammarus pulex extensus* n. subsp. from the lower Lena River; the paper includes also a description of *Synurella donensis* n. sp. from Don River, southern European Russia; bibliography (26 items). Summary in English, p. 534-38. **Copy seen:** DLC; MH-Z.

**24207. MARTYNOV, ANDREĬ VASIL'-EVICH, 1879-1938.** O novom permskom otrĭade priĭamokrylykh nasekomykh Glosselytrodea. (Akademiia nauk SSSR. Izvestiia. Otdelenie matematicheskikh i estestvennykh nauk. Serii biologicheskai, 1938, no. 1, p. 187-206, illus., plate) **Title tr.:** On a new Permian order of orthopteroid insects, Glosselytrodea.

**Contains** a description of a new orthopteran order Glosselytrodea from Permian deposits in the valley of Soyana River, Arkhangel'sk province, with analyses of two new fossil families, one genus, six new species and one new form

**Copy seen:** MH.

**24208. MARTYNOV, ANDREĬ VASIL'-EVICH, 1879-1938.** O podotriade Permanisoptera nom. nov. (Odonata) i ego polozhenii. (Akademiia nauk SSSR. Doklady, 1931. Serii A. p. 246-47) **Title tr.:** On the new suborder Permanisoptera, nom. nov. (Odonata) and its systematic position.

**Contains** a change of the name of the suborder Protanisoptera of the fam. Permaeschinidae, (described in the author's paper *On some new remarkable Odonata from the Permian of Archangelak district*, 1931, q. v.) to Permanisoptera, nom. nov., with explanation of the reasons for such change.

**Copy seen:** DLC; MH.

**24209. MARTYNOV, ANDREĬ VASIL'-EVICH, 1879-1938.** Ocherki geologicheskoi istorii i filogenii otrĭadov nasekomykh (Pterygota), chast' I. Palaeoptera i Neoptera-Polyneoptera. Moskva-Leningrad, 1938. 147, [2] p., illus. (Akademiia

nauk SSSR. Paleontologicheskii institut. Trudy, 1938. t. 7, vyp. 4) **Title tr.:** Studies on the geological history and phylogeny of the insect orders (Pterygota), part I. Paleoptera and Neoptera-Polyneoptera.

**Contains** a study of phylogenetic relation of various orders of insects (Pterygota), with data on their morphology, classification, evolution, survival of some groups and extinction of others; geological history of insects, based partly on fossil material from northern regions of Europe (Arkhangelsk province) and Asia. Pt. 1, Paleoptera and Neoptera-Polyneoptera, was published after the author's death. Bibliography (147 items). Summary in French.

**Copy seen:** DLC; MH-Z.

**24210. MARTYNOV, ANDREĬ VASIL'EVICH, 1879-1938.** On some new remarkable Odonata from the Permian of Arkhangelsk district. (Akademiia nauk SSSR. Izvestiia, seriia 7, Otdelenie matematicheskikh i estestvennykh nauk, 1931, no. 1, p. 141-47, illus.)

**Contains** descriptions of *Permaeschna* n. gen., *P. dolloi* and *P. proxima* n. spp. and *Protanisoptera* n. subord., described from the fossil remains in the Permian of Iva-Gora, Arkhangelsk region. Summary in Russian.

**Copy seen:** DLC; MH.

**24211. MARTYNOV, ANDREĬ VASIL'EVICH, 1879-1938.** On the Permian family Archescytinidae (Homoptera) and its relationship. (Akademiia nauk SSSR. Izvestiia, seriia 7, Otdelenie matematicheskikh i estestvennykh nauk, 1933, no. 6, p. 883-94, illus.)

**Contains** diagnoses of two new genera and six new species of the fossil family Archescytinidae discovered in Permian deposits on the banks of Soyana River, Arkhangelsk province. Discussion of the systematic position of this family and its relationship to other families of fossil insects is given also. Summary in Russian.

**Copy seen:** DLC; MH.

**24212. MARTYNOV, ANDREĬ VASIL'EVICH, 1879-1938.** Permian fossil insects from the Arkhangelsk district, Part I, the order Mecoptera; Part II, Neuroptera, Megaloptera and Coleoptera, with the description of two new beetles from Tikhie Gory. (Akademiia nauk SSSR. Paleontologicheskii institut. Trudy, 1932.

t. 2, p. 23-62, illus., plate 4; (II) p. 63-115, illus., plates 5-8)

**Contains** in pt. I: descriptions of 24 species (21 new) and one variety of fossil insects of the order Mecoptera from Permian deposits in the basin of Soyana River (a left tributary of the Kuloy at about 65°39' N. 42°50' E. in Arkhangelsk province) with notes on classification and faunal relation; in pt. II, Russian (in text) and English (in summary): descriptions of some new families, genera and 11 new species of Neuroptera, Megaloptera and Coleoptera from the same deposits. Text of pt. I is in English, pt. II in Russian; pt. III-IV have not been seen; for pt. V, Homoptera, see two items following. Summary in Russian (pt. I), p. 56-61; Summary in English (pt. II), p. 87-96.

**Copy seen:** DLC; MH-Z.

**24213. MARTYNOV, ANDREĬ VASIL'EVICH, 1879-1938.** Permian fossil insects from the Arkhangelsk district. Pt. 5, Homoptera. (Akademiia nauk SSSR. Paleontologicheskii institut. Trudy, 1935. t. 4, p. 1-35, illus., plate 1)

**Contains** descriptions of three new families, two genera, 24 new species and a few subspecies of fossil insects of the order Homoptera from the Permian deposits at Iva Gora and Sheimo Gora, Soyana River basin, Arkhangelsk region. For previous parts of this work, see item above; for continuation, see item following. Summary in Russian, p. 27-35.

**Copy seen:** DLC; MH-Z.

**24214. MARTYNOV, ANDREĬ VASIL'EVICH, 1879-1938.** Permskie nasekomye Arkhangelskoi oblasti (b. Severnogo kraia). Chast' V, Sem. Euthygrammidae i ego otnosheniia (s opisaniem odnogo novogo roda i semeitva iz Chekardy). (Akademiia nauk SSSR. Paleontologicheskii institut. Trudy, 1938. t. 7, vyp. 3, p. 69-80, illus.) **Title tr.:** Permian fossil insects from the Arkhangelsk district. Part V, The family Euthygrammidae and its relationships (with the description of a new genus and family from Chekarda).

**Contains** in this posthumous paper, some additional descriptions of fossil insects from Permian deposits of Arkhangelsk province and other more southerly locations (Chekarda), including *Euthygramma parallellum*, *E. aberrans* n. sp. and *Vilviopsis extensa* n. gen. n. sp. from Iva-Gora, Sheimo-Gora and Letopola in Arkhangelsk province. This

paper is apparently a continuation of *Pt. V, Homoptera* of the same work, published in 1935, q. v.

**Copy seen:** DLC; MH-Z.

**24215. MARTYNOV, ANDREĬ VASIL'EVICH, 1879-1938.** Ruchelniki. Prakticheskaia éntomologíia: rukovodstvo k prakticheskim zaníatiám po éntomologii, pod redaktsíei N. N. Bogdanova-Kat'kova. vyp. 5. Leningrad, Gos. izd-vo, 1924. iv, 388 p. illus. **Title tr.:** Trichoptera. Practical entomology: a handbook on the practical study of entomology, edited by N. N. Bogdanov-Kat'kov. Part 5.

*Contains a study of the caddis flies of European Russia and western Siberia, with a general sketch of the order Trichoptera and its classification, tables for the determination of families, subfamilies, genera and species, descriptions of all known species and data on their habitat and geographic distribution. A zoogeographic survey is given (p. 353-78); a bibliography on trichopters of Russia and adjoining countries (131 items) and an index of Latin names. Includes many species native to northern regions of European Russia, Finland and western Siberia.*

**Copy seen:** MH-Z.

**24216. MARTYNOV, ANDREĬ VASIL'EVICH, 1879-1938.** Ruchelniki (Trichoptera) SSSR. Chast' I, Podotriád Kol'chatoshchupikovykh (Annulipalpia). Leningrad, Izd-vo Akademii nauk, 1934. 343 p., illus. (In: Akademiia nauk SSSR. Zoologicheskii institut. Opredeliteli po faune SSSR. No. 13) **Title tr.:** Trichoptera Annulipalpia of the U.S.S.R., part I.

*Contains a diagnosis and description of the order Trichoptera, sexual dimorphism, brief data on larvae and pupae, biological notes, economic importance, classification, paleontology, statistical data and elements of the fauna, keys to the families, genera and species (males) of the suborder Annulipalpia and descriptions of 186 species (31 new species described in Russian and in English summary), with notes on distribution and ecology. Includes some species native to northern regions of U.S.S.R. Bibliography (290 items on Trichoptera of the U.S.S.R., general, and by countries). Summary in English, p. 232-43.*

**Copy seen:** DLC; MH-Z.

**24217. MARTYNOV, ANDREĬ VASIL'EVICH, 1879-1938.** Trichoptera

Íamal'skoí ékspeditsii Imp. Russkago geograficheskago obshchestva 1908 goda pod rukovodstvom B. M. Zhitkova. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1910. t. 15, no. 3, p. 334-49, illus.) **Title tr.:** Trichopters from the Yamal Expedition of the Imperial Russian Geographical Society, 1908, under direction of Mr. B. M. Zhitkov.

*Contains a systematic list of 31 caddis flies collected in 1908 on the Yamal Peninsula, western Siberia, with an English description of *Limnophilus fuscicornis nigrosignatus* n. var., critical notes, localities and data on total distribution.*

**Copy seen:** DLC; MH-Z.

**24218. MARTYNOV, ANDREĬ VASIL'EVICH, 1879-1938.** Trichoptera Kamchatskoí ékspeditsii F. P. Riábushinskogo v 1908-1909 gg. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1925, pub. 1926. t. 26, vyp. 1-2, p. 10-26, plate 2) **Title tr.:** Trichoptera collected by the F. P. Riábushinskii Expedition to Kamchatka in 1908-1909.

*Contains a systematic list of 22 caddis flies, including *Præcosmoecus kamtschaticus*, with Russian descriptions, critical notes and localities.*

**Copy seen:** DLC; MH-Z.

**24219. MARTYNOV, ANDREĬ VASIL'EVICH, 1879-1938.** Trichoptera of the Kamtshatka Expedition. (Russkoe éntomologicheskoe obozrenie, 1913, pub. 1914. t. 13, no. 3-4, p. 476-81, illus.)

*Contains short preliminary description of the collection of caddis flies taken 1908-1909 by the Expedition of F. P. Riábushinskii in Kamchatka Peninsula, including diagnoses of *Dicosmoecus* sp. (n. sp.?) and *Præcosmoecus kamtschaticus* n. gen. et. sp., and descriptive notes on 20 other species.*

**Copy seen:** DSI-M; MH-Z.

**24220. MARTYNOV, ANDREĬ VASIL'EVICH, 1879-1938.** Trichoptera Sibiri i prilozhashchikh mestnostei, Chast' I, Sem. Phryganeidae i Sericostomatidae (pods. Goerinae i Lepidostomatinae); Chast' II, Podsem. Brachycentrinae, sem. Molannidae, Leptoceridae, Hydropsychidae, Philopotamidae, Polycentropidae, Psychomyiidae, Rhyacophilidae, Hydroptilidae; Chast' III, Podsem. Apataniinae (sem. Limnophilidae); Chast' IV, Podsem. Limnophilinae (sem. Limnophilidae). (Akademiia nauk SSSR. Zoologi-

cheskil muzel. *Ezhegodnik*, 1909. t. 14, no. 3-4, p. 223-55, illus.; (II) 1910, t. 15, no. 4, p. 351-429, illus.; (III) 1914, t. 19, no. 1, p. 1-85, illus.; (IV) 1914, t. 19, no. 2, pl. 173-285, illus.) **Title tr.:** Trichoptera of Siberia and adjacent regions, Part I, Fam. Phryganeidae and Sericoatomatidae (subfam. Goerinae and Lepidostomatinae); Part II, Subfam. Brachycentrinae, fam. Molannidae, etc.; Part III, Subfam. Apataniinae; Part IV, Subfam. Limnophilinae (fam. Limnophilidae).

Contains a critical revision of 166 species of caddis flies (Trichoptera) of the families mentioned in subtitles, including keys to the species (male and female), Latin and German (in pt. III) descriptions of 38 new species, synonymy, Siberian localities and data on total distribution; includes at least 70 species native to northern Siberia and Kamchatka; pt. IV includes also a first supplement with additional information on 24 species. Parts I-II and IV are in Russian, pt. III in German.

**Copy seen:** DLC; MH-Z.

**24221. MARTYSHEV, F. G.** Prudovoe rybovodstvo na torfianykh kar'erakh. (Sotsialisticheskoe zhivotnovodstvo. Apr. 1952. 14 god, no. 4, p. 47-53, illus.) **Title tr.:** Pond fish culture in peat pits.

Contains sections on the area of peat pits or channels in Russia and its annual increase; types of pits suitable for agriculture and pisciculture; fish life in water-carrying pits; utilization of the latter type as growth ponds for carp; experiments in full scale carp-farming in peat channels; its requirements; possibilities; crop, etc. **Copy seen:** DLC.

**MARUKAWA, H.,** see Derûgin, K. M. Nekotorye rezul'taty issled. Marukawa. 1928. No. 21434.

**24222. MASAMICHI, RIN'NOSUKE.** Gokkan no jintai ni oyobosu sayô ni tsuite. (Seppyô, 1943. v. 5, p. 211-15, incl. table) Text in Japanese. **Title tr.:** On the effect of severe cold on the human body.

"The heat-loss rate of the human body in northern Manchuria at temperatures of -20° to -30° C. was measured with an alcohol Kata-thermometer. The heat-loss rate is expressed empirically in terms of temperature and wind. The physiological reactions to frostbite are described. Acclimatization to cold and resistance to frostbite are effective when the numerical

product of temperature and wind velocity is low, but becomes ineffective when the number exceeds a critical value. Death from cold exposure is discussed, and some dietetic relationships are reviewed. Ten minutes of vigorous exercise daily in the open without clothing are recommended practices to increase cold endurance."—Abstract by Ukitirô Nakaya for SIPRE. Bibliography (7 items).

**Copy seen:** CaMAI; DSG (photostat).

**24223. MASAMICHI, RIN'NOSUKE.** Manshûkoku ni okeru tōki no kanki ni taisuru jintai no tekiōryoku ni tsuite. (Seppyô, 1940. v. 2, p. 111-14) Text in Japanese. **Title tr.:** On the adaptability of the human body to winter coldness in Manchuria.

"The effects of low temperatures on the physiological processes of the body were investigated in Manchuria. Experiments were conducted to demonstrate the effects of food on cold endurance. Visual, auditory, and tactile sensations as affected by cold exposure were studied."—Abstract by Ukitirô Nakaya for SIPRE.

**Copy seen:** CaMAI; DSG (photostat).

**24224. MASHKOV'TSEV, S. F.** O nekotorykh porodakh Penzhiny. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1936. Seria 2, v. 65, p. 118-28, sketch map) **Title tr.:** On some rocks of Penzhina.

Description of some volcanic rocks (andesites and basalts) of the Tertiary phase of volcanism of northern Kamchatka. The rocks were collected by B. V. Bondarenko in 1930, in the north-eastern Okhotsk Sea region, around Penzhinskaya Guba.

Summary (very brief) in English.

**Copy seen:** DGS.

**24225. MASLOV, N. N.** Voprosy vozvedeniia sooruzhenii na vechnoi merzlote. (In his: Inzhenernaia geologiia. Leningrad-Moscow, Strolizdatnarkomstroia, 1941. p. 410-19, incl. illus., tables, graphs, map) **Title tr.:** Problems of construction on permafrost.

"The durability and stability of structures erected upon permafrost are discussed in relation to the temperature, heaving of frozen ground, and action of external forces. It is observed that freezing ground expands even at a temperature of -17.0° C. The swelling due to crystallization exerts a force of up to 21.8 kg./sq. cm. in loamy soils, with a moisture content of 19.1 percent, at tem-

peratures about  $-3.1^{\circ}$  C. Studies of permafrost conditions prior to construction should include the determination of the depth of the active layer, thermal regime of the permafrost, physical characteristics of the soils, the extent of ground ice, the hydrology of the surrounding area, the type of natural cover, and climatic factors. Some types of buildings can be erected without disturbing the permafrost table by using pile foundations, or by anchoring insulated foundations in the permafrost."—SIPRE.

**Copy seen:** DLC.

**24226. MASSAL'SKAÏA, K. P.** Bol'shoi meteoritnyi krater v Severo-Vostochnoi Kanade. (Priroda, Sept. 1951. v. 40, no. 9, p. 41-42, illus.) **Title tr.:** Great meteoritic crater in northern Canada.

Contains a description of Chubb Crater in Ungava Peninsula, northern Quebec ( $61^{\circ}17' N$ ,  $73^{\circ}40' W$ .) with data on its shape, dimensions and meteoritic origin. Comparison is made with some other craters caused by meteors' fall.

**Copy seen:** DLC; MH.

**MASSEY, HART**, see Arthur, E. R., & others. Moose Factory. 1949. No. 20329.

**MASSON, CHARLES E., 1862-**, see Lloyd-Owen, F. Gold Nugget Charlie. 1939. No. 23965.

**MASSON, JACQUES**, see Victor, P. É. Groenland 1948-1949. 1951. No. 27102.

**24227. MATEVOSIAN, E. M.** Novye tsestody ptits SSSR. (Akademiia nauk SSSR. Gel'mintologicheskii sbornik, 1946 p. 178-88, illus.) **Title tr.:** New cestodes of the birds in the U. S. S. R.

Contains diagnoses of six new species and one subspecies of tapeworms parasitic in the alimentary canal of various birds, including *Dicranotaenia cornuta micrantha* n. subsp.; *D. kutassi* and *Lateriporus skrjabini* n. spp. discovered in Yakutia.

**Copy seen:** MH-H.

**MATEVOSIAN, E. M.**, see also Skrabin, K. I., & E. M. Matevosian. Gimenoletidy mlekopitavushchikh. 1948. No. 26255.

**24228. MATHEWS, GREGORY MAC-ALISTER, 1876-**. Synonymy of *Fulmarus glacialis* (L.) (Ibis, 1934, ser. 13, v. 4, p. 173-74)

Contains a list of "full and correct"

synonymy of the arctic fulmar, a bird native to Spitsbergen, Greenland and Finnmark in Norway.

**Copy seen:** MH-Z.

**MATRENINSKIĬ, V. V.**, see Morozov, G. F. Uchenie o lese. 1949. No. 24482.

**24229. MAT'SKO, S. N.** K voprosy o sostoianii pozvonochnykh zhivotnykh pri zamerzanii. (Akademiia nauk SSSR. Doklady, novaiia seriia, 1948. t. 59, no. 3, p. 617-20, 2 fig., table) **Title tr.:** On the question of the condition of vertebrates upon freezing.

Contains a study on two species of adult frogs exposed to cold air ( $0^{\circ}$  to  $-5.5^{\circ}$  C.); the course of rectal temperature, heartbeat, breathing, movements of body and limbs, and ice formation in various organs were investigated. Bibliography (14 items). **Copy seen:** DLC.

**24230. MAT'SKO, S. N., and A. T. ZHMEĬDO.** Protseess l'doobrazovaniia i osobennosti krivoi temperatury tela pri zamerzanii pozvonochnykh zhivotnykh. (Zoologicheskii zhurnal, 1949. t. 28, vyp. 3, p. 269-76, tables) **Title tr.:** The process of ice formation and features of the body temperature curve of vertebrates during freezing.

Contains a report on experiments with adult frogs exposed to cold air of  $-3.5^{\circ}$  to  $-5.5^{\circ}$  C. Ice appeared first in the eyes, then in the muscle of the extremities, in the body cavity, on the brain and in the heart; through-freezing of the brain and of the blood in the heart marks the final phase. The body temperature curve and its relation to ice formation in the organism are discussed. Bibliography (17 items). **Copy seen:** DLC.

**24231. MAT'SKO, S. N., and A. T. ZHMEĬDO.** Vliianie, okazyvaemoe nekotorymi veshchestvami na protseess zamerzaniia i na vosstanovlenie zhiznennykh funktsii u podvergnutykh zamorazhivaniu pozvonochnykh zhivotnykh. (Akademiia nauk SSSR. Doklady, novaiia seriia, 1949. t. 69, no. 5, p. 703-706, fig., table) **Title tr.:** The influence exerted by certain substances upon the process of freezing and upon the restitution of vital functions in vertebrate animals subjected to freezing.

Contains a study on male frogs injected with 40 per cent alcohol, exposed to air temperatures of  $-4^{\circ}$  to  $-6^{\circ}$  C. and rewarmed in water of  $20^{\circ}$  C. In the experi-

mental animals, the amount of water frozen in the body at a temperature of  $-1.5^{\circ}\text{C}$ . was  $2\frac{1}{2}$  - 8 times smaller than in controls. The lag in ice formation was made pronounced in the alcohol-treated animals than in partly desiccated ones used for comparison. Bibliography (7 items). **Copy seen:** DLC.

**24232. MATŠKO, S. N.** Vosstanovlenie zhiznennykh funktsii u podvergnutykh zamorazhivaniū pozvonochnykh zhivotnykh v zavisimosti ot soderzhaniā v tele vody. (Akademiā nauk SSSR. Doklady, novaia seriā 1948. t. 59, no. 2, p. 401-404, 2 fig., table) **Title tr.:** Restoration of vital functions of frozen vertebrates, depending on the water content of their bodies.

Contains a report on experiments with several species of partly dehydrated (ca. 30 per cent) frogs; a decrease in the initial freezing temperature, and a sharper expression of the fall of body temperature during supercooling were observed; freezing in the dehydrated frogs was quicker and they withstood the most intense freezing. Bibliography (8 items). **Copy seen:** DLC.

**24233. MATŠKO, S. N., and others.** Vosstanovlenie zhiznennykh funktsii u podvergnutykh zamorazhivaniū pozvonochnykh zhivotnykh v zavisimosti ot stepeni zamerzaniā i tempa otogrevaniā. (Akademiā nauk SSSR. Doklady, novaia seriā, 1948. t. 59, no. 4, p. 817-20, 2 fig., 2 tables) **Title tr.:** Restitution of vital functions of vertebrates subjected to freezing and its dependence on the degree of freezing and the speed of thawing.

Other authors: A. T. Zhmeldo and V. M. Selivanova.

Contains a study on adult, male frogs exposed to temperatures of  $0^{\circ}$  to  $-1^{\circ}\text{C}$ . Data on the degree of freezing of various organs, length of life, etc., are given. When animals were cooled down to  $-0.6^{\circ}\text{C}$ , the speed of re-warming had no effect on restitution of vital functions; with cooling down to  $-0.9^{\circ}\text{C}$ , the degree of restitution of vital functions was much lower when re-warming was slow. Bibliography (4 items). **Copy seen:** DLC.

**24234. MATŠKO, S. N., and V. M. SELIVANOVA.** Vosstanovlenie zhiznennykh funktsii v zavisimosti ot vremeni ikh ischeznoveniā u podvergnutykh zamorazhivaniū pozvonochnykh zhivotnykh. (Akademiā nauk SSSR. Doklady, Novaia

seriā, 1949. t. 69, no. 3, p. 469-72, table) **Title tr.:** Restoration of vital functions dependent on the period of their disappearance in vertebrates exposed to freezing.

Contains an account of experiments with male frogs cooled with air of a minimal temperature of  $-6^{\circ}\text{C}$ . and re-warmed with water of  $20^{\circ}\text{C}$ . Stoppage of heartbeat for  $1\frac{1}{2}$  - 2 hours was followed with irreversible vital changes; some animals, partly frozen for many hours had their vital functions restored. During mild freezing (at an air temperature not lower than  $-1.2^{\circ}\text{C}$ ) heartbeat persisted up to 20 hours, much longer than in cases of freezing at  $-4^{\circ}$  to  $-6^{\circ}\text{C}$ . Bibliography (3 items). **Copy seen:** DLC.

**24235. MATSON, G. ALBIN, and H. G. ROBERTS.** Distribution of the blood groups, M-N and RH types among Eskimos of the Kuskokwim basin in western Alaska. (American journal of physical anthropology, 1949. (n. s.) v. 7, p. 109-122, tables)

Contains data on the area investigated; materials and methods; summary; conclusions: of 341 putatively full-blooded Eskimos, 36.95 percent were found to belong to group O, 44.87 percent to group A, 11.73 percent to B, and 6.45 percent to AB. Subgroup  $A_2$  is absent, as among Blackfoot Indians, Hawaiians and other "primitive and isolated" races. The difference between the Eskimos examined and the Alaska whites is not great as far as distribution of blood groups is concerned. With regard to M-N factors 47.80 percent belonged to type M, 41.64 to MN and 10.56 percent to N. There were no Rh negative (ede) bloods found among 315 specimens examined, in agreement with the situation among primitive people generally. The distribution of Rh sub-groups, though not clear, are in agreement with the distribution of these types among Mexican and Ute Indians. Bibliography (38 items). **Copy seen:** DSG.

**24236. MATTHES, FRANÇOIS ÉMILE, 1874-1948, and A. D. BELMONT.** The glacial anticyclone theory examined in the light of recent meteorological data from Greenland—Part 2. (American Geophysical Union. Transactions, Apr. 1950. v. 31, p. 174-82, illus.)

"Evidence collected before his death by Matthes (in the form of notes), edited and arranged by Belmont, shows that although cyclones are frequently diverted

by Greenland to the west or east, they occasionally cross the icecap both in summer and winter. Records made at Eismitte (1930-31) by the Germans, and by two British expeditions (1930-1931 and 1934) across the icecap, indicate that bad weather occurs over half of the time, and that the sequence of events (cloud, wind, precipitation, temperature) is not appreciably different from that which occurs elsewhere when cyclones pass. The outflowing of cold air which Hobbs cites as proof of a glacial anticyclone is only a very thin skin of cold air and prevents (rather than proves) the formation of an anticyclone. Other arguments presented to refute Hobbs' theory: passage of deep cyclones over other and higher mountain masses, depth of snow falling on ice cap many times greater than would occur from anticyclonic alimentionation of ice crystals."—*Meteorological abstracts and bibliography*, Aug. 1950. v. 1, no. 8, p. 496-97.

**Copy seen:** DLC.

**24237. MATTHES, MAX.** German air-sea rescue service during World War II. (*In*: U. S. Dept. of the Air Force. Office of the Surgeon General, School of Aviation Medicine. German aviation medicine, World War II, 1950. v. 2, p. 1139-57, illus.)

*Contains* account of the military technical aspects of this service organized in 1939 to operate from seaplane bases; followed by chapters on medical aspects: cooling (p. 1148-51); drowning, exhaustion, evacuation of wounded, etc. Under cooling and its control, "a primary problem . . . usually fatal," author deals with heat loss, special suits, first aid, and therapy. **Copy seen:** DLC.

**MATTHEWS, L. HARRISON**, *see* Amoros, E. C., & others. Reproductive organs new-born seals. 1951. No. 20182.

**MATTHEWS, L. HARRISON**, *see also* Harrison, R. J., & others. Reproduction in some Pinnipedia. 1952. No. 22448.

**24238. MATTHEWS, WILLIAM KLESMANN, 1901-** . Languages of the U.S.S.R. Cambridge [Eng.], University Press, 1951. ix, 178 p., 5 maps, 13 diagrs.

*Contains* a short and comprehensive review of languages spoken in the Soviet Union, divided into six large groups: Paleoasiatic, Uralic, Altaic, North Cau-

casian, South Caucasian and Indoeuro-pean. The first two of these groups include the languages of peoples native to the European Russian and Siberian North. Not considered, however, are those languages, of which the homeland lies outside the borders of the U.S.S.R., despite their wide dissemination in that country. Controversies on the relationship of different linguistic groups are not dealt with in any detail, but existing theories are stressed briefly. Tabular statistics are given for each people. Extensive bibliography is appended. This work is reviewed by A. Burgmann in *Anthropos, Ephemeris*, 1952, Bd. 47, no. 3-4, p. 691. **Copy seen:** MH.

**24239. MATTICK, FRITZ.** Die Flechte *Tholurna dissimilis* in Nordamerika? (Svensk botanisk tidskrift, 1950. Bd. 44, häfte 2, p. 473) **Title tr.:** The lichen *Tholurna dissimilis* in North America?

*Contains* a report of the author on finding in 1939, a specimen of *Tholurna dissimilis* with a Labrador label in the Herbarium of Botanical Museum in Berlin. The specimen was destroyed during the war; the same lichen was reported recently to be in the Herbarium in Geneva, Switzerland, marked as native to North America.

**Copy seen:** DSI-M; MH-A.

**24240. MATTICK, FRITZ.** Die Flechten Spitzbergens. (Polarforschung, 1949, pub. 1950. Bd. 2, Jahrg. 19, p. 261-73) **Title tr.:** The lichens of Spitsbergen.

On the basis of a study of available literature and his own observations on the north and west coasts of West Spitsbergen, 1938 (his collections were destroyed), the author traces the lichenological research in Svalbard from 1773 to 1940; then discusses the history of post-glacial dispersion and present-day distribution of lichens, indicates the families represented on Svalbard, discusses their relation to climate, underlying rock and biotic factors, the lichen associations and topographic considerations. Bibliography (30 items).

**Copy seen:** DGS.

**24241. MATTICK, FRITZ.** Das Problem der bipolaren Flechten. (Polarforschung, 1950, pub. 1951. Bd. 2, Jahrg. 20, p. 341-45) **Title tr.:** The problem of the bipolar lichens.

Discussion of plant migration, current paleobotanical and paleogeologic theories

which might explain (specifically) the existence at both poles of certain species of lichens, but generally the whole problem of bipolarity. Bibliography (12 items). **Copy seen:** DGS.

**24242. MATVEEVA, T. A.** *Biologičeskaja Mytilus edulis* L. Vostochnogo Murmana. (Akademicheskaja nauka SSSR. Murmanskaja biologicheskaja stantsija. Dal'niye Zelen'sy. Trudy, 1948. t. 1, p. 215-41, illus., map) **Title tr.:** The biology of *Mytilus edulis* L. of the eastern Murman.

Studies on the biology of this common and widespread sea-mussel led to the conclusion that its biomass occupies the first place, exceeding many times that of other common species. Population densities on various substrates are given, together with age analyses. Reproduction rates are quoted in relation to age (size) and to annual weather variations. The seasonal growth-rate is studied and analyzed. Bibliography (25 items).

**Copy seen:** DLC.

**24243. MATVEEVA, T. A.** Sezonnyye izmeneniya litoral'nogo naseleniya na kamenistoi fashii v gube Dal'ne-Zelen'skoi. (Akademicheskaja nauka SSSR. Murmanskaja biologicheskaja stantsija. Dal'niye Zelen'sy. Trudy, 1948. t. 1, p. 123-45, tables) **Title tr.:** Seasonal changes of the littoral population on the rocky grounds in Dal'niye Zelen'sy Bay.

Following an outline of the local climate, six different levels of the bios are analyzed; the seasonal fluctuation is demonstrated by quantitative analyses of the plants and animals in February, May, August and November; qualitative aspects and the problem of distribution are included. Bibliography (12 items).

**Copy seen:** DLC.

**MATVEEVA, T. A.,** see also Kuznetsov, V. V., & T. A. Matveeva. Materialy k bioekol. kharakteristike. 1948. No. 23567.

**24244. MAUPERTUIS, PIERRE LOUIS MOREAU de, 1698-1759.** La figure de la terre, déterminée par les observations de Messieurs de Maupertuis, Clairaut, Camus, Le Monnier . . . & de M. l'abbé Outhier . . . accompagnés de M. Celsius . . . faites par ordre du Roy au cercle polaire, par M. de Maupertuis. Paris, Imprimerie Royale, 1738. xxiv, [4], 184 p., ix fold. plates (diags.) map. **Title tr.:** The shape of the earth, determined

by the observations of M. de Maupertuis, Clairaut, Camus, Le Monnier and Abbé Outhier, accompanied by M. Celsius, made by order of the King, at the Arctic Circle.

Preface (p. iii-xxiv) is resumé of the historic controversy on, and practical importance of the shape of the earth; the problem of determining to what extent this spheroid is flattened at the poles; the sending of two French expeditions one to the Equator and the other to the Arctic Circle to make meridian and gravity measurements. Preface is followed (p. 1-78) by de Maupertuis' lecture before the French Academy of Sciences, Nov. 13, 1737, on the measuring of the meridian degree at the Arctic Circle. It includes a brief account of the French scientists' expedition June 1736-June 1737 to the Torneå region of northern Sweden and (in detail) their work. Appended (p. 79-152) are their observational data and calculations. Finally (p. 153-84) author summarizes results of their pendulum measurements at Pello 66°48' N. (noting effect of temperature on instruments).

This work was recently noted by G. Schindler in his *Polarforschung von Mehr als 200 Jahren*, 1950, q. v.

**Copy seen:** DLC.

**24245. MAURACH, REINHART.** Spitzbergen zwischen Osten und Westen. (Zeitschrift für Geopolitik, 1951. Bd. 22, no. 6, p. 349-58, 2 sketch maps) **Title tr.:** Spitsbergen between the East and West.

Contains discussion of the military importance of Spitsbergen in case of war; pointing out that the economic value of the coal mines is small, but that the islands, from which navigation in the Barents Sea easily can be harassed, are strategically important, and that the Russians want to be first to control them; that Russian interest in the Arctic is evidenced in the seizure of Franz Josef Land in 1929 and of Victoria Island in 1932; that Norway's undertaking to keep Spitsbergen neutral and demilitarized could not be maintained in case of war, as events of World War II testify.

**Copy seen:** DLC.

**24246. MAURER, J., and C. DORNO.** Über den Verlauf und die geographische Verbreitung der atmosphärisch-optischen Störung 1912-1913. (Meteorologische Zeitschrift, 1914. Bd. 31, p. 49-62, fig., 4 tables) **Title tr.:** On the course and

geographical distribution of the atmospheric optical disturbance of 1912-1913.

"Thorough observations kept, tabulated and analyzed. Graph shows variations in actinometrical and optical elements in the turbidity period of 1912. Tables show geographical distribution of optical phenomena with dates and intensities, radiation, Arago's point, Babinet's point, and air electricity measurements."—*Meteorological abstracts and bibliography*, June 1950. v. 1, no. 6, p. 374.

**Copy seen:** DWB.

**MAUSS, M.**, see Sanders, I. T. Societies around the world. 1952. No. 25824.

**24247. MAVRODIN, VLADIMIR VASIL'EVICH, 1908-** . Nachalo morekhodstva na Rusi. [Leningrad] Izd-vo Leningradskogo gos. universiteta, 1949. 147 p., 2 fold. col. maps (in pocket) **Title tr.:** Beginning of navigation in Russia.

Historical study to the 13th century, with considerable scattered information on northern regions. Chapters on the first reports on navigation among the eastern Slavs; Russian navigation during the formation of the Kiev government, in the peak of its power and during the feudal disintegration (till about 1230); final chapter on Russian vessels.

**Copy seen:** DLC.

**24248. MAY, ALAN G.** Mummies from Alaska. (Natural history, Mar. 1951. v. 60, p. 114-19, illus.)

The author, who aided A. Hrdlička in the Aleutian Islands archeological survey, 1936-38, describes the localities investigated on Kagamil Island and Ship Rock (Tanginak Island), also the mummies and objects found with them; he outlines the history of such discoveries beginning with reports in 1790 and with the first removal of specimens from their original site to museums in 1875.

**Copy seen:** DGS; DSI-M.

**MAY, BOB**, see Dunbar, M. J. Caribou NE. Ungava. 1950. No. 21568.

**24249. MAY, JACQUES M.** Map of the world distribution of poliomyelitis. (Geographical review, Jan. 1950, v. 40, p. 646-48, fold. map in pocket)

Contains an explanatory article on the map "Epidemiology of poliomyelitis" the first of an series that will eventually make up the American Geographical Society's projected Atlas of diseases. Sources of information, groupings on the map, age groups, symbols, etc., are dis-

cussed. The map has on verso, lists of published and other sources with regional breakdowns. According to the map polio occurs in all major arctic regions and north of 70°N. lat. (Khatanga basin and estuary, Nordkap).

**Copy seen:** DLC.

**24250. MAYER, JEAN, and W. A. KREHL.** Scorbatic symptoms in vitamin A-deficient rats. (Archives of biochemistry, Feb. 1948. v. 16, p. 313-14)

Contains a letter to the editor announcing that certain symptoms of scurvy like bleeding of lachrymal glands, swollen and bleeding gums, and paralysis of the forelegs, were observed in vitamin A-deficient rats; also blood ascorbic acid levels were lowered and while the adrenal weight was 2-4 times larger than in controls, the total ascorbic acid was consistently lower. Bibliography (4 items).

**Copy seen:** DLC.

**24251. MAYOKOK, ROBERT.** I was a failure as a polar bear hunter. (Alaska sportsman, Feb. 1950. v. 16, no. 2, p. 6-9, illus.)

An Eskimo of the Cape Prince of Wales community relates how bear hunting is carried on today by the West Alaska Eskimos.

**Copy seen:** DI.

**24252. MAYOKOK, ROBERT.** Seals (Alaska sportsman, May 1950. v. 16, p. 20-21, 29-31, illus.)

West Alaska Eskimo sealing on the moving ice off Cape Prince of Wales, Bering Strait is described.

**Copy seen:** DI.

**24253. MAYOKOK, ROBERT.** We caught a whale. (Alaska sportsman, July 1950. v. 16, no. 7, p. 10-13, 24 illus.)

West Alaska Eskimo men in umiaks, using bomb-gun harpoons, killed a great whale, only to lose it when the shore ice broke away.

**Copy seen:** DI.

**24254. MAYR, GUSTAV L., 1830-1908.** Beitrag zur Ameisen-fauna Russlands. (Stettiner entomologische Zeitung, 1859. Bd. 20, no. 1-3, p. 87-90) **Title tr.:** A contribution to the ant fauna of Russia.

Contains a revised list of 49 species of ants inhabiting Russia, with data on their geographic distribution, including northern provinces of European Russia, Siberia, Finland and Sitka (now Wrangell) Island (one species).

**Copy seen:** MH-Z.

**24255. MAZAROVICH, A. N.** Stratigrafiia pestrosvetnykh obrazovanii verkhnei permii i nizhnego triasa Russkoi platformy. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1939. Novaia seriia, t. 47. Otdel. geol. t. 17, vyp. 1, p. 3-25, illus., text map) **Title tr.:** Stratigraphy of the continental deposits of the Upper Permian and lower Triassic of the Russian platform.

Contains a study of three zones of red rocks of the Upper Permian and Low Triass of the Russian plateau; the connection of these zones with those of the Northern Dvina region and Ural folding are discussed; bibliography (34 items). Summary in French.

**Copy seen:** DLC; MH-Z.

**MEAD, JERE**, see Bader, M. E., & J. Mead. Individual differences vascular responses to cold. 1950. No. 20394.

**24256. MEANEY, C. D.** The Aleutian spillways. (Military engineer, Jan.-Feb. 1950. v. 42, p. 28-32, illus., map)

Useful description for the layman, of the tides and currents of Aleutian waters, with introductory notes on the general character and discovery of the islands.

**Copy seen:** DGS; DLC.

**MECKING, LUDWIG, 1879-**, see Nordenskjöld, N. O. G., & L. Mecking. Geography of the polar regions. 1928, 1950. No. 24688.

**24257. MEDBØ, ODD.** SAS nye rute over arktisk område. (Norsk polar-tidende, no. 7-12; Polarårboken 1952, p. 33-36, illus., map.) Text in Norwegian and English. **Title tr.:** The new SAS-transpolar flight.

Contains information on the preparatory phase of Scandinavian Airlines System's project to establish a regular service via Greenland to the U. S. west coast and Tokyo sometime in 1953. The Thule military airfield and base, arctic weather and air navigation and its special problems, special measures and precautions taken for the test flights, routes etc., are briefly discussed.

**Copy seen:** CaMAI.

**24258. MEDER, G. R.** Otchet o sobiraniu estestvenno-istoricheskikh kollektsii vo vremia plavaniia Gidrograficheskoi ekspeditsii Vostochnago okeana v 1914 godu. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1915, pub. 1916. t. 20, no. 4, p. lxxiii-xcl, illus.)

**Title tr.:** Summary of the natural

history work undertaken during the Hydrographic Expedition to the Pacific Ocean in 1914.

Contains data on the botanical and zoological collections made on Sakhalin Island, the Okhotsk Sea coast and Svyatoy Iony (St. Jonas) Island, 56°24' N. 143°23' E. in Okhotsk Sea; description of ten stations established in Okhotsk Sea by the transport *Okhotsk*, with data on location, depth, bottom deposits, temperature and specific weight of the sea-water; a list of 30 plankton stations and descriptive notes on marine and land fauna.

**Copy seen:** DLC; MH-Z.

**24259. MEDICAL RESEARCH COUNCIL (Great Britain).** Vitamin-C requirement of human adults, experimental study of vitamin-C deprivation in man; a preliminary report by the Vitamin C Subcommittee of the Accessory Food Factors Committee, Medical Research Council. (Lancet, June 5, 1948. v. 254, p. 853-58)

Contains a study on volunteers (19 men and one woman) aged 21-34, conducted for 15 months. The experimental group was deprived of vitamin C and given graded doses of it when signs of deficiency appeared; the controls had supplements of the vitamin given from the start, in addition to the basal diet containing about 1 mg. vitamin C, taken by both groups. First symptoms appeared in the 18th week and were followed by others, affecting all or only some individuals, and are presented in detail together with supplementary observations, tests, etc. Vitamin C content of blood and plasma and other blood examinations in the various control groups are also presented. Studies on healing of experimental wounds, were also conducted on all groups. The "minimal protective dose" against scurvy under the conditions of the experiment, including protection against abnormal wound healing, was about 10 mg. daily. However, this should not be considered as optimal dose. Bibliography (over 20 items).

**Copy seen:** DLC.

**24260. MEDILL, ROBERT BELL, 1869-1945.** Klondike diary; true account of the Klondike rush of 1897-1898. Portland, Or., Beattie, c1949. iv, 188 p., illus., ports.

**Copy seen:** DLC.

**24261. MEDVEDEV, P. M.** O predele lesa i prichinakh bezlesii tundr Azii. (Vsesoiuznoe geograficheskoe obshches-

tvo. *Izvestiia*, 1952. t. 84, vyp. 3, p. 229-37) **Title tr.:** On the forest limits and the causes of lack of forests in the tundras of Asia.

*Contains* an analysis of the factors setting forest limits and causing treelessness of the tundra. Using other sources as well as his studies, the author enumerates as follows: (1) presence of permafrost and late spring thawing (particularly in the Kola tundra); (2) the gap between the beginning of vegetation and the thawing of the root system, which leads to the death of the tree; (3) the larch (which forms the tree limit in Asia) needs, as a continental tree, a sharp rise in temperature of the air and soil, during spring and summer for normal growth and seed bearing, which explains both the tree limit and treelessness of certain areas of Asia. Bibliography (33 items).

**Copy seen:** DLC.

**24262. MEEK, JACK H.** Ionospheric disturbances in Canada. (*Journal of geophysical research*, June 1952. v. 57, p. 177-90, diags., sketch maps)

*Contains* results of a detailed analysis "of variations of *F* region ionization and of abnormally high absorption taking place during ionospherically disturbed periods at northern latitudes. It was found that the disturbance effect appears first in one part of the auroral zone and moves around the earth with the sun for several days." Based on data from stations at Kiruna in Sweden (westward) to Adak in Alaska, and north to Resolute Bay on Cornwallis Island in the Canadian Arctic.

**Copy seen:** DGS.

**24262A. MEEK, JACK H.** Sporadic ionization at high latitudes. (*Journal of geophysical research*, Dec. 1949. v. 54, no. 4, p. 339-45, 12 figs.)

"Sporadic ionization is here defined as changing very rapidly and erratically. It was investigated by multifrequency vertical beams at Baker Lake, Canada. Four types are described in E and F layers. Assuming that they are due to ionospheric clouds, speeds vary on the average from 400 km./hr. at 100 km. to 1,200 at 300 km. Maximum frequency about 57° N. lat."—*Meteorological abstracts and bibliography*, June 1951. v. 2, no. 6. p. 449.

**Copy seen:** DLC; MH-BH.

**24263. MEEN, VICTOR BEN, 1910-** The Canadian meteor crater. (*Scientific*

*American*, May 1951. v. 184, no. 5, p. 64-69, illus., map, diagr.)

"Account of the discovery and exploration of the two-mile crater on the barrens near Hudson Bay," 61°17' N. 73°40' W., July 1950, with descriptions of the surrounding terrain, the broken granite rocks of the 300-500 ft. high rims, and evidences of its meteoritic origin (shape of rim, joint pattern radiating from center, ridges surrounding crater which appeared as concentric ripples apparently caused by compression, marks of a splash effect in the form of great trenches or rifts cut through the crater rim with ridges of fragments continuing out onto the plain). The party named the crater Chubb Crater, for F. W. Chubb who participated in its exploration.

**Copy seen:** DLC.

**24264. MEEN, VICTOR BEN, 1910-** Chubb crater, Ungava, Quebec. (*Geological Association of Canada. Proceedings*, 1951. v. 4, p. 49-59, illus., 2 sketch maps)

*Contains* a description of the physiographic and geologic features of a crater in the granite terrain of Ungava Peninsula (61°17' N. 73°40' W.). A meteoric origin of the crater is postulated, on the basis of its circular shape, high rim, directions of jointing, and absence of volcanic materials in the area.

**Copy seen:** DGS.

**MEEN, VICTOR BEN**, *see also Explorers journal*. Scientists bring proof Chubb Crater meteorite. 1952. No. 21725.

**24265. MEHNERT, KLAUS.** Survey of Slavic and East European studies in Germany since 1945. (*American Slavic and East European review*, Oct. 1950. v. 9, p. 191-206)

Includes brief note (p. 203-206) on the work of L. L. Breftfus and Baron Roderich Bistram in bibliographic and geographic research on arctic regions.

**Copy seen:** DLC.

**24266. MEIER, N. F.** Paraziticheskie pereponchatokrylye sem. Ichneumonidae SSSR i soprodel'nykh stran. Vyp. I, Ichneumoninae; II, Cryptinae; III, Pimplinae; IV, Ophioninae; V-VI, Tryphoninae. Leningrad-Moskva, Izd-vo Akademii nauk SSSR, 1933-36. **Title tr.:** Parasitic Hymenoptera (fam. Ichneumonidae) of the U.S.S.R. and adjacent

countries. Pt. I, Ichneumoninae; II, Cryptinae; III, Pimplinae; IV, Ophioninae; V-VI, Tryphoninae. 6 pt: 458, 325, 271, 535, 340, 356 p., illus. in each pt. (In: Akademiia nauk SSSR. Opredeliteli po faune SSSR. (I) is No. 9, 1933; (II) No. 15, 1933; (III), No. 15, 1934; (IV), No. 16, 1935; (V), No. 21, 1936; (VI), No. 22, 1936)

Contains in pt. I, an introduction, a discussion of the role of the ichneumon parasitic flies as a factor in control of many injurious insects, and a table for the determination of the subfamilies, and (in each part) a morphological sketch of the subfamily studied and keys for the determination of tribes, genera and species, descriptions, synonymy and data on distribution in the U.S.S.R. and in adjoining countries of Europe and Asia; a list of parasites arranged by hosts in pt. VI, p. 279-309, and an index of Latin names, pt. VI, p. 310-356. **Copy seen:** DLC (pt. 2-6 in vyp. 15-16, 21-22); MH-Z. (pt. 1-6).

**24267. MEIER, N. F.** Zur Kenntnis der Gattungen *Cryptus* F. und *Caenocryptus* Thoms. (Hymenoptera, Ichneumonidae). (Konowia, 1934. Bd. 13, heft. 1, p. 35-46; heft 3, p. 203-213) **Title tr.:** A contribution to the knowledge of the genera *Cryptus* F. and *Caenocryptus* Thoms.

Contains synopsis of the species of ichneumon flies of the genera *Cryptus* and *Caenocryptus*, from various regions, with brief descriptions and data on geographic distribution, including *C. albatorius* var. *tibulator* from Swedish Lapland and *C. kamtschaticus* native to the Kamchatka Peninsula. **Copy seen:** MH-Z.

**24268. MEINANDER, RUNAR.** Beräkning av det nattliga temperatur-minimet vid frostprognoser. (Terra, 1942. 54:3-4, p. 244-51, tables) **Title tr.:** Calculating the minimum night temperature in frost prognoses.

A simple formula:  $t_m = t^1 - a_2$  (proposed by Angström) is claimed to enable a prediction of the minimal night temperature ( $t_m$ ), from the reading of the wet thermometer at a given time ( $t^1$ ) and a constant ( $a_2$ ) depending on the locality and season. Comparisons between predictions and actual readings showed an average overestimate of 1.7° C. in the calculated value. A correction of the  $a_2$  value enables a closer prediction in a majority of cases. Summary in German.

**Copy seen:** DLC.

**24269. MEINARDUS, WILHELM, 1867-** O godovom khode osvshcheniia v polüarnykh stranakh. (Mirovedenie, 1932. no. 5, p. 28-31, diagr.) **Title tr.:** On the annual course of illumination in the polar regions.

A diagrammatic representation (p. 30) of the amount of daily solar and dispersed light at any locality in the polar regions at any time during the year, with explanation of how this diagram is to be interpreted. See also the author's *Zum jahreszeitlichen Gang der Beleuchtung in den Polargebieten* (Arctic Bibliography, No. 11195). **Copy seen:** DLC.

**24270. MEINEL, A. B.** Evidence for the entry into the upper atmosphere of high speed protons during auroral activity. (Science, Nov. 1950. v. 112, no. 2916, p. 590)

Contains a preliminary report on one result obtained with the spectrograph designed by the author, during the intense auroral activity on the night of Aug. 19-20, 1950. It was established for the first time that protons, probably of solar origin, penetrate into the upper atmosphere at velocities of 2500-3000 km. per second. Bibliography (2 items).

**Copy seen:** DA.

**24271. MEINERT, FREDRIK, 1833-1912.** Fortegnelse over Zoologisk Museums billelvarer. Larvae Coleopterorum Musei Hauniensis. (Entomologiska meddelelser, 1891-92, pub. 1892. Bd. 3, hefte 4, p. 167-92, hefte 5, p. 193-205; 1893-94, pub. 1892. Bd. 4, hefte 2-3, p. 49-110) **Title tr.:** List of the larvae of Coleoptera of Copenhagen Zoological Museum.

Contains a list of 747 larvae of Coleoptera (in 460 genera) from various regions (Europe, Asia, Africa, North and South America), with place of origin, data on collector and collection and occasional critical notes; includes some species native to Greenland.

**Copy seen:** DA; MH-Z.

**MEINERT, FREDRIK, 1833-1912, see also Bertrand, H.** Notice sur larves de Dytiscides. 1931. No. 20641.

**24272. MEINHOLD, R.** Kann man in den Polargebieten mittels Flugzeug Erdöllagerstätten feststellen? (Polarforschung, 1948, pub. 1950. Bd. 2, Jahrg. 18, p. 9-12, i. e. p. 205-208) **Title tr.:** Can petroleum deposits be located by airplane in polar regions?

Discussion of the limitations of airborne magnetometer investigations, their usefulness for areal surveys and as a preliminary tool, followed by field work and boring tests. Bibliography (8 items).

**Copy seen:** DGS.

**24273. MEINKE, W. WAYNE.** Observations on radioactive snows at Ann Arbor, Michigan. (Science, May 11, 1951. v. 113, p. 545-46)

Results of "rigorous chemical separations performed on radioactivities found in snows . . . after the Las Vegas atomic test explosions [Jan. 27-Feb. 6] have definitely established the presence of radioactive rare earth isotopes, barium and/or strontium isotopes, and have shown the possible presence of iodine isotopes."

**Copy seen:** DGS; DLC.

**24274. MEINSHAUSEN, KARL FEDOROVICH, 1819-1889.** Die Sparganien Russlands insbesondere die Arten der ingermanländischen Flora. Ein Beitrag zur Kenntniss der Flora Russlands. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1890. novaiâ seriâ, t. 3, p. 167-75) **Title tr.:** Russian species of *Sparganium*, especially those of the Ingermanland flora. A contribution to the knowledge of Russian flora.

Contains a critical revision of eight species (two new) of herbs of the aquatic genus *Sparganium*, including Latin diagnoses of *S. natans*, native to Swedish Lapland and *S. angustifolium* from northern Scandinavia and Kola Peninsula.

**Copy seen:** DLC; MH-A.

**24275. MEISEL'MAN, A.** Lam; ocherki Okhotsko - Kamchatskogo kraia. [Moskva] Molodaiâ gvardiâ, 1931. 222 p., illus. **Title tr.:** Lam, sketches of the Okhotsk-Kamchatka region.

Account of a journey, written for youth, describing the country and people (Tungus, Russians, etc.) around the Okhotsk Sea; their customs, language and songs; fisheries of the region; glimpses of Japan.

**Copy seen:** DLC.

**MELAN, A. J.,** see Kivirikko, K. E. Suomen selkäränkaiset. 1940. No. 23281.

**24276. MELANDER, G.** Is it possible to study directly the nature of the auroral rays? Helsinki, 1931. 5 p. (Suomalainen tiedeakatemia. Annales Academiae scientiarum fennicae, A33:12)

Author suggests new method of investigating nature and effects of auroral

rays, e. g. to test if they are of same nature as cathode rays by sending aloft "a little piece of very sensitive photographic film . . . enclosed in a small and light-proof wooden film holder which would be fixed to a balloon sonde of great dimensions. A piece of . . . platinum in front of the film holder could be the solid exposed to the cathode rays which emanate Röntgen rays."

**Copy seen:** DLC.

**24277. MELANDER, G.** Sur l'origine commune de toutes des décharges électriques dans l'atmosphère. Helsinki, 1924. 30 p., illus, diagrs. (Suomalainen tiedeakatemia. Annales Academiae scientiarum fennicae, A23:6) **Title tr.:** The common origin of all electric discharges of the atmosphere.

Author discusses modern theories and his own views on electric discharges including auroras.

**Copy seen:** DLC.

**24278. MELANDER, K. R.** Pohjanmaan entisistä rajoista. Helsinki, 1927. 19 p., map. (Fennia, 47:2) **Title tr.:** Former boundaries in Pohjanmaa.

Historical sketch of the geographic locations of former (mainly district) boundaries in this northern province of Finland (formerly the districts of Vesterbotten and Österbotten). Bibliography (15 items).

**Copy seen:** DLC.

**24279. MELCHIOR, ADOLF, 1898-** De eerste walvisvaart van de "Willem Barendsz." Met een inleiding van W. H. Bierman. Haarlem, Gottmer [1947?] 233 p., illus., ports., map (on lining paper). **Title tr.:** The first whaling trip of the *Willem Barendsz.* With an introduction by W. H. Bierman.

Account (by the ship's doctor) of this noted modern whaler's maiden expedition, 1946-47 to the Antarctic whaling grounds, with a preliminary historical chapter on whaling in the Arctic, including Netherlanders' Greenland whaling. Incidental information and numerous illustrations (based on sketches) of the ship (whaling "factory" type), its equipment, activities, etc. are included.

**Copy seen:** DLC.

**24280. MELDERIS, A.** The short-awned species of the genus *Roegneria* of Scotland, Iceland and Greenland. (Svensk botanisk tidskrift, 1950. Bd. 44, häfte 1, p. 132-66, illus.)

Contains critical notes on eight short-awned grasses of the genus *Roegneria*

with Latin descriptions, including *R. doniana* var. *virescens* n. comb. (60°16' N.) and *R. borealis* var. *hyperarctica* n. comb. (73°10'–74°05' N.) and *R. violacea* n. comb., s. amplif. from West Greenland.

**Copy seen:** DA; MH-Z.

**24281. MELDGAARD, JÖRGEN.** The Paleo-Eskimo culture of west Greenland. (American antiquity. Jan. 1952. v. 17, no. 3, p. 222–30, illus.)

Contains a description of 182 stone artifacts, collected in 1948 by Hans Mosegaard at Sarqaq, Ritenbenk District, Disko Bay. The artifacts include blades, burins, scrapers, lamps, etc. An analytical review of the finds suggests important differences from the Dorset culture and close similarity with types found in Alaska. The Sarqaq material probably represents an Eskimo culture "closely related to the earliest Eskimo cultures in Alaska, which appeared in West Greenland after wanderings without lengthy stops;" the relative position, with regard to other Eskimo cultures is also discussed. Bibliography (21 items).

**Copy seen:** DSI-M.

**MELDGAARD, JÖRGEN**, see also Bandi, H. G., & J. Meldgaard. Archaeological investigations Clavering Ø, NE Greenland. 1952. No. 20439.

**24282. MELEKHOV, I. S.** Izuchenie pozharov v lesakh severa. (Lesnoe khoz'istvo, Mar. 1939, no. 3, p. 48–52, tables) **Title tr.:** A study of fires in the forests of the North.

Contains a report of a study made in the Arkhangel'sk and Vologda oblast' during 1937. Deals with the effect of the ground flora, kind of timber, wind, rain, etc., on the speed of advance of forest fires. The role of railroads and steam driven trains in starting fires is discussed; also: fire fighting with old methods and with chemicals; the role of aviation in locating fires and in parachuting fire fighters and equipment.

**Copy seen:** DLC.

**24283. MELENT'EV, B. N., and others.** Calcite in the decomposed tectonic zones of the Chibiny tundras. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1941. nouv. ser., v. 31, no. 8, p. 782–83, table) **Other authors:** P. K. Semenov and P. N. Chirvinskii.

"Describes a brown carbonate forming veinlets and pseudomorphs in a decomposed monchiquite. Chemical analysis

is given. Besides Ca, the cations Sr, Mg, Fe and Mn are found."—Geological Society of America, *Bibliography and index of geology*, 1941–42. v. 9, p. 192.

**Copy seen:** DLC.

**24284. MELENT'EV, B. N.** Formulae for determining nepheline and pyroxenes in apatite-nepheline ores of the Chibiny tundras. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1944. nouv. ser., v. 44, no. 9, p. 378–80, diagr.)

Formulae and tables to enable the solving of a number of practical and theoretical problems of these ores of Khibiny, with a reminder that consideration should also be given to geological and petrographic aspects.

**Copy seen:** DLC.

**MELENT'EV, B. N.,** see also Gileva, Z. M., & B. N. Melent'ev. Arsenic in apatites of Khibiny tundras. 1939. No. 22108.

**MELENT'EV, B. N.,** see also Volkova, M. I., & B. N. Melent'ev. Chemical composition of Khibiny apatites. 1939. No. 27164.

**24285. MELETIN, KONSTANTIN.** Khatango-Anabarskii raion. (Taiga i tundra, 1928, no. 1, p. 12–15) **Title tr.:** The Khatanga-Anabar region.

Contains description of the (then) current conditions in the region, its inhabitants (mostly Yakuts, with some Tungus, Dolgans, and Samoyeds), their occupation (reindeer breeding and hunting), earnings, political and juridical situation, etc. The author is a Dolgan.

**Copy seen:** DSI-E.

**MELLING, THOMAS**, see Crile, G. W., & D. P. Quiring. Indian & Eskimo metabolisms. 1939. No. 21309.

**MELNICK, JOSEPH L.,** see Paul, J. R., & others. Antibodies polio. N. Alaskan Eskimos. 1950. No. 24995.

**24286. MEL'NIKOV, M. P., d. 1900.** Materialy po geologii Kol'skogo Poluoostrova. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1895. ser. 2, chast' 30, p. 105–239) **Title tr.:** Materials on the geology of Kola Peninsula.

Contains data on the geology and petrology of Kola gathered by the author during his expedition in 1890, with a critical survey of the literature on the region (p. 107–166) including extensive summaries of the works and geological

abstracts. A general account is given of the author's trip in 1890 by steamer from Arkhangel'sk to Gavrilovo, Teriberka, and Kola, and on foot from Kola through Imandra and Khibiny tundra to Kandalaksha, the structure and content of the observed rock formations are described, with a few chemical analyses of the rocks.

**Copy seen:** MH-Z.

**24287. MEL'NIKOV, M. P., d. 1900.** Petrograficheskie zamêtki. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1891. ser. 2, chast' 28, p. 195-211) **Title tr.:** Petrographic notes.

*Contains* a petrographic study of marekanite, a peculiar globular rock of unstable structure first discovered near the mouth of Marekanka River, emptying into Penzhina Bay of the Sea of Okhotsk and then found in the Caucasus Mts. and some other localities.

**Copy seen:** MH-Z.

**24288. MEL'NIKOV, M. P., d. 1900.** Petrograficheskie zamêtki. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1895. Ser. 2, chast' 30, p. 355-98) **Title tr.:** Petrographic notes.

*Contains* microscopic analyses of some minerals in the collection of the Mining Institute of St. Petersburg, including 14 specimens from various localities on Kola Peninsula and from islands near the coast, collected by "Betting" (probably Otto von Böhlingk) in 1839.

**Copy seen:** MH-Z.

**MEL'NIKOV, P. L.,** *see* Efimov, A. I., & others. Podmerzlotnye vody rafona Iakutska. 1945. No. 21610.

**MELVILLE, GEORGE WALLACE, 1841-1912,** *see* U. S. Congress. House. Committee on Naval Affairs. Jeannette inquiry. 1884. No. 26911.

**24289. MENARD, HENRY W., and R. S. DIETZ.** Submarine geology of the Gulf of Alaska. (Geological Society of America. Bulletin, Oct. 1951. v. 62, p. 1263-85, illus., incl. 5 charts, diagrs., 2 plates (diagrs.), fold. chart)

Authors distinguish two topographic provinces in 35 submarine mountains of the gulf: (1) volcanoes with flat tops produced by wave action near sea level, and (2) long low ridges of irregular shapes and relating to Pliocene-Pleistocene orogenic belt, thought to be orogenic mountains. Suggest that eastern Aleut-

ian Trench originated in early Tertiary time, and that its unusual V-shaped profile probably indicates a deep filling of sediment; also that "an earlier trench, now filled with sediment, existed in Mesozoic time at the present site of Kodiak Island and the Kenai Peninsula. Bibliography (31 items).

*Illus., etc.:* Bathymetric chart of the Gulf of Alaska, contour interval 200 fathoms; fathogram profiles.

**Copy seen:** DGS.

**MENDELSON, E. S.,** *see* Bazett, H. C., & others. Precooling blood in arteries. 1948. No. 20518.

**24290. MENĀĬLOV, A. A., and others.** Khrom i fluor v vulkanicheskikh produktakh. Chromium and fluorine in volcanic products. (Vserossiiskoe mineralogicheskoe obshchestvo. Zapiski, 1947. ch. 76, p. 139-46, illus.) *Other authors:* V. V. Danilova and L. N. Indichenko.

A study of rocks from active volcanic centers of northern Kamchatka. Analyses showed that considerable chromium is present in specimens from secondary vents and channels and minor amounts in specimens from the central vents; and that fluorine is present in both acid and basic rocks.—From Geological Society of America, *Bibliography and index of geology*. Brief summary in English at end.

**Copy seen:** DLC.

**MENOVSHCHIKOV, G. A.,** *see* Bogoraz, V. G. Materialy poazyku aziatskikh êskimosov. 1949. No. 20788.

**MENTZE, ERNST,** *editor,* *see* Birket-Smith, K., & others. Grønlands bogen. 1950. No. 20697.

**24291. MENZBIR, MIKHAIL ALEKSANDROVICH, 1855-1935.** Ueber die Entstehung der Fauna der Tundren. (Moskovskoe obshchestvo ispytatelei prirody. Bûlleten', 1923-24. Otdel. biol. Novaiâ seriâ. t. 32, vyp. 1-2, p. 76-98) **Title tr.:** On the origin of tundra fauna.

*Contains* a criticism of the theory of Nehring, q. v., on the succession of fauna in interglacial and post-glacial epochs, based on the study of fauna succession in northern Siberia. The origin of the present fauna of tundra regions and its elements is discussed. Summary in Russian.

**Copy seen:** DLC; MH-Z.

**24292. MEREZHKOVSKIĬ, KONSTANTIN SERGĖEVICH, 1855-1921.** K poz-

naniū lishafnikov Urala. (Tartu (Ür'ev or Dorpat) Estonia. Universitas. Hortus botanicus. Acta, 1910. t. 11, vyp. 2, p. 93-97) **Title tr.:** Contributions to knowledge of the lichens of the Ural.

Contains a list of 24 lichens collected in 1904, in the Northern Urals by the student Khlebnikov, with a description of *Cladonia alpestris* f. *sibirica* n. f., and a key for the determination of five lichens often confounded with *Rhizocarpon geographicum*. **Copy seen:** DA; MH-A.

**24293. MEREZHKOVSKIĬ, KONSTANTIN SERGIĖEVICH, 1855-1921.** On *Wagnerella*, a new genus of sponge nearly allied to the *Physemaria* of Ernst Hackel. (Annals and magazine of natural history, 1878. ser. 5, v. 1, no. 1, p. 70-77, illus., plate 6)

Contains diagnoses of *Wagnerella* n. gen. and *W. borealis* n. sp. found by the author in the White Sea near the Solovetskiye Islands, and critical notes on this new sponge closely related to *Physemaria* of E. Hackel.

**Copy seen:** MH-Z.

**24294. MEREZHKOVSKIĬ, KONSTANTIN SERGIĖEVICH, 1855-1921.** Studies on the Hydroids. (Annals and magazine of natural history, 1878. ser. 5, v. 1, no. 3, p. 239-56; no. 4, p. 322-40, plates 13-15)

Contains a morphological sketch on hydroids, remarks on the reproduction of *Obelia flabellata* and a list of 42 hydroid species collected by the author in the White Sea, including descriptions of two new genera and six new species.

**Copy seen:** MH-Z.

**24295. MEREZHKOVSKIĬ, KONSTANTIN SERGIĖEVICH, 1855-1921.** Ueber einige Turbellarien des Weissen Meeres. (Archiv für Naturgeschichte, 1879. Bd. 45, no. 1, p. 35-55, plate 4) **Title tr.:** On some Turbellaria from the White Sea.

Contains descriptions of whirl-worms, *Alaurella viridirostrum* n. gen. et sp., *Prostromum boreale* and *P. papillatum* n. spp., *Mesostomum grafi* n. sp. and *Dinophilus vorticoides*, collected by the author in 1877 in Solovetskiye Islands waters in the White Sea.

**Copy seen:** MH-Z.

**MEREZHKOVSKIĬ, KONSTANTIN SERGIĖEVICH, 1855-1921, see also** Norman, A. M. Notes *Selaginopsis*. 1878. No. 24723.

**MEREZHKOVSKIĬ, KONSTANTIN SERGIĖEVICH, 1855-1921, see also** Wilhelmi, J. Über *Planaria affinis*. 1907. No. 27397.

**24296. MERIKALLIO, EINARI.** Jäämeren untuva-ja munalaitokset; selostus tutkimusmatkasta Norjaan ja Petsamoon. (Ornis fennica, 1924. 1:2-3, p. 31-39) **Title tr.:** Down and egg production on the Arctic Ocean: results from the trip through Norway and Petsamo.

Contains data on the methods of production of down and eggs, the amounts produced, and the species of ducks, gulls, geese, etc., utilized. **Copy seen:** DLC.

**24297. MERIKALLIO, EINARI.** Suomalaisia lintujen nimiä. (Suomalainen eläin ja kasvitieteellinen seura vanamo. Julkaisuja, 1922. v. 2; no. 1, p. 1-119, 10 sketch maps) **Title tr.:** Finnish names of birds.

Contains data on local Finnish names for 200 birds and indicates (by maps) occurrence of variant names for the same species in different parts of Finland including Lapland; index of Finnish-Latin and Latin-Finnish names. Summary in German. **Copy seen:** DLC.

**24298. MERIKALLIO, EINARI.** Suomen lintujen lukumäärän arvioimisesta. (Suomalainen eläin-ja kasvitieteellinen seura Vanamo. Eläintieteellisiä julkaisuja. Annales zoologici, 1943. 9, p. 20-29, map, table) **Title tr.:** Estimate of bird population in Finland.

Contains a report on quantitative bird estimates begun in 1909. The areas investigated totalled 72 sq. km. with additional 129 sq. km. submitted to less extensive estimation; 299 lakes and 548 km. of rivers (but no coastal areas) are included. All investigations were made during the breeding season. The Lappish and north Finnish areas were best studied. Summary in German.

**Copy seen:** DLC.

**24299. MERISUO, AIMO.** Drei interessante *Crabro*-Funde. (Hymen., Sphecidae). (Notulae entomologicae, 1932. v. 12, no. 4, p. 89-92) **Title tr.:** Three interesting finds of *Crabro* (Hymen., Sphecidae).

Contains notes on finding of two species of *Crabro* (*Anothyreus*) *macklini* and *C. lapponicus* in Kittilä, Finnish Lapland, and description of their nests, built in sand and stored with killed flies.

**Copy seen:** DLC; MH-Z.

**24300. MERRELL, RICHARD H.** The distribution and frequency of Alaskan earthquakes, 1939-1948. (Seismological Society of America Bulletin, Oct. 1950. v. 40, p. 267-69, map)

Brief summary of information on the 500 tremors or earthquakes (none of serious consequence), which were reported, showing their concentration in the central and south-central portions of the Territory. **Copy seen:** DGS.

**24301. MERRILL, JAMES M.** The Greely Relief Expedition, 1884. (United States Naval Institute. Proceedings, Sept. 1951. v. 77, p. 968-78, illus., plate)

Account in brief of the Lady Franklin Bay Expedition, 1881-84, and in some detail, of the third relief expedition's organization, and execution under W. S. Schley; public reaction on its outcome. Author's emphasis is on the intra-Navy Dept. activities connected with the expedition. **Copy seen:** DLC.

**MERRITT, RICHARD G.,** see Miller, M. M., & others. Scientific observations JIRP 1949. 1952. No. 24366.

**24302. MERTENS, ROB.** Aus dem Leben des Seeotters. (Natur und Volk, 1935. v. 65, p. 401-407, map, illus.) **Title tr.:** From the life of the sea otter.

Contains an account of marine mammals generally and a detailed description of the sea-otter: its distribution; occurrence; fur; locomotion; food and dentition; propagation and care of the young; behavior. Bibliographical footnotes. **Copy seen:** DSI-M.

**24303. MESHCHANINOV, IVAN IVANOVICH, 1883-**, and **A. G. CHERNOV.** Vladimir Leont'evich Komarov. Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1946. 100 p. port. (Akademiia nauk SSSR, Materialy k biobibliografii uchenykh SSSR. Seriya biologicheskikh nauk. Botanika, vyp. 1)

Contains important dates of the life and work of the botanist Komarov, and a brief characterization of his scientific, educational and administrative activities (p. 3-19); literature about him (220 items, p. 20-36); a list of plants and insects named in his honor (p. 37-38); bibliography of his publications (661 items, p. 39-86) arranged chronologically, dealing with botany of northern regions of the U. S. S. R., especially Kamchatka Peninsula and eastern Siberia (Yakutia); indices. **Copy seen:** MH.

**24304. MESIATSEV, I. I.** Einige zoogeographische und faunistische Ergebnisse der Expeditionen des Wissenschaftlichen Meeresinstitutes [sic] in die nördlichen Meere. (Akademiia nauk SSSR, Doklady, seriia A, 1927, no. 14, p. 207-212, illus.) **Title tr.:** Some zoogeographic and faunistic results of the expeditions of the Marine Scientific Institute into the northern seas.

A report on the *Persef* research vessel expedition of 1926 into the White and Barents Seas. **Copy seen:** DLC.

**24305. MESIATSEV, I. I.** K organizatsii glub'evogo lova sel'di na Murmane i v Belom more. (Karelo-Murmanskii krai, 1933. v. 11, no. 3-4, p. 63-67, illus., maps) **Title tr.:** On the organization of deep-sea fishing for herring on the Murman coast and in the White Sea.

Contains an outline of hydrographic and biological conditions as affecting the occurrence and migration of local herring schools. Based on these data, a series of suggestions are made as to the seasons of successful fishing and the types of nets to be used. **Copy seen:** DLC.

**MESSERSCHMIDT, DANIEL GOTTLIEB, 1685-1735,** see Klapproth, J. H. Asia polyglotta. 1831. No. 23285.

**METCALF, WILLIAM G.,** see Polar record. Oceanographic investigation Pt. Barrow 1949. 1950. No. 25160.

**24306. METELITSÄ, V.** Proekt BBVP i ego vypolnenie. (Karelo-Murmanskii krai, 1933. v. 11, no. 5-6, p. 12-18, illus.) **Title tr.:** The Belomorskii-Baltiskii Vodnyi Put' (i. e. White Sea-Baltic Canal) project and its fulfilment.

Contains a popular account of the project (to join the White Sea to the Baltic by a system of canals and natural waterways, Lakes Onega and Ladoga and River Svir) and its realization, 1931-33. Deals with the preparatory work and planning; characteristics of the area and the engineering problems and difficulties; scope and character of the earth works, canals, reservoirs and sluices and the economy of the project. Fully illustrated. **Copy seen:** DLC.

**METEOROLOGISCHES AMT FÜR NORWESTDEUTSCHLAND, Hamburg,** see Rodewald, M. Klima u. Wetter Fischereigebiets Bäreninsel. 1949. No. 25620.

**METSATEHO**, see Hakkarainen, A. E. Lumi- ja jääteiden käytön suhteista. 1950. No. 22372.

**METSATEHO**, see also Hakkarainen, A. E. Maan routaantumisesta kannalta. 1948. No. 22373.

**24307. METSÄ-TALOUEDELLINEN AIKAKAUSLEHTI.** Poroviiikko helmikuun 3-11 Päivinä. (Metsä-taloudellinen aikakauslehti (Finska forstföreningen), 1951. no. 1, p. 17, illus.) **Title tr.:** Reindeer week, Feb. 3-11.

Contains a description of activities planned for the observance of a Reindeer Week in Finland to further knowledge and understanding of the part played by reindeer in the life and economy of the Laplanders. **Copy seen:** DA.

**24308. METSÄNHEIMO, U.** Teruavuoma. (Metsä-taloudellinen aikakauslehti (Finska forstföreningen), 1951. v. 66, no. 1, p. 31-32, illus.)

Contains brief account (in Finnish) of the natural history of this bog near the Muonio River in northern Finland, covering 15,000 hectares at 150-170 m. elevation; the drainage work started in 1931 and is still in progress; results of early tree planting and farming on the reclaimed areas. **Copy seen:** DA.

**24309. METSÄPELTO, E. E.** Suomen yhteismetsät. Helsinki, 1940. 41 p., tables. (Acta forestalia fennica, 49:1) **Title tr.:** Privately-owned forests in Finland.

Contains data on type and size of forests owned by private companies, cooperatives, etc. (as distinct from state forests) in northern Finland; government regulations, age characteristics of the trees, timber in reserve, amounts of felling per year and per hectare, also transportation costs. Summary in German, p. 38-41. **Copy seen:** DLC.

**24310. METSÄVAINIO, KAARLO.** Oulun seudun talvisiemennäjä. (Suomalainen eläin- ja kasvitieteellinen seura vanamo. Julkaisuja, 1923. 3:5, p. 166-225, 3 illus. plates, tables) **Title tr.:** The winter seeding plants in the Oulu area.

Contains list of 187 winter seeding plants in the Oulu (Uleåborg) area; their various habitats (forest, swamp, seashore, river bank, and farmland, etc.); observations on time of seeding and number of seeds for various types of plants;

means by which seeds spread in winter (wind, snow, birds, spring floods and streams); sprouting ability of winter seeds (tabulation of sprouting dates for 61 species). Summary in German.

**Copy seen:** DLC.

**24311. METSÄVAINIO, KAARLO.** Studien über das Vorkommen der Wasserkäfer in verschiedenen Gewässern. (Notulae entomologicae 1922. v. 2, no. 4, p. 97-108) **Title tr.:** Studies on occurrence of aquatic beetles in various waters.

Contains description of various types of water basins and a list of 129 aquatic beetles with tabulated data on their distribution in various waters and in various geographic regions; includes 6 species native to arctic regions.

**Copy seen:** DLC; MH-Z.

**24312. METSIKKÖ, EINO.** Vähän Petsamon rannikon litoraalivyhykkeen nilviäiseläimistöä. (Luonnon tutkija, 1937. v. 41, no. 3, p. 96-104, illus., table) **Title tr.:** Notes on the molluscan fauna in the littoral belt of the Petsamo coast.

Contains field notes on molluscan species found along the Barents Sea coast of Finland. The author used 15 observation places near Petsamo, Liinahamari and Rybachiy Peninsula for purposes of local comparisons. The forms observed belonged to the Placophora, Lamellibranchiata and Gastropoda groups. Bibliography (10 items). **Copy seen:** DLC.

**24313. METZGER, ADOLF A. TH.** Die jatulischen Bildungen von Suojärvi in Ostfinnland. Helsinki, 1924. 86 p., 2 plates (fold. map., illus.), maps, diagrs. (Finland. Geologiska kommission. Bulletin, 11:64) **Title tr.:** The Jatulic formations of Suojärvi, eastern Finland.

Contains a general description of the area; description of the different rocks; (1) archaic granitic gneiss, (2) Jatulic sediments, and (3) post-Jatulic eruptive rocks; stratigraphy and tectonics of the area; description of the landscape. Bibliography (90 items). **Copy seen:** DLC.

**24314. METZGER, L., and others.** Trial by ice. (Marine corps gazette, Aug. 1952. v. 36, no. 8, p. 45-53, incl. illus.) Other authors: H. L. Oppenheimer and O. W. Price.

"Hypothetical examples are given to illustrate peculiarities of arctic warfare. Normal supply and maintenance support must be multiplied by a factor of 4-9 to account for climate and terrain condi-

tions. Supply by over-snow vehicles or cat-train is impracticable at ranges much over 100 mi. because of high fuel consumption. Possible military objectives in the Arctic are listed. Problems of amphibious operations in this area are briefly discussed."—SIPRE.

**Copy seen:** DLC.

**MEVES, GEORG ANDREAS FREDRIK ADOLPH JULIUS SEELHORST**, *see* MEVES, JULIUS, 1844–1926.

**24315. MEVES, JULIUS, 1844–1926.** Lepidopterologiska anteckningar. (Entomologisk tidskrift, 1914. Årg. 35, häft 1–2, p. 1–42, häft 3–4, p. 123–41) **Title tr.:** Notes on Lepidoptera.

*Contains* a systematic list of about 300 species and numerous varieties of lepidoptera from various regions, with data on distribution and some ecological notes; includes a few species native to Swedish Lapland. **Copy seen:** DLC; MH-Z.

**24316. MEVES, JULIUS, 1844–1926.** Lepidopterologiska notiser. (Entomologisk tidskrift, 1899. Årg. 20, häft. 2–3, p. 219–22) **Title tr.:** Notes on Lepidoptera.

*Contains* critical notes on ten lepidoptera from various regions of Sweden, including *Brephos nothum* from Luleå Lappmark. **Copy seen:** DLC; MH-Z.

**24317. MEVES, JULIUS, 1844–1926.** Skogsinsekter härjningar. (Entomologisk tidskrift, 1887. Årg. 8, häft 1, p. 27–34, 154) **Title tr.:** Ravages of forest insects.

*Contains* a list of 12 species of injurious insects, including *Hyllobius abietis*, native to the Torneå and Jokkmokk region in Torne Lappmark, with data on damage to forests for the period 1876–1885; based on official data. Summary in French. **Copy seen:** DLC; MH-Z.

**24318. MEVES, WILHELM, 1814–1891.** Mindre bekanta eller för Sverige nya nattfjärilar. (Entomologisk tidskrift, 1884. Årg. 5, häft 1–2, p. 71–72, 94) **Title tr.:** Night butterflies new or little known for Sweden.

*Contains* a list of 21 species of night butterflies, mostly collected by the author on Öland Island in 1881–82, with addition of a few species new to the lepidopterous fauna of Sweden, including *Cidaria suffumata* (Torneå Lappmark), *C. filigrammaria* (Quikkjokk, Torneå Lapp-

mark) and *Eupithecia hyperboreata* (Lapland). Summary in French.

**Copy seen:** DLC; MH-Z.

**MEYER, MARVIN CLINTON, 1907–**, *see* Moore, J. P., & M. C. Meyer. Leeches Alaskan & adjacent waters. 1951. No. 24468.

**MEYER, N. F.**, *see* Meier, N. F. Zur Kenntnis d. *Cryptus* u. *Caenocryptus*. 1934. No. 24267.

**24319. MEYER, OTTO.** Nordlichtbeobachtungen am 17.4.47. (Deutsche hydrographische Zeitschrift, Jan. 1948. Bd. 1, Heft 1, p. 35) **Title tr.:** Observations on aurora April 17, 1947.

*Contains* a description of auroras observed from aboard the light-ship *Elbe I* (54°0' N. 8°8' E.) supplemented by some observations of the magnetic storm recorded at the same time at the Wingst Observatory. **Copy seen:** DLC.

**MEYERS, LARRY**, *see* Miller, H. Sinking of *Vermay*. 1950. No. 24355.

**24320. MEZHOV, VLADIMIR IZMÂLOVICH, 1831–1894.** Sibirskaja bibliografiâ; ukazatel' knig i statel o Sibiri na russkom âzykâ i odniekh tol'ko knig na inostrannykh âzykakh za ves' period knigopechataniâ. S.-Peterburg, A. S. Semenov, 1903. 3 v. in 2. (485 [xii], 470 [x], 303 [x], 186 p.) **Title tr.:** The Siberian bibliography; an index of books and articles on Siberia in the Russian language and books (only) in foreign languages, for the period since the beginning of printing.

Second printing apparently without new material, of the work first published in 1891 (see *Arctic Bibliography*, No. 11347). **Copy seen:** DLC.

**MICHAEL, M. A.**, *see* Waxell, S. L. American expedition. 1952. No. 27279.

**24321. MICHAELSEN, WILHELM, 1860–**. Oligochaeten der Kamtschatka-Expedition 1908–1909. (Akademii nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1929. t. 30, vyp. 2, p. 315–29) **Title tr.:** Oligochaeta of the Kamchatka Expedition, 1908–1909.

*Contains* a systematic enumeration of 12 species of fresh-water annelids of Oligochaeta class collected in 1908–1909, in Kamchatka Peninsula by the Expedition of F. P. Riâbushinskii, with diagnoses of *Pachydrius kamtschatkanus* and *Rhycodrilus riâbushinskii* n. spp.; synonymy,

critical notes and data on Kamchatka distribution. **Copy seen:** DLC; MH-Z.

**24322. MICHAELSEN, WILHELM, 1860- .** Oligochaeten der Zoologischen Museen zu St. Petersburg und Kiew. (Akademiiā nauk SSSR. Izvestiā 1910. Ser. 5, t. 15, no. 2, p. 137-215, illus., plates 1-2) **Title tr.:** Oligochaeta of the Zoological Museums at St. Petersburg and Kiew.

Contains a critical study of fresh-water worms of the order Obligochaeta, from European Russia, Siberia (mostly from Lake Baykal) and Madagascar; with synopses of the families, genera and species, and a systematic list of 45 species, synonyms, diagnoses of 15 new species, descriptions, critical notes and data on morphology and geographic distribution, includes at least 11 species native to northern regions of European Russia, Siberia and arctic islands.

**Copy seen:** MH.

**24323. MICHAELSEN, WILHELM, 1860- .** Zur Kenntnis der Lumbriciden und ihrer Verbreitung. (Akademiiā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1910. t. 15, no. 1, p. 1-74) **Title tr.:** A contribution to the knowledge of Lumbricidae and their distribution.

Contains a taxonomic and zoogeographic survey of worms of the fam. Lumbricidae, and an enumeration of about 40 species (7 new) and numerous varieties and forms, with synonymy, descriptive notes and data on distribution; includes *Helodrilus (Eisenia) nordenskiöldi f. typica* native to Arkhangel'sk province, Yenisey and the Kolyma River region, and *H. octaedrus* from Kolguyev Island. **Copy seen:** DLC; MH-Z.

**24324. MICHEA, JEAN P.** Exploration in Ungava Peninsula. (Canada. National Museum. Annual report for 1948-1949, pub. 1950 in its: Bulletin no. 118, p. 54-58)

Brief summary of results of the author's ethnologic and archeologic research, carried out during the four-man expedition of 1948, directed by J. Rousseau; with description of the exploration across the peninsula via the Kogaluk River and Payne Lake.

**Copy seen:** DGS.

**24325. MICHEA, JEAN P.** Some Eskimos of Chesterfield Inlet. (Canadian geographical journal, Nov. 1951. v. 43, p. 222-25, inc. illus.)

Photographs, accompanied by explana-

tory text, of the year-round life of the Eskimos. **Copy seen:** DGS.

**MICHEA, JEAN P.,** see also Collins, H. B. Excavations Thule culture Cornwallis I. 1951. No. 21276.

**MICK, A. H.,** see Sweetman, W. J., & others. Better forage for Alaska. 1950. No. 26570.

**MIDDLETON, WALLACE R.,** see Sweetman, W. J., & others. Raising dairy calves & heifers. 1951. No. 26571.

**24326. MIETTINEN, LEEVI.** Tutkimuksia harmaalepiköiden kasvusta. Helsinki, 1932. 100 p., incl. 2 illus. plates, map, tables, diagrs. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 18:1) **Title tr.:** A study of the growth of gray alder.

Contains data on gray alder (growing to 70°30' N. lat.), its appearance and development in Finland, its distribution, growth, production; amount of alder trees, length, diameter at breast height, and volume of dominant alders and of alder in general. Bibliography (50 items). **Copy seen:** DLC.

**24327. MIGAI, K. V.** Spetsodezhda dlia zashchity cheloveka ot nizkikh temperatur vozdukh. (Gigiena i sanitariā. June 1952. no. 6, p. 23-29, diagrs., table) **Title tr.:** Special clothing for protecting man from low air temperatures.

Contains a study of work clothes made of certain kinds of fur and of clothes padded with cotton-wool. Only sheepskins gave better protection than the latter. Experiments with net-like jerseys worn directly on the body showed the eye-size and thickness of the "net" to be the decisive factors, the kind of material having no effect. Such full length jerseys closed at the neck, wrists and ankles, and made of cotton 3-3.5 mm. thick, with meshes 10 x 10 mm., were almost as efficient as cotton-padded clothes, and were more comfortable, permeable to perspiration, etc.

**Copy seen:** DLC.

**24328. MIKHAILOV, A. F.** Zhertvo-prinoshenie u Khristian; prazdnovanie dnia sv. Frola i Lavra v der. Kochakh Ukseevskoi volosti, Cherdinskago u. (Kazan' Universitet. Obschestvo arkhologii, istorii i étnografii. Izvestiā, 1898. t. 14, vyp. 4, p. 441-44) **Title tr.:** Offering among the Christians; celebra-

tion of St. Frola and Lavra's day in the village of Koch, Ukseevsk county, Cherdinsk district [gov. of Perm].

*Contains* account of the festival (Aug. 18) of these saints, considered as protectors of domestic animals: the assembling of several thousand Permians (Zyryans), the sacrifice of oxen (by bleeding to death), division, blessing and eating of the meat; a ritual bathing in the river, etc. The author was present at one feast and witnessed the sacrifice of 70 oxen.

*Copy seen:* DLC; InU.

**24329. MIKHAILOV, S.** Arkhipelag Shpitsbergen. (Vokrug sveta, Feb. 1952. no. 2, p. 44-48, illus., maps) *Title tr.:* The Spitsbergen archipelago.

*Contains* brief description of the general features, area, climate, animal life, etc., of Svalbard and of Bjørnøya to the south of it. The discovery of Svalbard, its subsequent exploitation, the struggle for its possession, the settlement in 1920 of sovereignty on Norway, Russia's agreement to it in 1924, are sketched. An account is added of Russian exploration since 1912, of the coal fields on West Spitsbergen, their importance, exploitation and present conditions.

*Copy seen:* DLC.

**24330. MIKHAILOVSKIĬ, MARK NIKOLAEVICH, 1877-1904.** Die Echinodermen der zoologischen Ausbeute des Eisbrechers "Jermak" vom Sommer 1901. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1904. t. 9, no. 1-2, p. 157-88, illus., text map) *Title tr.:* Echinoderms from the zoological collections of the ice-breaker *Ermak* in the summer of 1901.

*Contains* a critical review of 41 species of echinoderms brought home from the *Ermak's* cruise of 1901 in Barents Sea, with synonymy, measurements and critical notes and a survey of 99 stations with data on the catch; bibliography (49 items). *Copy seen:* DLC; MH-A.

**24331. MIKHAILOVSKIĬ, MARK NIKOLAEVICH, 1877-1904.** K ikhtiofauně ostrova Kolgueva. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1903. t. 8, no. 1, p. 56-60) *Title tr.:* On the ichthyological fauna of Kolguev Island.

*Contains* ichthyological notes on 13 species of fishes caught by the author in the river and lakes of Kolguev Island during the Expedition of the Russian

Geographic Society under S. A. Buturlin in the summer of 1902.

*Copy seen:* DLC; MH-Z.

**24332. MIKHAILOVSKIĬ, MARK NIKOLAEVICH, 1877-1904.** Zoologische Ergebnisse der Russischen Expedition nach Spitzbergen. Echinodermen. Nachtrag. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1903. t. 8, no. 3-4, p. 392-94) *Title tr.:* Zoological results of Russian Expeditions to Spitsbergen. Echinoderms. Supplement.

*Contains* data on distribution of an echinoderm *Trochoderma elegans*, found in Svalbard waters and also known from the Matochkin Shar (Novaya Zemlya), and waters of Greenland and Chukotskiy Peninsula; published as a supplement to the author's work of the same title in the same journal 1902 (see *Arctic Bibliography*, No. 11399).

*Copy seen:* DLC; MH-Z.

**MIKHALEV, P. F.,** see Semiaikin, F. M., & P. F. Mikhaev. On the probable mechanism of the formation of periodic ice streaks. 1937. No. 26037.

**24333. MIKHALEVSKIĬ, L.** Zagotovki i tovarosnabzhenie Murmana. (Leningradskaya oblast', May 1928. v. 1, no. 5, p. 74-80) *Title tr.:* Stocks and commodity supply of the Murman.

The report deals with conditions in the fishing, forest and fur industries and transportation problems of the northern part of Kola Peninsula. Overlapping, parallelism and fragmentation in the industries coupled with insufficient financing are criticized and means of improvement recommended. *Copy seen:* DLC.

**24334. MIKKELSEN, EJNAR, 1880-** The Eskimos of East Greenland. (Canadian geographical journal, Aug. 1951. v. 43, p. 88-98, illus.)

Summary account for general readers of the history, early customs, changes wrought by Danish administration, present settlements, economic and social conditions, and change in culture of the East Greenland Eskimo, especially at Angmagssalik. *Copy seen:* DGS; DLC.

**24335. MIKKELSEN, EJNAR, 1880-** Øst-Grønland. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 2, p. 251-68, incl. 4 p. of illus.) *Title tr.:* East Greenland.

Author notes traces of early Eskimo habitation north of Scoresby Sound, lack

of such signs south of Scoresby Sound to Angmagssalik; sketches 19th century development of settlements in southeast Greenland; overcrowding in recent times at Angmagssalik and the establishment of the Scoresby Sound colony following 1924; remarks throughout on Europeans' enterprises related to East Greenland colonies and on weather and radio stations on East Greenland. Bibliography (4 items). **Copy seen:** DSI-M.

**24336. MIKKOLA, AIMO.** The Vähäjoki iron ore in Tervola, northern Finland. (Finland. Geologiska kommission. Bulletin, 1947. 140, p. 261-80, illus., tables)

Contains geologic data on the area which was investigated by means of drilling and magnetic measurements following report of strong compass disturbances, and geological mapping by the author in 1945. The ore was determined to be not practical but geologically interesting. Author describes the general geological features, magnetic disturbances, rocks, ore types, chemical composition, genesis of the ore. A comparison with the magnetite ores of Kareliides is added.

"The iron ore of the Vähäjoki district . . . is not of magmatic origin. It occurs in pre-Cambrian phyllites and in the zone along their contact with dolomite. The district was subjected to low-grade metamorphism during which iron present in the phyllites, which were originally chemical sediments, migrated and was concentrated and recrystallized as magnetite."—Geological Society of America, *Bibliography and index of geology* v. 15, 1950, p. 193. **Copy seen:** DLC.

**24337. MIKKOLA, ERKKI, and T. G. SAHAMA.** The region to the south-west of the "granulite series" in Lapland and its ultrabasics. (Finland. Geologiska kommission. Bulletin, 1936. no. 115, p. 357-71, tables, map, diagrs.)

Account of zone between rocks of southern Lapland and the granulite area in the North, special tectonic features of the latter being prevalent in the zone under study; geological data on the varied rocks of this zone, comparison with those of the granulite series, chemical analyses of the rocks are given. **Copy seen:** DLC.

**24338. MIKKOLA, ERKKI.** Ueber den Nattangenranit im Finnischen Lapplande. Helsinki, 1928. 22 p. plate, illus., diagr., map. (Fennia, v. 50, no. 12)

**Title tr.:** On the Nattanen granite in Finnish Lapland.

Contains an account of a study of four granite massifs occupying parts of the Sodankylä, Inari and Petsamo districts, and called "Nattanen" by the author after the highest peak of the group, Nattastunturit. Discussion of the divisions and morphology of the area, mineralogy and chemistry of the rocks, fissures and veins, intrusion mechanics of the Nattanen-granite; observations on individual massifs and comparison with other granite massifs. Bibliography (17 items). **Copy seen:** DLC.

**24339. MIKKOLA, ERKKI.** Ultraemäksisten kivilajien vaikutus kasvillisuuteen Lapissa. (Luonnon tutkija, 1938. v. 42, no. 1, p. 21-27, illus., map) **Title tr.:** The effect of ultra-basic rock types on vegetation in Lapland.

Contains data on the relationship between the occurrence of certain flora and the chemical content of some rock types in Finnish Lapland. **Copy seen:** DLC.

**24340. MIKOLA, PEITSA.** Koivunvesomisesta ja sen metsänhoidollisesta merkityksestä. Helsinki, 1942. 102 p., illus., tables, diagrs. (Acta forestalia fennica, 50:3) **Title tr.:** The sprouting of birch and its significance to forest care.

This study, covering areas over all Finland, including Pera Pohjola and Sodankylä in the North (1938-40), gives data on sprouting as a plant physiological factor, and on conditions, etc. affecting sprouting. Summary in German. **Copy seen:** DLC.

**24341. MIKOLA, PEITSA.** On the physiology and ecology of *Cenococcum graniforme* especially as a mycorrhizal fungus of birch. Helsinki, 1948. 104 p., illus., tables, diagrs. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 36:3)

A study carried out at the Institute of Physiological Botany, University of Uppsala in 1947, on this fungus which occurs on spruce, birch, and pine in the North. Bibliography (100 items). Summary in Finnish. **Copy seen:** DLC.

**MIKOLA, PEITSA, see also Hustich, I., ed.** Recent climatic fluctuations Finland; symposium. 1952. No. 22755.

**24342. MILITARY ENGINEER.** Alaskan plans and projects. (Military engineer, June 1949. v. 41, p. 213)

"Since 1911, considerable work has been done in Alaska by the Corps of Engineers. They have currently authorized a comprehensive survey of the territory to study the needs of the rapidly expanding population beyond the present total of 100,000 inhabitants. Projects now in progress include: (1) straightening and deepening the channel at Wrangell Narrows, (2) provision of small boat harbors, and (3) building projecting jetties and a breakwater at Nome."—SIPRE.

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**24343. MILITARY ENGINEER.** American forces in the Aleutians (illustrations), (Military engineer, July 1943. v. 35, p. 347-51)

Reproductions of official U. S. Navy photographs of units of the American armed forces, showing some landscapes, shore lines and local terrain of the Aleutian Islands.

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**24344. MILITARY ENGINEER.** Arctic clothing problems. (Military engineer, Nov.-Dec. 1950. v. 42, p. 479, illus.)

*Contains* note of special requirements in construction equipment designed for use by men in bulky arctic clothing: wider doors and seats, etc., more widely spaced pedals; hand levers, latches, control knobs, etc., designed to permit operation by men wearing clumsy heavy mittens and outsize footgear. Standard commercial construction equipment is not always designed for this use; designers at the U. S. Army Engineer Research and Development Laboratories have studied the problem, with view to incorporating these requirements in specifications for construction equipment to be used in the North.

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**24345. MILITARY ENGINEER.** Arctic housing. (Military engineer, Sept.-Oct. 1950. v. 42, p. 399, illus.)

"A new prefabricated building, designed to withstand arctic winds of 100 mph and temperatures of  $-65^{\circ}$  F, has been completed by the Engineer Research and Development Laboratories, Fort Belvoir, Virginia. The building is of stressed skin aluminum construction. It was designed primarily for troop occupancy and the unit contains its own heating and sanitation facilities." (Item 1260, bibliography prepared by Purdue University).—SIPRE.

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**24346. MILITARY ENGINEER.** Improved ice harvesting. (Military engineer, July-Aug. 1949. v. 41, p. 290-91)

"The Bureau of Yards and Docks has converted a lightweight timber tractor saw to an ice saw by the substitution of tires with metal cleats and a thicker blade adjusted to cut to a designated depth. The device is of importance because harvested ice constitutes the main water supply in many areas of the Arctic. Forty tons of ice can be cut and stored in 48 man hours. The tractor saw can be readily converted to a timber saw or used for digging postholes by the addition of special attachments."—SIPRE.

*Copy seen:* DLC.

**24347. MILITARY ENGINEER.** Machinery in the Antarctic. (Military Engineer, Sept. 1948. v. 40, p. 428)

"Seven years of exposure to sub-zero Antarctic temperatures had little effect upon the operation of four "Dieselectric Plants" made by Witte Engine Works of Oil Well Supply Company, U. S. Steel subsidiary. Two of the units operated continuously during the 1947 winter night to provide steady electric light and power for radio, scientific equipment, and other electrical appliances."—SIPRE.

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**24348. MILITARY ENGINEER.** Navy Arctic talkie films. (Military engineer, May-June 1950. v. 42, p. 218)

*Contains* note of films entitled "U. S. Naval Operations in Alaska" made available for loan to engineering societies by U. S. Navy Bureau of Yards and Docks. Made at Point Barrow, Alaska, beginning in 1947, they are on 16-mm. film, in full color with complete narration.

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**24349. MIL'KOV, F. N.** K analizu landshaftnykh (fiziko-geograficheskikh) rubezhei na russkoĭ ravnine. (Vsesoiuznoe geograficheskoe obshchestvo. Izvestiia, 1952. t. 84, no. 1, p. 11-25, text map) *Title tr.:* On the analysis of landscape (physico-geographical) boundaries of the Russian plain.

*Contains* a study of the zones or lines where a sharp transition between two physico-geographical regions occurs. These boundaries are classified and discussed as: climatic-zonal, the meridional, orographic, geological, limits of post glaciation; geomorphological boundaries, and river valleys as landscape boundaries. The arctic areas of European Russia are

included and are best delimited in the climatic-zonal and orographic classes; the tundra and taiga are discussed in the chapter dealing with the latter (p. 16-17). Bibliography (34 items). This paper was immediately challenged by A. G. Isachenko, q. v.

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**24350. MILLER, ALBERT J.** Physical fitness for strenuous work in relation to the survival situation in a cold environment. (Journal of aviation medicine, Feb. 1949. v. 20, p. 65-67, 72, table)

Results of tests given to 18 men in good health, who lived outdoors under simulated survival circumstances, and on differing diets. Results showed that "young healthy men who lived in a severely cold environment for ten days on a high dietary allotment, maintained or even improved their ability to do strenuous work." Also showed that "the higher the control physical fitness index of the subject, the greater is the fall shown after 6.5 days of starvation in an extremely cold environment."

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**24351. MILLER, ALBERT J.** Study of certain blood properties in healthy men transferred from a sub-tropic to a sub-arctic environment. (Journal of aviation medicine, June 1949. v. 20, p. 201-206)

Thirty subjects who had moved from Texas to Alaska were studied and found to exhibit no marked changes. No evidence is offered for occurrence of acclimatization to cold. Bibliography (12 items).

**Copy seen:** DLC.

**24352. MILLER, DON JOHN, 1919-** . Geology at the site of a proposed dam and reservoir on Power Creek near Cordova, Alaska. [Washington, D. C.] 1951. 8 p. illus., 2 fold. plates (1 map). (U. S. Geological Survey. Circular 136) Process printed.

Contains the report of a geologic investigation of Power Creek in Chugach National Forest, Alaska. Folded and slightly metamorphosed argillite, sandstone, lava, tuff and volcanic breccia, comprise the bedrock; a fault zone passes through the dam site and produces the only area of intense deformation and fracture, which renders part of the reservoir and dam site insufficiently water tight and strong to provide foundation and floor of the proposed structures.

**Copy seen:** DGS.

**MILLER, DON JOHN, 1919-** , see also Gryc, G., & others. Alaska (Possible future petroleum provinces). 1951. No. 22266.

**24353. MILLER, E. WILLARD.** Agricultural developments in interior Alaska. (Scientific monthly, Oct. 1951. v. 73, p. 245-54, illus., 3 sketch maps)

Contains a survey of climatic features, land ownership and clearing, crops and livestock in the Fairbanks region of the Tanana valley, central Alaska, based on field research in 1948 and 1950. Maps show relief, vegetation, and cleared land of the region. **Copy seen:** DGS; DLC.

**24354. MILLER, FERDINAND FERDINANDOVICH, 1837-1900.** Unter Tungusen und Jakuten. Erlebnisse und Ergebnisse der Olenek-Expedition der Kaiserlich russischen geographischen Gesellschaft in St. Petersburg. Leipzig, F. A. Brockhaus, 1882. x, 326 p., front., 3 pl., fold. map. **Title tr.:** Amongst Tungus and Yakuts. Experiences and results of the Olenek expedition of the Imperial Russian Geographical Society of St. Petersburg.

An account of the expedition to the Lower Tunguska, Olenek and Lena Rivers 1873-75, headed by Chekanovskii, in which Miller participated making astronomical topographic and magnetic observations. He deals here mainly with the later phase of the expedition which concerned the valley of the Olenek River (see also *Arctic Bibliography*, No. 3032, 3036). He gives a detailed itinerary (also shown on map); regular weather observations; accounts of animal and plant life; reindeer; the population, its life, habits and occupations; geological observations; notes on the sea, fishing and hunting; astronomical observations; auroras; detailed account of towns and settlements.

*Appendix* (p. 292-326) contains: (1) a survey of the flora of the Olenek River; (2) survey of the geological conditions of the Lower Tunguska; (3) observations on the temperature at various heights above the snow. **Copy seen:** DLC.

**24355. MILLER, HARVEY, and L. MEYERS.** The sinking of the *Vermay*. (Alaska sportsman, Jan. 1951. v. 17, no. 1, p. 6-11, 30-32, illus.)

Graphic account (as related to L. Meyers by one of the two survivors) of a storm and shipwreck off Cape Muzon, Dall Island, Southeast Alaska in Aug.

1950, in which Rev. Verne Swanson, pastor of the church at Craig, Alaska and captain of the *Vermay* was lost.

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**MILLER, KEITH W.**, see Johnson, W. M., & others. Correlation climatological data Bering Sea & Aleutian I. 1944. No. 23008.

**24356. MILLER, L. A.** Observations on the bionomics of some northern species of Tabanidae (Diptera). (Canadian journal of zoology, June 1951. v. 29, p. 240-63, illus., 2 plates, table, diagrs.)

Results of studies carried out during spring-summers of 1948-49 for the Division of Entomology, Dept. of Agriculture, Ottawa, on the deerflies and horseflies of the Churchill, Man. region. Ten species are recorded, three for the first time, taxonomy is discussed. Author describes "methods of rearing the immature stages, of collecting adults, emerging in the field, of estimating larval and adult populations, and of correlating adult activity and weather conditions." "It is established that Tabanidae in this region overwinter in the larval stage and that most species have at least a three-year life cycle." Certain parasites and predators are recorded. Bibliography (23 items).

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**24357. MILLER, MAYNARD MALCOLM.** Drifting ice islands of the North. (Harvard alumni bulletin, Apr. 19, 1952. v. 54, no. 14, p. 592-94, 596, 600, illus., map)

Contains a detailed account of a flight, Aug. 1-2, 1951, in search for the so-called "ice islands." The route was from Fairbanks, via Prince Patrick to northern Ellesmere Island thence to the vicinity of the Pole and back to Fairbanks. The ice islands  $T_1$  and  $T_2$  were located and studied. Their similarity with, and probably origin from the "ice shelf" found fringing large land areas during this trip, is stressed.

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**24358. MILLER, MAYNARD MALCOLM, and W. O. FIELD.** Exploring the Juneau ice cap. (Research reviews, Apr. 1951. p. 7-15, illus., map)

Description of the Juneau Ice Field Research Project, 1948-50, in some detail as to its program, personnel and equipment, and (briefly) some of its results in the field of glaciology.

**Copy seen:** DSI-M.

**24359. MILLER, MAYNARD MALCOLM.** Four seasons on the Juneau Ice Field, Alaska. (Explorers journal, Winter-Spring 1951. v. 29, p. 1-16, illus., sketch maps)

Contains an account of field research begun in 1948 and continued through the summer seasons of 1949 and 1950. Includes information on the location of the area and of the main base camp, personnel, the five-week reconnaissance expedition of 1948; organization of summer 1949 expedition, transport and field work of the team, including meteorological, geophysical and seismic-depth studies, ecology, ice movements, micro-ice research, surveying, bed-rock geology, etc., construction of the main research station. Field work in 1950 included studies on snow and glacier ice, meteorology, geology, botany, mapping, and continuation of other investigations including food and equipment testing. The account closes with note of an eight-man party going into the ice field for Jan.-Feb. 1951, and list of the project's personnel for each of the four seasons.

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**24360. MILLER, MAYNARD MALCOLM.** Glacier tunnel observations in Alaska. (Journal of glaciology, Mar. 1952. v. 2, no. 11, p. 69-70)

Contains notes on observations of englacial temperature and movement, made by an untrained observer in prospecting tunnels in an unnamed glacier near Hyder, Southeast Alaska.

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**24361. MILLER, MAYNARD MALCOLM.** Instruments and methods: Englacial investigations related to core drilling on the upper Taku Glacier, Alaska. (Journal of glaciology, Oct. 1951. v. 1, p. 579-80, plate)

"Samples of névé and undisturbed ice cores at a depth of nearly 300 ft. were obtained from the Taku Glacier, Alaska as part of the Juneau Ice Field Research Project [summer 1950]. A rotary Pioneer Straitline Drill Rig was used and various experiments in ice-drilling methods were undertaken. Mineralogic and petrofabric analyses of ice cores indicated a preferred orientation of crystals at low angle to the horizontal. Englacial rates of flow were measured by means of aluminum pipe lengths lowered into drill holes and a determination of the initial alignment was made with a single-shot bore hole survey instrument. Englacial

temperatures were measured by spaced thermistors."—SIPRE. Full report on results is to appear later.

**Copy seen:** DGS; DSI-M.

**24362. MILLER, MAYNARD MALCOLM.** The Juneau ice field, Alaska, 1948-51. (American alpine journal, 1951. v. 8, p. 113-18, 4 plates)

Résumé of scientific program for the Juneau Ice Field Research Project, initiated in 1948 under auspices of the American Geographical Society, U. S. Office of Naval Research, and a number of other agencies. **Copy seen:** DLC.

**24363. MILLER, MAYNARD MALCOLM.** Preliminary notes concerning certain glacier structures and glacial lakes on the Juneau Ice Field. (*In his & others:* Scientific observations of the Juneau Ice Field Research Project, Alaska 1949 Field Season, p. 49-86, incl. tables)

"The relationship of shearing in the upper and more rigid layers of glaciers to the surficial expression of arcuate banded features on peripheral glaciers are discussed. Successive layering of annual accumulation and related horizontal *blue bands* in the névé of the upper Taku Glacier was analyzed and measured on walls of crevasses and on profiles examined in pits dug into the firn. Sub-vertical and sub-cylindrical ice columns and related ice dikes and lenses were studied in the firn at several locations on the ice field. The relation of the horizontal ice bands to vertical ice columns is a part of the meltwater problem. The metamorphism of firn snow into glacier ice is discussed."—SIPRE. **Copy seen:** CaMAI.

**24364. MILLER, MAYNARD MALCOLM.** Preliminary report of field operations, the Juneau Ice Field Research Project, 1949 season. New York, American Geographical Society, Jan. 20, 1950. 36, [13] p. map, diagrs. on 3 plates. (J. I. R. P. report no. 2)

Contains account of "what in general was done and how the details of the program were placed in effect," but not scientific results. Logistics and air operations are summarized: supplies dropped by parachute and free-drop, heavier equipment transported by ski-wheeled aircraft. Fourteen camps throughout the ice field were occupied and a network of routes and observations stations established over approx. 500

square miles of terrain, in the period July-Sept. The scientific programs are presented from party members' field notes: glaciology, meteorology, plant ecology (high and low level investigations), geophysics (seismic soundings directed by Dr. Thomas Poulter), bed-rock geology, mapping and survey; and (p. 29-32) medical report: supplies, general health of expeditionary personnel, test of anti-sunburn preparation, exercise tolerances. *Appendices* [13 p.] give: (A) personnel; (B) flight operations and air supply data; (C) ablation-accumulation records; (D) record of sunshine at Taku camp 10; (E) meteorological synopsis, daily record of: wind direction and force, precipitation, average daily and minimum night temperatures, humidity, and overcast for Camp 10 (4000' elevation) July 4-22.

This report is summarized in *Polar record*, Jan. 1951. v. 6, no. 41, p. 99-101. It is superseded by J. I. R. P. report no. 5 *infra*. **Copy seen:** CaMAI.

**24365. MILLER, MAYNARD MALCOLM.** Progress report of logistical operations Juneau Ice Field Research Project, Alaska 1949-1950 and 1951. New York, American Geographical Society, 1951. 4\* p. l., 45 p. 19 illus., and map on 9 plates. (Juneau Ice Field Research Project. Report no. 5) mimeographed.

Contains report (p. 1-8) on supply of 15 main camps and a half dozen additional sites in an area of 700 sq. miles, mostly glaciated and extremely rugged, necessitating aerial supply. 96 per cent of equipment and supplies (67 tons) were delivered by parachutes, free-air-drops or by ski-plane (breakdown given). Types of aircraft and their effectiveness under specific conditions, and parachutes types are noted. Free-fall bundles varying from a few to several hundred pounds, representing 18¾ tons of supplies, were dropped with less than 6 per cent loss; flight and drop conditions are commented on. In pt. 2 (p. 9-45) items of equipment and supply tested for various U. S. Government agencies are reported on: food rations, sleds, toboggans, skiing equipment, snow goggles, articles of clothing, tents, etc., stoves, radio, engineering and medical equipment, oversnow vehicles (weasels), etc. This report was prepared by Mr. Miller with suggestions and comments by other members of the Project. **Copy seen:** CaMAI.

**24366. MILLER, MAYNARD MALCOLM, and others.** Scientific observations of the Juneau Ice Field Research Project. Alaska 1949 field season. New York, American Geographical Society, July 1952. vi, 163 p., 51 illus. incl. sketch maps, diagrs. on 18 plates. (Juneau Ice Field Research Project, Report no. 6)

Contains a fuller account of the field work reported in J. I. R. P. no. 2 (*supra*) which is hereby superseded. Following (1) introductory summary of plans, personnel, support, logistics, ground operations, the various programs are reported: (2) glaciology; (3) meteorology; (4) ecology; (5) geophysics; (6) bedrock geology; (7) mapping and survey. *Appendices* present data on personnel, flight operations and air supply, meteorological summaries, duration of sunshine, botanical specimens.

The glaciological report includes: Investigations in the Taku Glacier firn, by F. B. LEIGHTON, q. v.; and Preliminary notes concerning certain glacial structures . . . by M. M. MILLER, q. v.

R. B. Forbes contributed to the Bedrock geology report; and R. G. Merritt to Mapping and survey.

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**MILLER, MAYNARD MALCOLM, see also** Field, W. O., & M. M. Miller. Juneau Ice Field Research Project. 1950. No. 21785.

**MILLER, MAYNARD MALCOLM, see also** Haley, T. R., & others. Food reports Juneau Ice Field 1949-51. 1951. No. 22376.

**24367. MILLER, RALPH LEROY, 1909-** . Developments in Alaska in 1949. (American Association of Petroleum Geologists. Bulletin, June 1950. v. 34, p. 1226-34, 2 maps)

Review of geophysical prospecting and drilling for oil within the Naval Petroleum Reserve no. 4 in northern Alaska, geological work there and in adjoining areas, and (briefly) geological surveys in the Alaska Peninsula - Cook Inlet area.

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**24368. MILLER, RALPH LEROY, 1909-** . Developments in Alaska in 1950. (American Association of Petroleum Geologists. Bulletin, June 1951. v. 35, p. 1369-79, 2 maps, table)

Reports in brief on extensive geologic, geophysical and drilling explorations on

U. S. Naval Petroleum Reserve no. 4 in northern Alaska, and a geologic investigation of Jurassic rocks in the Iniskin Peninsula region, Cook Inlet; also a note on mapping and aerial photography in Alaska.

*Copy seen:* DGS.

**24369. MILLER, RALPH LEROY, 1909-** . Geologic problems of the arctic slope of Alaska. (New York Academy of Sciences. Transactions, Jan. 1951. Ser. 2, v. 13, p. 90-92)

Paper presented before the section of Geology and Mineralogy, Dec. 4, 1950, giving a general description of how geologic reconnaissances have been carried out over U. S. Naval Petroleum Reserve no. 4 since 1944, by boat, weasel and aerial transportation.

*Copy seen:* DGS.

**MILLER, ROBERT DAVID, 1922-** . see Dobrovolsky, E., & others. Descriptive geology of Anchorage & vicinity, Alaska. 1950. No. 21486.

**24370. MILLER, W. H.** Organization of surveys, mapping and charting in Canada. (Surveying and mapping, July-Sept. 1951. v. 11, no. 3, p. 281-84)

Contains an outline (by its director) of the Surveys and Mapping Branch of the Dept. of Mines and Technical Surveys. The functions of the Branch's five divisions is outlined: Geodetic Survey, Hydrographic Service, Topographical Survey, Legal Surveys, and Aeronautical charts Division, Map Compilation and Reproduction Division. Cooperation with other mapping agencies is outlined as is the organization of aerial photography survey research.

*Copy seen:* DLC.

**MILNE, W. G., see** Hodgson, J. H., & W. G. Milne. Direction of faulting earthquakes N. Pacific. 1951. No. 22641.

**24371. MILTHERS, KELD.** Glacialgeologisk rekognoscering i Holsteinsborg distrikt. (Dansk geologisk Forening. Meddelelser, 1948. Bd. 11, p. 393-95, illus.) *Title tr.:* Glacial geologic reconnaissance in Holsteinsborg district.

Contains brief remarks on glacier melt-water channels, eskers, terraces and other features on the west coast of Greenland in the Holsteinsborg region.

*Copy seen:* DGS.

**24372. MILTHERS, KELD.** Inland-sisen. (In: Birket-Smith, K., and

others. Grönlands bogen, 1950. v. 1, p. 117-36, illus.) **Title tr.:** The inland ice.

"A description of the magnitude, structure, movement and economy of the inland ice of Greenland is presented. Approximate snow limits at various locations are included. The extended waves on the ice surface may be due to pressure of the ice on the earth's crust. It was established that the variation in precipitation is inadequate to explain the fact that the greater part of the ice surface is facing the east coast of Greenland."—SIPRE. Bibliography (11 items).

**Copy seen:** DSI-M.

**MILZER, ALBERT**, *see* Levinson, S. O., & others. Effect fatigue chilling & trauma on resistance polio. 1945. No. 23814.

**24373. MINEEV, MIKHAIL ALEKSEEVICH.** Sel'skoe khoziäistvo Sibiri v plätiletnem plane. Novosibirsk, Sibkrazdat, 1929. 64 p., diags. **Title tr.:** Agriculture of Siberia in the five-year plan.

Brief account of the territory (49°-77°35' N. lat.) climate and soil; character of agriculture objectives of the five-year plan; collective and state farms (kol'khoz and sovkhoz); increase of productivity; mechanization; animal production.

**Copy seen:** DLC.

**24374. MINNER, J. LESTER.** The polar bear, friend of the Eskimo. (Nature magazine, Aug.-Sept. 1952. v. 45, no. 7, p. 348-50, illus.)

Contains a popular sketch of the bear's place in Eskimo life, its travels; protective coloration, way of hunting in general and of hunting the seal in particular; carrion and grass as bear food; the young and their upbringing; man and dog versus polar bear; its temper; bears in captivity.

**Copy seen:** DLC.

**MINNESOTA. UNIVERSITY.** *see* U. S. Library of Congress. Technical Information Division. Annotated bibliography on snow, ice & permafrost. 1951-52. No. 26960.

**24375. MINNESOTA. UNIVERSITY. INSTITUTE OF TECHNOLOGY. ENGINEERING EXPERIMENT STATION.** Interim report to Snow, Ice and Permafrost Research Establishment. A report of the snow and ice project, prepared under contract No. W-21-018-eng-676, U. S. Army Corps of Engineers. Minneapolis, Minn., January, 1950. Litho-

printed. Edwards Brothers Inc., Ann Arbor, Mich., 1951. v. 62 p., 12 charts, fold. map. (SIPRE report no. 1)

"This report was written to analyze the requirements for and recommend an orderly program for research in snow, ice and permafrost, including the use of existing facilities and the recommendation of any new facilities to accomplish the research. Military end points and corresponding problems are enumerated and the problems in turn reduced to fundamental operations, environmental factors, and properties. Twenty-seven research projects are listed with priority, and briefly described as to nature and scope. Among the appended information [p. 17-62] is a summary of the present status of knowledge of snow, ice, and frozen ground. The report is particularly complete in an appraisal of snow and ice. Frozen ground is treated much less thoroughly."—Abstract by SIPRE Project, Library of Congress.

**Copy seen:** CaMAI; DLC.

**24376. MINNESOTA. UNIVERSITY. INSTITUTE OF TECHNOLOGY. ENGINEERING EXPERIMENT STATION.** Review of the properties of snow and ice. Edited by Homer T. Mantis, with reports by Henri Bader, Carl S. Benson, Paul P. Bey, Robert H. Doherty, Richard J. Golstein, Jerome A. Joseph, Stanley W. Rasmussen, Daniel C. Sciaivone. A report of the snow and ice project, prepared under contract No. W-21-018-eng-676, U. S. Army Corps of Engineers. Minneapolis, Minn., March 1951. Lithoprinted. Edwards Brothers, Inc., Ann Arbor, Michigan, 1951. ix; 156 p., tables, 17 diags. (SIPRE report no. 4)

Prepared "to provide the necessary background for the organization of a research program and to summarize the information on these properties for the use of workers in the field of snow and ice research." Chapters on the mechanical properties of snow and ice; ultimate strengths of ice and snow; electrical properties of ice; geometric properties of ice; thermal properties; radiation properties of snow and ice; the heat economy of the snow pack; phase relations; super-cooling; ice formation in open water; appendix, with abstracts from literature prepared with the compilation of data. Bibliographies follow each chapter (about 250 items).

**Copy seen:** CaMAI.

**MINTZER, OLIN W.**, *see* Frost, R. E., & O. W. Mintzer. Influence topographic

position airphoto identification permafrost. 1950. No. 21972.

**24377. MIRAM, ÉMILIĀ FEDOROVNA.** Opredelitel' otrîadov vzoslykh nasekomykh i ikh lichinok. Leningrad, Izd-vo Akademii nauk SSSR, 1933. 70 p., illus. (*In: Akademiĭa nauk SSSR. Opredeliteli po faune SSSR. No. 11*) **Title tr.:** Key to the insect orders, imagines and larvae.

*Contains* a general morphological sketch of the class Insecta, a table for the determination of 30 orders of imagines of insects found in the U.S.S.R., including some native to northern regions, and another table for the determination of larvae of the same orders (and some families); bibliography (24 items).

**Copy seen:** DLC; MH-Z.

**24378. MIRAM, ÉMILIĀ FEDOROVNA.** Prîamokrylye (Orthoptera) Ĭakutii. Leningrad, Izd-vo Akademii nauk SSSR, 1933. 52 p., illus. (*In: Akademiĭa nauk SSSR. Opredeliteli po faune SSSR. No. 12*) **Title tr.:** Orthoptera of Yakutia.

*Contains* (p. 1-47) a morphological sketch of Orthoptera, tables for the determination of subclasses, genera and species occurring in Yakut A.S.S.R., eastern Siberia, with descriptions and data on distribution; includes some species native to the northern part of the region; bibliography (47 items).

A supplementary article by G. ĬĀ., Bel Bienko, *Les principaux moyens de lutte contre les Acridides*, is appended, p. 47-52 (Russian text, Russian and French title), discussing the control of locusts and grasshoppers.

**Copy seen:** DLC; MH-Z.

**24379. MIRAM, ÉMILIĀ FEDOROVNA.** Spisok Orthoptera, sobranykh kamchatskoĭ ĕkspeditsiei F. P. Riĭabushinskogo v 1908-1909 godakh. (Akademiĭa nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1922. t. 23, no. 2, p. 283-88) **Title tr.:** List of Orthoptera collected on the Kamchatka expedition of F. P. Riĭabushinskii in 1908-1909.

*Contains* a list of the seven orthopters collected with their localities, data on total distribution and occasional critical notes.

**Copy seen:** DLC; MH-Z.

**24380. MIRAM, ÉMILIĀ FEDOROVNA.** Zur Orthopteren-Fauna Russlands. Helsingfors, 1907. 9 p. (Finska vetenskaps-societeten. Oversigt af för-

handlingar, 1906-1907. v. 49, no. 6) **Title tr.:** Contribution to the orthopterous fauna of Russia.

*Contains* a list of some orthopterous insects from the Yenisey and Yakut governments, from northwestern Mongolia, Kola Peninsula and Arkhangelsk. Dates, places, number and sex of the finds are given. Four (or five) new species are described in detail.

**Copy seen:** DLC.

**24381. MIRICK, SUSANNAH, and others.** Feasibility of automobile ferry service connecting southeastern Alaska with the Canadian highway system at Prince Rupert and with the Alaska Highway via Haines. (A preliminary study.) Portland, Oreg., 1944. iii, 36 p. incl. tables, map. (North Pacific Planning Project.) North Pacific study [No. 5]. Mimeographed. *Other authors:* J. C. Rettie, G. Sundborg and C. McKinley.

Brief analysis of the geographic necessity of a ferry service for connection of all the larger centers of Southeast Alaska; the routes proposed and estimates of possible traffic; remarks on the shorter Juneau (Auk Bay) - Haines section of the ferry service. Detailed treatment of the Prince Rupert - Juneau section: fares and rates, operating schedule, necessary features of the ferry ship, and load factor estimates.

**Copy seen:** DI.

**MIRICK, SUSANNAH, see also McKinley, C., & others.** Case for limited modification cabotage. 1944. No. 24090.

**MIRICK, SUSANNAH, see also Rettie, J. C., & S. Mirick.** Comparisons transportation costs 88 commodities. 1944. No. 25463.

**MIRICK, SUSANNAH, see also Rettie, J. C.** Population trends (etc.) Alaska. 1944. No. 25464.

**MIRICK, SUSANNAH, see also Rettie, J. C., & others.** Problems post-war utilization petroleum pipe line. 1944. No. 25465.

**MIRICK, SUSANNAH, see also Rettie, J. C., & others.** Shipping services American N. Pacific, Pt. 1. 1944. No. 25466.

**MIRICK, SUSANNAH, see also Rettie, J. C., & others.** Suppl. Prelim. memorandum Alaska Highway. 1944. No. 25467.

**24382. MIRONOV, SERGEĬ ANDREEVICH.** Teoriĭa i metody zimnego betonirovaniĭa. Moskva, Gosud. izd-vo

stroitel'noĭ literatyr, 1950. 265 p. illus., tables. *Title tr.*: Theory and methods of winter work with concrete.

Contains in pt. 1 of this technical monograph on the use of concrete in cold-weather construction: a theoretical account of the effect of temperature and variation of ingredients on the hardening and cementing qualities of concrete; the effects of freezing; choice of concrete mixtures. In pt. 2 (p. 127-261): methods without artificial heating; "steaming" of concrete works; electric and dry-air heating; use of "heaters" (tents or temporary covers keeping the structure warm); construction of floors and road covers in winter; repairs on concrete during the cold season; combinations of methods.

*Copy seen:* DLC.

**MIRONOVA, N. V.**, see Kamshilov, M. M., & N. V. Mironova. *Pitanie mal'kov treskovykh. 1950. No. 23102.*

**24383. MIROSHNIKOV, I. I.** Lechenie otmorozhenii. (Khirurgiia, 1944. god 14, no. 6, p. 28-32) *Title tr.*: Therapy of frostbite.

Contains a study based on 500 cases nearly all of the third and fourth degree; includes data on localization of damage, length of hospitalization, early and later pathology, schemes for therapy during early and advanced stages, physiotherapy, after-treatment, etc. *Copy seen:* DLC.

**24384. MIROV, NICHOLAS TIHO, 1893-** . Geography of Russia. New York, Wiley, [1951]. xii, 362 p., sketch maps, diagrs.

Written primarily for college students and general readers, this survey is based on 20th century Russian sources, and presents first generally then regionally the geography of the U.S.S.R., in its physical rather than economic or human aspect. Pts. 1-2 (p. 3-81) describe briefly the geology, topography, climate (including permafrost, p. 38-42), rivers and lakes, historical geography, the peoples, their languages and religions.

Pt. 3 (p. 85-347) describes the climate, topography, soils and vegetation, animal life and peoples of twenty regions, including the tundra (p. 85-99), mountains of northeastern Siberia (p. 277-88), Okhotsk coast and the island of Sakhalin (p. 305-315), Kamchatka Peninsula and neighboring islands (p. 316-32), and the arctic islands (p. 333-47). Includes full bibliographic footnotes and an index.

*Copy seen:* DGS.

**24385. MIRSKII, M. IA.** Rol' temperaturnykh uslovii v vozniknovenii kessonnykh zabolevaniĭ. (Gigiena i sanitariia, 1947. god 12, no. 4, p. 35-41) *Title tr.*: Temperature as a factor in the occurrence of caisson disease.

Contains findings from work of the author and others: a too low temperature of the compressed air as well as a high one, increases the possibility of occurrence of caisson disease ("the bends"). A relation between a definite pressure and a corresponding optimal temperature is established by the author, viz: up to 2 atm. 16°-21° C.; 2.1 - 2.5 atm. 17°-22° C.; over 2.5 atm. 18°-26° C. Conditions around freezing temperature are also discussed.

*Copy seen:* DLC.

**MIRSKY, JEANNETTE, 1903-** , see Sanders, I. T. Societies around the world. 1952. No. 25824.

**MISENER**, see Hooper, F. C. New methods heating buildings. 1952. No. 22703.

**24386. MISHAREV, D. T.** Kuliokskoe mestorozhdenie sludy-muskovita v tsentral'noi chasti Kol'skogo poluostrova. (Akademiia nauk SSSR. Doklady, seriia A, 1932, no. 6, p. 142-51, tables, map) *Title tr.*: Deposits of mica-muscovite at Kuliok in the central part of Kola Peninsula.

History of the discovery of the deposits (about 67°30' N. 36°30' E.); results of an inspection of the area; prospects of mica production. *Copy seen:* DLC.

**MISHCHENKO, L. L.**, see Bel-Bienko, G. IA., & L. L. Mishchenko. Saranchevye fauny SSSR. 1951. No. 20532.

**MISHCHUK, N. N.**, see Golendberg, A. D., & N. N. Mishchuk. Lechenie otmorozhenii tokami d'Arsonvalia. 1940. No. 22156.

**24387. MISHIN, I. P.** Vyrashchivanie teliat olenei v kolkhoze "Val." (Sotsialisticheskoe zhivotnovodstvo, Oct. 1951. v. 13, no. 10, p. 57-61, illus.) *Title tr.*: Raising reindeer fawns in the kolkhoz "Val."

Contains account of the favorable conditions for reindeer breeding and improvement in northern Sakhalin; the pasture lands of the kolkhoz "Val"; winter pastures, summer pastures, and calving (mid-April to mid-June); selection and breeding of superior animals (since 1948); organization of the selective breeding and cor-

rals; treatment and food of the calving animals and the fawns; special protection against winds and cold; results; treatment of the half-grown fawns, etc.

**Copy seen:** DLC.

**24388. MISSENARD, A.** Equivalencias termicas de los ambientes. Equivalencia de paso. Equivalencia de estadia. (Sociedad Cientifica Argentina. Anales, Marzo 1950. t. 149, no. 3, p. 119-48, 8 fig.) **Title tr.:** Thermal equivalences of environments. Transition equivalent, stationary equivalent.

*Contains* an explanation and evaluation of the author's transition equivalent (i. e. the point at which a change from one state of temperature and moisture to another is not felt as change by the subject). No difference in sensation of transition between the naked and clothed body, was observed. The influence of humidity from the subjective, thermal and hygienic points of view are evaluated and related to the sweating activity. The significance of the author's ideas and their relation to the work of others is discussed. Bibliography (42 items).

**Copy seen:** DLC.

**24389. MITCHELL, HAROLD HANSON, 1886-**, and others. The tolerance of man to cold as affected by dietary modification: carbohydrate versus fat and the effect of the frequency of meals. (American journal of physiology. Apr. 1946. v. 146, p. 84-96) *Other authors:* N. Glickman, E. H. Lambert, R. W. Keeton, and M. K. Fahnestock.

A sequel to the paper by R. W. Keeton, and others, 1946, q. v., and (on the basis of the two studies) a general conclusion "that dietary modifications may exert considerable and favorable effects upon the ability of man to withstand exposure to intense cold. High-carbohydrate, and particularly high-fat, foods are to be preferred to high-protein foods. Small meals spaced at short intervals of time (2 hours) are more favorable in this respect than large meals spaced at the usual four to six-hour intervals." **Copy seen:** DLC.

**MITCHELL, HAROLD HANSON, 1866-**, see also Glickman, N., & others. Tolerance of men to cold: high vs. low water-soluble vitamins. 1946. No. 22134.

**MITCHELL, HAROLD HANSON, 1886-**, see also Keeton, R. W., & others. Tolerance of man to cold: proteins. 1946. No. 23178.

**MITCHELL, HAROLD HANSON, 1886-**, see also Treichler, R., & H. H. Mitchell. Influence plane of nutrition & environmental temperature on . . . metabolism. 1941. No. 26795.

**24390. MITCHELL, J. L.** Arctic flights of the *Aries*, 1951. (Polar record, July 1952. v. 6, no. 44, p. 474-83, illus. map)

*Contains* an account of a polar flight of students of the R. A. F. Flying College at Manby (England) in a modified "Lincoln" bomber (Captain W. T. Frogley); includes sections on the earlier arctic flights of the school, problems of navigation, weather and communications, crew, survival equipment; and a detailed narrative of the flight via Keflavik (Iceland) to the North Pole, thence to Eielson, near Fairbanks (Alaska) on July 24, 1951 and the return from Eielson to Manby, Aug. 3-4.

**Copy seen:** CaMAI; DLC.

**24391. MITCHELL, MAIRIN.** The maritime history of Russia, 848-1948. London, Sedgwick & Jackson, 1949. xvi, 544 p. illus., maps

*Contains* several chapters on exploration and development of the northern waters; e. g. chap. 2 (p. 73-112) the Northeast Passage; chap. 7 (p. 193-202) the Soviet Far East; chap. 8 (p. 208-213) Bering Sea, the Northwest coast of America; (p. 221-33) the Russian-American Fur Company; chap. 9 (p. 240-56) Alaska; chap. 10 (p. 257-71) the Siberian sea road; chap. 11 (p. 274-80) ice-breakers; chap. 13 (p. 306-310) the White Sea canal. Includes extensive bibliography (p. 455-80) and index, p. 481-544.

Reviewed (by T. E. Armstrong) in *Polar record* July 1950. v. 5, no. 40, p. 634-35 as a comprehensive work somewhat digressive and ill-arranged, based largely on secondary sources.

**Copy seen:** DLC; MH.

**MITCHELL, R. L.**, see Wager, L. R., & R. L. Mitchell. Distribution Cr, V, Ni, Co & Cu during fractional crystallization of basic magma. 1950. No. 27204.

**MITCHELL, R. L.**, see also Wager, L. R., & R. L. Mitchell. Distribution trace elements, Skaergaard intrusion. 1951. No. 27205.

**24392. MITCH, G. B.** A tourmaline-bearing horizon in the quartzites of the Aldan plate. (Akademiiâ nauk SSSR.

Comptes rendus (Doklady), 1946. nouv. ser., v. 53, no. 3, p. 243-45)

A general description of a tourmaline (dravite)-bearing stratum at the southwestern margin of the Aldan plate (eastern Yakutia). **Copy seen:** DLC.

**24393. MITRA, S. K.** Atomic nitrogen in auroras. (Nature, June 1951. v. 167, no. 4257, p. 897) **Copy seen:** DA.

**24394. MÜLLER, R. B.** Kareliä v XVII veke; sbornik dokumentov; sostavljen R. B. Müller, pod red. A. I. Andreeva. Petrozavodsk, Gos. izd-vo Karelo-Finskoi SSR, 1948. 441 p. **Title tr.:** Karelia in the 17th century; a collection of documents; compiled by R. B. Müller, under editorship of A. I. Andreev.

Documents and materials on the socio-economic aspects of life in Karelia of the 17th century **Copy seen:** DLC.

**24395. MJÖBERG, ERIC GEORG.** Om *Pissodes validirostris* Gyll. en i Sverige hittills obekattad skadeinsect på tall jämte en öfersikt af öfriga skadliga arter af samma släkte. (Entomologisk tidskrift, 1909. Årg. 30, häft. 3-4, p. 243-64, illus.) **Title tr.:** On *Pissodes validirostris* Gyll., an insect injurious to pines, overlooked in Sweden up to the present time, with a review of other pests of the same genus.

Contains a systematic and biological revision of Swedish bark-boring beetles of coleopterous genus *Pissodes*, with a key to the species, descriptions of six species (including *P. validirostris* in Norrbotten, *P. gyllenhalii* and *P. piniphilus* in Lapland), data on their larvae and pupae, and damage done by them to pine forests of Sweden.

**Copy seen:** DLC; MH-Z.

**24396. MJÖBERG, ERIC GEORG.** Svensk insektfauna 8:1. Neuroptera, första underordningen. Planipennia. (Entomologisk tidskrift, 1909. Årg. 30, häft. 3-4, p. 130-61, illus.) **Title tr.:** Swedish insect fauna 8:1. Neuroptera, first suborder: Planipennia.

Contains a taxonomic treatment of the first suborder, Planipennia, of the order Neuroptera, with a general sketch, keys to the families, genera and species; descriptions of 54 species with critical notes and data on distribution.

**Copy seen:** MH-Z.

**24397. MOBERG, ADOLF, 1813-1895.** Fenologiska iakttagelser i Finland åren

1750-1845. Helsingfors, Finska litteratur-sällskapets tryck., 1894. xi, 165 p. (Bidrag till kännedom af Finlands natur och folk, Häft. 55) **Title tr.:** Phenological observation in Finland, 1750-1845.

Though termed a "supplement," this is rather a second edition, with a few additional data, of the author's original work *Naturalhistoriska daganteckningar gjorda i Finland åren 1750-1845*, q. v.

**Copy seen:** DLC; MH-Z.

**24398. MOBERG, ADOLF, 1813-1895.** Naturalhistoriska daganteckningar gjorda i Finland åren 1750-1845. (Societas pro fauna et flora fennica. Notiser ur förhandlingar, 1857. t. 3, p. 95-250) **Title tr.:** A natural-history diary for the years 1750-1845 in Finland.

Contains phenological data for the years 1750-1845 compiled by the author from a variety of records and his own observations, covering various regions of Finland including localities in Kuusamo (66° N.), Sodankylä (67°30' N.), Utsjoki (69°55' N.), Rovaniemi (66°30' N.), and Inari (69° N.). The data comprise tables of the blossoming time of about 200 plants (p. 113-89) including some woody species and such economic plants as wheat, rye, barley, potatoes; observations on migratory habits of over 60 species of birds; spawning time of some amphibians and fishes; observations on annual appearance of 15 species of various insects; time of the ice break-up on rivers in Finland and of the first snowfall.

**Copy seen:** MH-Z.

**24399. MOBERG, ADOLF, 1813-1895.** Sammandrag af de klimatologiska anteckningarna i Finland år 1878. (Finska vetenskaps-societeten, Helsingfors. Översigt af förhandlingar, 1879. Bd. 21, p. 261-84) **Title tr.:** Summary of climatological notes from Finland for the year 1878.

Contains animal and plant phenological observations from a series of stations including Rovaniemi, Sodankylä, Utsjoki in the North. Dates of arrival of migratory birds; appearance of leaves and blossom on common trees, shrubs and cultivated plants are offered, as well as data of ice formation and break-up. Air temperatures and precipitation represent only the more southerly localities. These climatological summaries with more limited scope were a feature of this journal from 1862. They continued through 1893 (Bd. 36, p. 199-229) and included data from a few other northern stations.

They were presented by Moberg except those of 1879 by G. H. Ohmman, 1882 and 1886 by N. K. Nordenskiöld.

**File seen:** DLC.

**24400. MOCHUL'SKIĬ, VIKTOR IVAN-OVICH, 1810-1871.** Coléoptères du gouvernement de Iakoutsk recueillis par M. Pavlovski. (Akademiia nauk SSSR. Mélanges biologiques, 1859. v. 3, p. 221-38) **Title tr.:** Coleoptera of Yakutsk Government collected by Mr. Pavlovskii.

**Contains** a systematic list of 120 species of beetles, including Latin diagnoses of 19 new species and critical notes on some interesting forms. **Copy seen:** MH-Z.

**24401. MOCHUL'SKIĬ, VIKTOR IVAN-OVICH, 1810-1871.** Énumération des nouvelles espèces de coléoptères rapportées de ses voyages. 3-ième article. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1860. t. 33, no. 2, p. 539-88)

**Contains** Latin diagnoses of 92 new species of beetles collected by the author during his travels, including *Microlymma? laticollis* n. sp. from the northernmost Siberia, Yenisey River region, and probably some other species indicated as native to "northern Siberia."

**Copy seen:** DLC: MH-A.

**24402. MOCHUL'SKIĬ, VIKTOR IVAN-OVICH, 1810-1871.** Genres et espèces d'insectes publiés dans différents ouvrages par Victor Motschoulsky. St. Petersburg, Impr. V. Besobrasoff & Co., 1868. 118 p. (Russkoe entomologicheskoe obshchestvo, St. Peterburg. Trudy (Horae). t. 6, Suppl.) **Title tr.:** Genera and species of insects published in various papers of Viktor Mochul'skii.

**Contains** a bibliography (47 items) of the author's entomological papers, p. 1-4, and a systematic list of about 3200 genera and species of beetles, 53 butterflies and moths, and approx. 250 other insects. Many species from northern regions of European and Asiatic Russia and from Alaska (Sitka, now Wrangell Island) are included. Index of genera, p. 105-118. **Copy seen:** MH-Z.

**24403. MOCHUL'SKIĬ, VIKTOR IVAN-OVICH, 1810-1871.** Hydrocanthares de la Russie. Helsingfors, Imprimerie de la Société de Liter. Finnoise, 1853. 15 p. **Title tr.:** Hydrocantharæ of Russia.

**Contains** a systematic list of 490 species of aquatic beetles with places of origin, including some species from northern

Finland, northern Russia and Sitka (Wrangell) Island (Alaska).

**Copy seen:** MH-Z.

**24404. MOCHUL'SKIĬ, VIKTOR IVAN-OVICH, 1810-1871.** Die Käfer Russlands, I. Insecta Carabica. Moskau, Buchdruck. v. W. Gautier, 1850. iv, 91 p., fold. tables I-XI. **Title tr.:** Beetles of Russia I, Carabida.

**Contains** tables for the determination of ground beetles of Russia and a systematic list of 2069 species, native to European and Asiatic Russia, Finland and Alaska (Wrangell Island), with critical remarks and brief descriptive data on some species in footnotes.

**Copy seen:** MH-Z.

**24405. MOCHUL'SKIĬ, VIKTOR IVAN-OVICH, 1810-1871.** Nouveautés. (Études entomologiques, 1852, pub. 1853. t. 1, p. 77-80) **Title tr.:** Novelties.

**Contains** descriptive notes on 12 beetles from various regions, including *Dytiscus parvulus* and *Chrysobothris cicatricosa* from Kodiak Island, *Phlaeopterus fusconiger* native to Unalaska, and *Proboscis 4-maculata* collected on Sitka (i. e. Wrangell) Island.

**Copy seen:** MH-Z.

**24406. MOCHUL'SKIĬ, VIKTOR IVAN-OVICH, 1810-1871.** Sur les hétérocères de Russie. (Études entomologiques, 1853, pub. 1854, t. 2, p. 14-21) **Title tr.:** On Heterocera of Russia.

**Contains** descriptions of 15 Russian species of lepidopterous genus *Heterocerus*, including *H. maritimus* native to Kamchatka Peninsula and *H. tristis* from Sitka (Wrangell) Island.

**Copy seen:** MH-Z.

**MODZALEVSKIĬ, L. B.,** see Castrén, M. A. Pamfāti M. A. Kastrena. 1927. No. 21135.

**24407. MØHL-HANSEN, U.** Fuglelivet på Pearyland, Nordgrønland; jagttagelser på "Dansk Pearyland Ekspedition" sommeren 1947. (Dansk ornithologisk forening. Tidsskrift, 1949. Årg. 43, hefte 2, p. 109-129, illus., plate) **Title tr.:** Bird life in Peary Land, North Greenland. Observations from the Danish Pearyland Expedition in the summer of 1947.

**Contains** an account of the ornithological results and collections obtained during the first summer of this expedition, including data on physical geography of the area near Jørgen Brønlunds Fjord 82°11' N. 31°30' W. on the south coast

of Peary Land. A list of 11 species of observed birds is offered with dimensions and notes on habitat, ecology and phenology. Summary in English.

**Copy seen:** MH.

**MØLLER, M. FRIIS**, editor, see Birket-Smith, K., & others. Grønlands bogen. 1950. No. 20697.

**24408. MÖRNER, CARL THORE.** 1864- . Några östliga växter en svensk mark, I. *Chaerophyllum bulbosum* L. var. *prescottii* (De) Fr. II. *Primula sibirica*, Jacq. var. *arctica*. (Acta florae Sueciae, 1921. Bd. 1, p. 161-84, illus., plates 1-12, map) **Title tr.:** Some plants of eastern origin in Sweden, I.

Contains data on morphology, taxonomy and geographic distribution of two herbs of eastern origin: *Chaerophyllum bulbosum* var. *prescottii* previously known from Siberia, Russian Lapland, northern Finland then found in Swedish Lapland, and *Primula sibirica* var. *arctica*, native to Siberia, growing in the Haparanda region (65°50' N.) of northern Sweden; bibliography (26 items).

**Copy seen:** MH-A.

**24409. MÖSCHLER, HEINRICH BEN-NO, 1831-1888.** Beiträge zur Lepidopteren-Fauna von Labrador. (Wiener entomologische Monatschrift, 1860. Bd. 4, nr. 11, p. 329-81) **Title tr.:** Contributions to Lepidoptera fauna of Labrador.

Contains a review of published data on this fauna, including the author's list (17 species) published in 1848, and a revised annotated list (57 species) of butterflies and moths. For further information see the author's *Beiträge*, 1862 and 1870.

**Copy seen:** MH-Z.

**24410. MÖSCHLER, HEINRICH BEN-NO, 1831-1888.** Beiträge zur Schmetterlings-Fauna von Labrador. (Wiener entomologische Monatschrift, 1862. Bd. 6, nr. 5, p. 129-39, plate 1) **Title tr.:** Contributions to the Lepidoptera fauna of Labrador.

Contains descriptions of nine new species of butterflies native to Labrador, and a list of seven species new to the lepidopterous fauna of that region, bringing the number of the species recorded by the author in this and his earlier paper, *Beiträge*, 1860, q. v., up to 70.

**Copy seen:** MH-Z.

**24411. MÖSCHLER, HEINRICH BEN-NO, 1831-1888.** Beiträge zur Schmetterlingsfauna von Labrador. (Stettiner

entomologische Zeitung, 1870. Bd. 31, no. 1-3, p. 113-25, no. 4-6, p. 251-54, no. 7-9, p. 265-72, no. 10-12, p. 364-75) **Title tr.:** Contributions to Lepidoptera fauna of Labrador.

Contains critical notes on 122 species of butterflies and moths of Labrador, including *Mamestra rogenhoferi* n. sp.; this supplements other papers of the author published under the same title in 1848, 1860 and 1864, q. v.

**Copy seen:** MH-Z.

**24412. MÖSCHLER, HEINRICH BEN-NO, 1831-1888.** Beitrag zur Schmetterlings-Fauna von Labrador. (Stettiner entomologische Zeitung, 1848. Bd. 9, no. 6, p. 172-74) **Title tr.:** A contribution to the Lepidoptera fauna of Labrador.

Contains a list of 17 species of lepidoptera received by the author from a missionary in Labrador, with some critical notes and data on their occurrence in northern Europe (Lapland, Iceland) and Asia (Siberia). For further information see the author's *Beiträge*, 1860, 1862 and 1870.

**Copy seen:** MH-Z.

**24413. MOFFIT, FRED HOWARD, 1874- , and R. E. FELLOWS.** Copper deposits of the Prince William Sound district, Alaska. Washington, U. S. Govt. Print. Off., 1950. iv, 47-80 p., sketch map, 4 fold. maps. (U. S. Geological Survey. Bulletin 963-B)

Review of the copper deposits and account of the present state of copper prospects, including the extent of development work and condition of the equipment in over thirty localities, claims and properties between 59°52'-61°20' N. 146°-148°20' W.

**Copy seen:** DGS.

**MOFFIT, FRED HOWARD, 1874- ,** see also Sargent, R. H., & F. H. Moffit. Aerial photo surveys SE Alaska. 1929. No. 25837.

**24414. MOHN, HENRIK, 1835-1916.** Bidrag til Øst-Ishavets klimatologi og meteorologi. (Norske videnskaps-akademi, Oslo. Forhandlinger, 1874, pub. 1875, p. 74-106, tables) **Title tr.:** Contributions to the climatology and meteorology of the eastern Arctic Ocean.

Contains a study of climatic conditions based on a summary of the meteorological observations of Capt. S. Tobiesen on the western coast of Novaya Zemlya 1872-73 and Bear Island, 1865-66 (see *Arctic Bibliography*, No. 11597); Norwegian sailors in Isfjorden on West Spitsbergen

(1872-73) and Dutch sailors on the eastern coast of Novaya Zemlya (Sept. 1596-May 1597). A climatological survey of winter conditions in Barents Sea and surrounding lands (Spitsbergen-Bear Island-Novaya Zemlya-Arkhangelsk province-northern Scandinavia) is given, p. 96-102; and data on the winter of 1872-73, p. 103-105.

**Copy seen:** DLC; MH-Z.

**24415. MOHN, HENRIK, 1835-1916.** Havets temperatur mellem Island, Skotland og Norge. (Norske videnskaps-akademi, Oslo. Forhandlinger, 1869, pub. 1870, p. 321-29, map) **Title tr.:** Temperature of the ocean between Iceland, Scotland and Norway.

**Contains** a summary of observations of various meteorological stations on seawater temperature in this region (roughly 59°-73° N. 20° W.-20° E.) for various seasons and months also at various depths (see tables on p. 323-24, 327-28 and map). **Copy seen:** DLC; MH-Z.

**24416. MOHN, HENRIK, 1835-1916.** Nogle bemaerkninger om tordenveirenes dannelse. (Norske videnskaps-akademi, Oslo. Forhandlinger, 1868, pub. 1869, p. 321-29) **Title tr.:** Some notes on the development of thunderstorms.

**Contains** some conclusions on the frequency and intensity of thunderstorms, based on the study of about 250 such storms occurring in Norway during the June-September period of 1867. Includes data on the northern provinces of Norway. **Copy seen:** DLC; MH-Z.

**24417. MOHN, HENRIK, 1835-1916.** Norges vind- og stormstatistik. (Norske videnskaps-akademi, Oslo. Forhandlinger, 1869, pub. 1870, p. 218-63) **Title tr.:** Wind and storm statistics of Norway.

**Contains** a meteorological study based on the records of 15 Norwegian stations, including those at Vardø (70°22' N.) and Andenes (69°19' N.), with tabulated data on the frequency of windy or stormy days, direction and force of wind, atmospheric pressure, etc., also monthly and yearly averages for each station.

**Copy seen:** DLC; MH-Z.

**24418. MOHN, HENRIK, 1835-1916.** Norske fangst-skipperes opdagelse af Kong Karl-Land. (Norske videnskaps-akademi, Oslo. Forhandlinger, 1872, pub. 1873, p. 170-88, fold. map) **Title**

**tr.:** Exploration of Kong Karls Land by Norwegian skippers.

**Contains** brief historical notes on the exploring trips of some Norwegian sealers, including those of Elling Carlsen on the *Jan Mayn* in 1859 and 1863; Capt. Tobiesen with Th. v. Heuglin and Graf Zeil on the brig *Aeolus* in 1864; Capt. Ulve on the *Samson* in 1871; Capt. Altmann on the yacht *Elvine Dorothea*; Nils Johnsen on the yacht *Lydianna* in May 1872, (with list of six mammals and ten birds, p. 177-78); and Capt. Johannes Nilsen on the yacht *Freia*. The map of the eastern Svalbard area was compiled by Mohn on the basis of captains' reports, their journals, sketches, etc.

**Copy seen:** DLC; MH-A.

**24419. MOHN, HENRIK, 1835-1916.** Tordenveier i Norge i sommeren 1867. (Norske videnskaps-akademi, Oslo. Forhandlinger, 1867, pub. 1868, p. 169-201) **Title tr.:** Thunderstorms in Norway in the summer of 1867.

**Contains** a record of 46 thunderstorms, with tabular data on the direction, cloud drift, strength of wind, atmospheric pressure, extension of the storm, velocity, temperature, etc. Includes data on northern provinces.

**Copy seen:** DLC; MH-Z.

**24420. MOHR, ERNA.** Die Stimme der Robben in den europäischen Gewässern. (Naturwissenschaftlicher Verein für Schleswig-Holstein. Schriften, 1915. Bd. 25, p. 29-33) **Title tr.:** The voice of seals in European waters.

**Records** from 19th and 20th century literature on sounds made by seals, with notes on differences (in sound) among several species. Bibliography (16 items).

**Copy seen:** DGS.

**MOISEENKO, S. N.,** see Novoselov, N. S., & others. *Lesá DVK.* 1938. No. 24747.

**24421. MOISEEV, P. A.** Gidrologicheskie issledovaniia dal'ne-vostochnykh morei za 15 let sovetskoi vlasti. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1938. No. 30 (3), p. 203-217) **Title tr.:** Hydrological investigations in Far East Region during 15 years of Soviet power.

**Contains** historical data on oceanographic investigations of the Far Eastern seas in the pre-revolutionary period (Makarov, Soldatov, Brazhnikov) and (especially) work after the revolution of

1917, carried out by various expeditions organized mostly by the State Hydrological Institute (expeditions of 1928-30 to Okhotsk Sea) and the Pacific Scientific Research Institute of Fishery and Oceanography (TINRO). Includes the important expedition of 1932 (Japan, Okhotsk and Bering Seas) and later expeditions to the same seas and to Chukchi Sea (1924, 1929-35). Bibliography (35 items).

**Copy seen:** DLC; MH-A.

**2422. MOISEEV, P. A.** K voprosu o temperaturnom rezhime Beringovomorskoi treski. (Rybnoe khozaiŭstvo Dal'nego Vostoka, 1934, no. 1-2, p. 94-97, illus.) **Title tr.:** On the temperature régime of the cod of Bering Sea.

An article based on several sources, giving the temperatures under which the cod of this area lives, and the size of catches as depending on temperature.

**Copy seen:** DLC.

**2423. MOISEEV, P. A.** Novye dannye o treske Zapadnoi Kamchatki. (Bülleten' rybnogo khozaiŭstva, 1940, no. 3, p. 27-29) **Title tr.:** New data on the cod of West Kamchatka.

Report on a 14 months' investigation on the life cycle of the cod on the continental shelf. The occurrence, frequency and abundance in various locations and seasons are discussed as well as the problems of reproduction.

**Copy seen:** DLC.

**2424. MOISEEV, P. A.** Promyslovye kamby Dal'nego vostoka. Vladivostok, Primizdat, 1946. 60 p. (Ministerstvo rybnoi promyshlennosti vostochnykh raiŭonov SSSR. Tikhookeanskii nauchno-issledovatel'skii in-stitut rybnogo khozaiŭstva i okeanografii) **Title tr.:** Commercial flounders of the Far East.

Contains notes on the development of the flounder fishery in the Far East; a table for the determination of commercial species (p. 11-14) including *Limanda proboscidea proboscidea* and *Liopsetta glacialis* native to Kamchatka waters, and Okhotsk Sea; data on distribution and migration, including notes on Kamchatka (p. 41-47); biology of the flounder; industrial notes, etc. (p. 47-60).

**Copy seen:** MH-Z.

**2425. MOLCHANOV, A. A.** Promerzanie i ottaivanie pochvy. (Lesnoe khozaiŭstvo, 1950, t. 3, no. 1, p. 27-31, tables) **Title tr.:** Freezing and thawing of soil.

"On the basis of some detailed but fragmentary data made by the Institute of Forestry of the Akademiâ nauk, on the temperature of snow and soil at various depths (0 to 60 cm.) at 7, 13 and 19 h. (1945-1948), the author confirms recent ideas about the connection between the character of the snow cover, etc. and the depth of freezing of soil. Determination of depth of freezing cannot be precise when thermometers are used, because the freezing point varies with physical and chemical composition of soil. Heavy lime soils do not freeze even at temperatures much below the usual ( $-0.1$  to  $-0.5^{\circ}$  C.). The speed of spring thawing also varies, the daily mean ranging from a speed of 8 cm. to 0.1 cm. The highest speed occurs in pine forests and the lowest in bare fields."—*Meteorological abstracts and bibliography*, Oct. 1950, v. 1, no. 10, p. 651. **Copy seen:** DLC.

**2426. MOLCHANOV, L. A.** Die Chaetognathen des Zoologischen Museums der Kaiserlichen Akademie der Wissenschaften in St. Petersburg. (Akademiâ nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1907, t. 12, no. 2, p. 203-212, illus.) **Title tr.:** Chaetognaths of the Zoological Museum of the Imperial Academy of Sciences in St. Petersburg.

Contains an enumeration of 9 species of this class of free-swimming marine worms (Chaetognatha), including *Sagittata glacialis* n. sp. (Barents and White Sea), *S. melanognatha* n. sp. (Bering Island), two other species from the Barents Sea and *Krohnia hamata borealis* n. var. collected in Svalbard waters.

**Copy seen:** DLC; MH-Z.

**2427. MOLCHANOV, L. A.** Ornitologicheskii nablûdeniâ liŭtom 1907 g. v Arkhangel'skoi gubernii (na materikê i Novoi Zemlê). (Akademiâ nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1908, t. 13, no. 3, p. 303-314) **Title tr.:** Ornithological investigations in the summer of 1907 in Arkhangel'sk Government (on the mainland and Novaya Zemlya).

Contains a list of 32 birds found in the vicinity of Arkhangel'sk, 21 near Aleksandrovskaia on the Murman coast of Kola Peninsula, and 23 in the region of Matochkin Shar, Novaya Zemlya, with data on habitat and observations.

**Copy seen:** DLC; MH-Z.

**MOLDAVANTSEV, E. P.,** see Samoilovich, R. L., & others. Geologiâ Arktiki. 1937. No. 25812.

**24428. MOLNAR, GEORGE WILLIAM, 1914-** . Energy expenditure and endurance of men in an arctic bivouac. Fort Knox, Ky. April 1950. 58 p., illus., tables, diagrs., mimeographed. (U. S. Army. Medical Dept., Field Research Laboratory, Project no. 6-64-12-03-(13))

*Contains* report on seven men studied in a 14-day temperate bivouac exercise during November, and in a 13-day arctic bivouac exercise during the following February. Methods, materials and results of study are given in detail. The results indicate physiologically significant similarities and differences between the two environments. Following variables were present only in the Arctic: ketonuria; an unidentified, reducing substance in the urine, probably a glycerinate, and an unidentified urinary pigment, possibly a hemoglobin degradation product. Psycho-physiological aspects are also discussed. Bibliography (39 items). Appendices give list of clothing worn, etc. **Copy seen:** DSG.

**24429. MOLNAR, GEORGE WILLIAM, 1914-** , and **E. F. ADOLPH.** Heat exchanges of man in cold outdoor environments. (Federation proceedings, Feb. 1946. v. 5, p. 74)

*Contains* an abstract of observations on men exposed to cool outdoor environments for one to four hours. Surface and rectal temperatures, heat production and loss are recorded and analyzed. **Copy seen:** DLC.

**24430. MOLNAR, GEORGE WILLIAM, 1914-** . Survival of hypothermia by men immersed in the ocean. (American Medical Association. Journal, July 27, 1946. v. 131, p. 1046-50, diagrs.)

"The recorded times of immersion of shipwreck survivors, on file in the Bureau of Medicine and Surgery, U. S. Navy, were plotted against the seawater temperatures," and the resultant curve is said probably to represent a limit of tolerance. The literature on survival of experimental survival is discussed and description given of physiologic reactions to cold, leading to death. **Copy seen:** DLC.

**MOLNAR, GEORGE WILLIAM, 1914-** , *see also* Adolph, E. F., & G. W. Molnar. Exchanges of heat & tolerances to cold. 1946. No. 20043.

**MOLNAR, GEORGE WILLIAM, 1914-** , *see also* Adolph, E. F., & G. W.

Molnar. Temperature gradients in men exposed to cold. 1946. No. 20048.

**24431. MOLODENSKIĬ, M. S., and V. V. FEDYNSKIĬ.** Tridtsat' let Sovetskoi gravimetrii (1917-1947). (Akademiia nauk SSSR. Seriiã geograficheskaiã i geofizicheskaiã, 1947. t. 11, no. 5, p. 395-408) **Title tr.:** Thirty years of Soviet gravimetry (1917-1947).

*Contains* data on 30 years' development in gravimetric work, including measurements on the Arctic Ocean and Okhotsk Sea, and the application of gravimetric observations in the search of oil in the Ural Mts. and Yakutia, eastern Siberia. **Copy seen:** MH.

**24432. MOLOTOV, VIACHESLAV MIKHAILOVICH, 1890-** and **V. KUĬBY. SHEV.** O vtoroi piatiletke; doklady na XVII konferentsii VKP(b) o direktivakh k sostavleniiu vtorogo piatiletnego plana narodnogo khoziaistva SSSR, 1933-1937. Moskva, Partinoe izd-vo, 1932. 95 p. **Title tr.:** On the second five-year plan; reports of the 17th conference of the VKP (b) [All-Union Communist Party (bolshevik)] on the directives for completion of the second five-year plan of the national economy of the U.S.S.R.

This general report includes sections on the development of arctic areas both in Europe and Asia. **Copy seen:** DLC.

**MOLTREKHT, A.,** *see* Bianki, V. L. Spisok ptits r. Anadyra. 1908. No. 20676.

**24433. MONCHADSKIĬ, ALEKSANDR SAMOILOVICH.** Aktivnost' napadeniia komarov na cheloveka v prirodnykh usloviakh. (Akademiia nauk SSSR. Izvestiia. Otdelenie biologicheskikh nauk. Seriiã biologicheskaiã, 1946. no. 2-3, p. 233-50) **Title tr.:** Mosquito attacks on man as observed under natural conditions.

*Contains* data on environmental factors (temperature, relative humidity, wind, light, etc.) influencing the activity of mosquitoes against man, based partially on observations in the northern regions (*see* p. 243) of the U.S.S.R.; bibliography (38 items). Summary in English. **Copy seen:** MH.

**24434. MONCHADSKIĬ, ALEKSANDR SAMOILOVICH.** Lichinki komarov (sem. Culicidae) SSSR i sopredel'nykh stran. Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1936. 383 p., illus.

(In: Akademiia nauk SSSR. Opredeliteli po faune SSSR. no. 24) **Title tr.:** Larvae of mosquitoes (fam. Culicidae) of the U.S.S.R. and adjacent countries.

**Contains** in the general part (p. 1-84) data on external and internal morphology, coloring, movements and growth of the larvae of culicine mosquitoes (Culicidae), their evolution and the methods of determination; bibliography (over 120 items) p. 79-84. The special part (p. 85-375) contains the tables for the determination of the larvae of the families of Diptera nematocera, families, subfamilies, tribes, genera and species of Culicidae, with descriptions, synonymy and data on ecology and geographic distribution in the U.S.S.R. and other countries. Many species native to northern regions are included.

The paging of the work is defective: p. 177-80 follow p. 174; p. 185-88 follow p. 192. Another edition was published: *Lichinki krovososushchikh komarov SSSR*, 1951, q. v. **Copy seen:** DLC; MH-Z.

**24435. MONCHADSKII, ALEKSANDR SAMOILOVICH.** Lichinki krovososushchikh komarov SSSR i sopredel'nykh stran (podsem. Culicinae). 2-e ispravlenoe i dopolnennoe izdanie. Moskva-Leningrad, Izd-vo Akademii nauk, 1951. 290 p., illus. (142 figs.). (In: Akademiia nauk SSSR. Opredeliteli po faune SSSR. no. 37) **Title tr.:** Larvae of blood-sucking mosquitoes of the U.S.S.R. and adjoining countries (subfamily Culicinae). Second revised and enlarged edition.

This edition differs considerably from the first (*Lichinki komarov* 1936, q. v.). New data accumulated during the fifteen-year interval are added, larvae of some oriental species included, determination tables are rewritten, many illustrations changed; an article on the evolution of the family Culicidae is dropped, the bibliography is drastically curtailed (37 items) and some African and southern Asian species excluded.

**Copy seen:** DLC; MH-Z.

**24436. MONCHADSKII, ALEKSANDR SAMOILOVICH.** Napadenie komarov na cheloveka v prirodnykh usloviakh subarkтики i faktory, ego regulirushchie. (Parazitologicheskii sbornik, 1950. t. 12, p. 123-66, diagrs., tables) **Title tr.:** Mosquito attacks on man under natural conditions of the sub-Arctic, and the factors regulating them.

**Contains** a report on studies made in

1946 and 1947 in the bush-tundra on the left bank of the Pechora (67°30' N. lat.). Temperature, light, humidity, wind and other factors affecting the activities of mosquitoes, are studied and the diurnal rhythm traced. Bibliography (about 50 items). **Copy seen:** DLC.

**24437. MONCHEZERSKAIĀ LIMNOLOGICHESKAIĀ ĖKSPEDITSIIĀ, 1933.** Materialy. Leningrad, Redaktsionno-izdatel'skii otdel TSUEGMS, Leningradskoe otd-nie, 1935. 225 p., fold. maps, tables. (Leningradskoe oblastnoe gidro-meteorologicheskoe upravlenie. Trudy otdela gidrologii. Seria 1: Materialy ekspeditsionnykh issledovaniĭ, t. 1) **Title etc., tr.:** Materials of the Lake Monche Limnological Expedition of the year 1933. (Report of the Hydro-Meteorological Administration of the Leningrad oblast', edited by G. I. Vereshchagin. Series 1, Results from expeditionary investigations, no. 1)

**Contains:** Short description of the region investigated (about 60° N. 32° 47' E., near Lake Imandra in Kola Peninsula); methods applied; description of each lake of the system (about 10) as to: morphological characteristics, bottom, water nutrients, hydrophysics and hydrochemistry, hydrobiology. Comparative characteristics of the Monche and Volch'ye water systems; the fish fauna of these two systems and their nutrition. Tables of: morphometric sizes of the lakes, areas of various types of bottoms, hydrophysical and hydrochemical data, quantitative plankton data, its composition, the benthos, its quantity and quality.

A supplement on leeches by L. Ioganson, q. v., is appended.

**Copy seen:** DLC.

**MONTANDON, GEORGE,** see Pfizenmayer, E. W. Mammouths de Sibirie. 1939. No. 25079.

**MONTELL, GUSTAF OSCAR AUGUSTIN, 1843-1921,** see Björkbohm, C. Two Bering maps. 1941. No. 20708.

**24438. MONTELL, JUSTUS ELIAS, 1869-** . *Agropyron caninum* (L.). P. B. var. *glaucescens* Lge & *mutabilis* Drob., en för Finlands flora ny hybrid. (Societas pro fauna et flora fennica. Memoranda, 1949-50, pub. 1951. v. 26, p. 109) **Title tr.:** *Agropyron caninum* (L.). P. B. var.

*glaucescens* Lge x *mutabilis* Drob., a new hybrid for Finland.

Contains data on the find of this *Agropyron* hybrid, new to the flora of Finland, in Muonio and Enontekis regions of Finnish Lapland; it occurs also in Sweden and in the Ponoy region of Russian Lapland (Kola Peninsula).

Copy seen: MH-Z.

**24439. MONTELL, JUSTUS ELIAS, 1869-** . *Carex rotundata* Wg. x *saxatilis* L., ny for Finlands flora. (Societas pro fauna et flora fennica. Memoranda, 1948-49, pub. 1950. no. 25, p. 105)

**Title tr.:** *Carex rotundata* Wg. x *saxatilis*, L., new for the flora of Finland.

Contains a description of this hybrid of sedges, found near Kilpisjaure in Finnish Lapland in the summer of 1948.

Copy seen: DLC; MH-A.

**24440. MONTELL, JUSTUS ELIAS, 1869-** . Hybriden *Carex Bigelowii* Torr. x *juncella* Fr. i finska Lappland. (Societas pro fauna et flora fennica. Memoranda, 1949-50, pub. 1951. v. 26, p. 108-109)

**Title tr.:** Hybrids of *Carex bigelowii* Torr. x *juncella* Fr. in Finnish Lapland.

Contains data on the geographic distribution of this sedge hybrid in Enontekis and Petsamo regions of Finnish Lapland, and in Ponoy, Kola Peninsula; it is also known from northern Sweden and Norway.

Copy seen: MH-Z.

**24441. MONTELL, JUSTUS ELIAS, 1869-** . Några ord om hybriden *Carex saxatilis* L. x *vesicaria* L. och dess förekomst i Kilpisjauretrakten, Le. (Societas pro fauna et flora fennica. Memoranda, 1948-49, pub. 1950. no. 25, p. 104-105) **Title tr.:** A few words on the hybrid *Carex saxatilis* L. x *vesicaria* L. and its occurrence in the Kilpisjaure region, Lapponia enontekiensis.

Contains a description and data on distribution of a hybrid of sedges, *Carex saxatilis* x *vesicaria* found in the vicinity of Kilpisjaure in the Enontekis region of Finnish Lapland, with references to some related species and hybrids.

Copy seen: DLC; MH-A.

**24442. MONTÉN, ERIK.** Nematomorpha. (In: Brinck, P. S. V., & K. G. Wingstrand. *Mountain fauna of Virihaure*, 1949-51, pt. 2, p. 162-70, illus.)

Contains descriptions of *Gordionus lapponicus* and *G. brunneus* n. spp. and critical notes on two other species of these fresh-water roundworms inhabiting the

lakes of the Virihaure area of Lule Lappmark, with notes on habitat and ecology, and data on distribution.

Copy seen: MH-Z.

**24443. MONTGOMERY, MARGARET R.** Climate. (In: Baird, P. D., and others. *Baffin Island Expedition*, 1950. Pub. in: *Arctic*, Dec. 1950. v. 3, p. 144-46)

Brief discussion of weather, May 25-Aug. 31, the expedition's Camp B situated at the head of Clyde Inlet where conditions are "more favorable than at the heads of the more exposed fiords," also inland weather. Remarks on sunshine, temperature, precipitation and wind, with comment "that Camp B enjoyed a more favorable climate than was typical of the area as a whole [east Baffin coast between about 69°30'-70°35' N. 69°40'-72°15' W.]. The aridity, the high daytime temperature and the diurnal range of temperature . . . stress its continental character."

Copy seen: DAI; DLC.

**24444. MONTGOMERY, MARGARET R.** Does the Bay freeze? (Beaver, June 1951. Outfit 282, no. 1, p. 12-15, illus.)

Discussion of winter ice conditions on Hudson Bay as studied since 1948 by McGill University, and the Canadian Meteorological Service parties using Royal Canadian Air Force planes for regular air reconnaissances.

Copy seen: DSI-M.

**24445. MONTGOMERY, MARGARET R.** Further notes on ice islands in the Canadian Arctic. (*Arctic*, Oct. 1952. v. 5, no. 3, p. 183-91, illus., map)

Contains account of ice islands discovered since those discussed by L. S. Koenig, q. v. 31 new islands are indicated on a map as well as changes in location of the islands previously reported, all the data assembled from air photographs. The distribution, position, drift, etc. of the islands are discussed. Some unexplained features ("lakes") of the inland-ice on Ellesmere are noted (from recent photographs) in relation to features of northern Ellesmere shelf ice.

Copy seen: DLC.

**24446. MONTGOMERY, MARGARET R.** Hudson Bay ice reconnaissance 1949-50. (*Arctic circular*, Oct. 1950. v. 3, no. 4, p. 40-46)

Results of four flights arranged by the Defence Research Board of Canada, Nov., Dec., Jan. and Mar., "to observe dates of freezing-up in various parts of the Bay and to note the characteristics of the

winter ice cover over the areas as a whole." The data are summarized for James Bay, and for the east coast, center and north, west coast and south Hudson Bay. **Copy seen:** CaMAI; DLC.

**24447. MONTGOMERY, R. B.** Discussion of some theories on temperature variations in the North Atlantic Ocean and in the atmosphere. (*In:* U. S. Weather Bureau. Reports on critical studies of methods of long-range weather forecasting, *pub.* as: Monthly weather review, Supplement, no. 39, 1940. W. B. No. 1268. p. 53-57, illus.)

"Mainly a discussion of the work of B. Helland-Hansen and F. Nansen."—*Metereological abstracts and bibliography*, Jan. 1951. v. 2, no. 1, p. 45. Includes bibliography (4 items). **Copy seen:** DWB.

**24448. MONTGOMERY, WILLIAM A.** The battle of Ballyhoo. (U. S. Navy. Civil Engineer Corps bulletin, Nov. 1950. v. 4, p. 303-305, incl. illus., diagr.)

"Seabee activities on Mount Ballyhoo, Amaknak (Alaska) included the construction of heavy concrete and steel structures with wall and roof thicknesses of 4 and 6 ft. A 30-ton Army crane was used to lift the concrete buckets from dump trucks to the forms. The completed pour was protected by coal-fired stoves and covered with tarpaulins and roofing paper."—SIPRE. **Copy seen:** DLC.

**24449. MONTREAL. BOTANICAL GARDEN.** Delectus seminum et sporarum quae Hortus Botanicus Montis-Regii pro mutua commutatione offert. Montreal, Montreal Botanical Garden, 1951. 23 p. illus. (*Its:* Memoirs, no. 16, 1951-52) **Title tr.:** A selection of seeds and spores which the Botanical Garden in Montreal offers for exchange.

**Contains** a catalog (in Latin) with the species arranged according to geographic areas and according to human use. Includes (p. 12, 13, 15) seeds collected in 1951: in northern Ungava by Jacques Rousseau, in northern Quebec (58° N. lat.) by Ernest Lepage, and in Yukon Territory by A. E. Porsild.

**Copy seen:** CaMI.

**MOODY, J. P.,** see Adamson, J. D., & others. Poliomyelitis in Arctic. 1949. No. 20041.

**24450. MOOR, GEORGIŬ G.** Charnokitovafâ seriâ Anabarskogo dokembriâ i skhodnye s neâ metamorficheskie obrazovaniâ. (Akademiiâ nauk SSSR.

Izvestiâ. Seriâ geologicheskâ, 1940. vyp. 6, p. 3-19) **Title tr.:** The Charnockite series of the Anabar pre-Cambrian and similar metamorphic formations.

**Contains** a review of the composition of the Anabar crystalline massif, a plateau in northwestern Yakutia, extending from the Kotuy basin through the upper and middle Anabar to the Olenek basin. From this, the archaic nature of the massif is established. The charnockite series is described as typical metamorphic rocks (hypersthene gneiss) formed at great depth and similar in composition to the charnockite series of archaic complexes: the Aldan Shield, Ukraine, Kola Peninsula, East India, Ellesmere Island, West Africa, etc. Bibliography (40 items). Summary in English. **Copy seen:** DLC.

**24451. MOOR, GEORGIŬ G.** K geologii ostrova Diksona. (Priroda, 1939. god 28, no. 7, p. 69-72, table) **Title tr.:** Concerning the geology of Dikson Island.

**Contains** note of the discovery of the island by Nordenskiöld Aug. 1875, its location (73°30' N. 86°26' E.), area, shores, population, relief, etc.; account of geological investigations since 1875 and their results to the time of the author's findings in 1937. Bibliography (15 items). **Copy seen:** DLC.

**24452. MOOR, GEORGIŬ G.** K voprosu ob otstupanii lednikov v arktike. (Priroda, 1940. v. 29, no. 9, p. 83-85) **Title tr.:** A contribution to our knowledge of the retreat of glaciers in the Arctic.

"Judging from measurements during the last 50 years made on glaciers in Novaya Zemlya and other Russian polar regions, Greenland, and Jan Mayen, polar glaciers are at present retreating. This recession is demonstrated also by moraine accumulations and by snowlines which have apparently risen during the same period."—Geological Society of America, *Bibliography and index of geology*, 1941-42, v. 9, p. 201.

**Copy seen:**

**24453. MOOR, GEORGIŬ G., and B. V. TKACHENKO.** K voprosu o vozraste verkhnikh gorizontov Angarskoî seriî. (Problemy arktiki, 1940. no. 11, p. 56-59) **Title tr.:** On the question of the age of the upper horizons of the Angara series.

"Age, boundaries, lithologic characters, and faunas of Carboniferous to Liassic zones within the Angara series (upper Paleozoic to middle Mesozoic) of the Lena-Yenisey River region, Russia."—Geological Society of America, *Bibliography and index of geology*, 1941–1942, v. 9, p. 201. **Copy seen:**

**24454. MOOR, GEORGIĬ G.** Micaceous kimberlites in the north of the Central Siberia. (Akademiā nauk SSSR. Comptes rendus (Doklady), 1941. nouv. ser., v. 31, no. 4, p. 363–65, tables)

"Notes the presence of micaceous kimberlites and basalt kimberlites of post-Permian age in north central Siberia (Taymyr Peninsula). They closely resemble the South African occurrences and diamonds may well be suspected."—Geological Society of America, *Bibliography and index of geology*, 1941–42, v. 9, p. 201. **Copy seen:** DLC.

**24455. MOOR, GEORGIĬ G.** Native copper in the lava field of the Siberian platform. (Akademiā nauk SSSR. Comptes rendus (Doklady), 1945. nouv. ser., v. 49, no. 1, p. 47–49)

"Grains of native copper were found in the pebble material of the Tomuktasi River [left tributary of the Kotuykan] indicating the possibility of locating native copper deposits in the vast lava field of the Siberian platform, U.S.S.R."—Geographical Society of America, *Bibliography and index geology*, 1945–1946, v. 11, p. 222. **Copy seen:** DLC.

**24456. MOOR, GEORGIĬ G., and B. V. TKACHENKO.** Novye dannye o stratigrafii angarskoĭ serii zapadnoĭ i severnoĭ okrain sibirskoĭ platformy. (Akademiā nauk SSSR. Izvestiā. Seriiā geologicheskoi, 1941, no. 6, p. 9–15) **Title tr.:** New data on the stratigraphy of the Angara series of the western and northern marginal parts of the Siberian platform.

"The Angara series of continental-lagoonal formations, widespread in the Siberian platform, is subdivided into Djaltulian, Burguklian, Noginsk, Chapkottian, Pelyatkian, Degalian and Koryuchanian series. The Angara series of the basin of the Kheta River is subdivided into productive, tuffaceous, tuff-lava, and lava series. The earlier are Permian in age and the later Triassic."—Geological Society of America. *Bibliography and index of geology*, 1943–44, v. 10, p. 88. Summary in English.

**Copy seen:** DLC.

**24457. MOOR, GEORGIĬ G.** On the alkaline province in the northern part of Central Siberia. (Akademiā nauk SSSR. Comptes rendus (Doklady), 1940. nouv. ser., v. 29, no. 3, p. 225–29)

"Notes occurrences of alkaline, low silica rocks in central Siberia in sufficient numbers to show the existence of an alkaline petrographic province in that region. Alnoite, ijolite, melteigite, limburgite, augitite, and melilitite basalt, are noted and several examples described."—Geological Society of America, *Bibliography and index of geology*, 1941–42, v. 9, p. 201. **Copy seen:** DLC.

**24458. MOOR, GEORGIĬ G., and B. N. ROZHKOV.** On the finding of bituminous rocks in the Cambrian deposits of north-west Yakutia (Anabar River). (Akademiā nauk SSSR. Comptes rendus (Doklady), 1935. nouv. ser., v. 4 (9), no. 6–7 (75–76), p. 273–77, tables)

The finding of bituminous rocks in the Anabar River area has increased the possible distribution area of these rocks within the territory. This fact has special importance for the solution of the Khatanga oil problem.

**Copy seen:** DLC.

**24459. MOOR, GEORGIĬ G.** On the forms of the relief of the northern parts of the Siberian platform (basin of the middle course of the Kotui river). (Akademiā nauk SSSR. Comptes rendus (Doklady), 1946. nouv. ser., v. 53, no. 3, p. 247–50)

"Describes the principal morphological features of the area [approx. 67° N. 101° E.], emphasizing that recent investigations have revealed a greater diversity of relief forms within the north Siberian platform region."—Geological Society of America, *Bibliography and index of geology*, 1947, v. 12, p. 164.

**Copy seen:** DLC.

**24460. MOOR, GEORGIĬ G.** On the spar-bearing province of the Siberian trap region. (Akademiā nauk SSSR. Comptes rendus (Doklady), 1945. nouv. ser., v. 48, no. 6, p. 423–26)

"The effusive members of the Siberian trap formation occupy a vast territory (350,000 sq. km.) [between Lena and Yenisey Rivers in area of the Kotuy divide, Nizhnyaya Tunguska, Kureyka and Kheta Rivers] within the northern parts of the Siberian platform, U.S.S.R. The lava field is composed of numerous

sheets of trap rock, lower and middle Triassic in age. The most economically valuable accumulations of Iceland spar occur in the lower horizons of the lava series [in the middle course of the Nizhnyaya Tunguska].—Geological Society of America, *Bibliography and index of geology*, 1945-46, v. 11, p. 222.

**Copoly seen:** DLC.

**MOOR, GEORGIĠ G.**, *see also* Rozhkov, B. N., & G. G. Moor. Granity anabarskogo dokenbriā. 1936. No. 25704.

**MOOR, GEORGIĠ G.**, *see also* Rozhkov, B. N., & G. G. Moor. O nizhnem Kembrii Anabarskogo ralona. 1936. No. 25705.

**24461. MOORE, CLARENCE A.** Alaska farms: organization and practices in 1949. Palmer, Alaska, 1951. 55 p. tables, diags. (Alaska. Agricultural Experiment Station. Mimeograph circular no. 1) in cooperation with U. S. Dept. of Agriculture, Agricultural Research Administration.

*Contains a report on the Matanuska valley farm area and on minor production areas of the Kenai Peninsula, Fairbanks and Anchorage. Covers dairy, potato, vegetable and poultry farming and discusses problems of land use, equipment, buildings, power, yields, etc.*

**Copoly seen:** CaMAI.

**24462. MOORE, CLARENCE A.** Farming in the Matanuska and Tanana valleys of Alaska. Palmer, Alaska, January 1952. 31 p. illus., tables, diags. (Alaska. University. Agricultural Experiment Station. Bulletin no. 14, in cooperation with the U. S. Dept. of Agriculture, Agricultural Research Administration)

*Contains an economic study of the 1950 farm operations in the two valleys with the aim "to compile reliable data on which plans for improving farm income can be based, thereby encouraging the development of a sound and permanent agricultural economy." Information includes: family size, tenure, farm size and land use, capital investment, crop yields, income and expenses, types of farming, etc.*

**Copoly seen:** DAI.

**24463. MOORE, EDWARD W.** Long-time biochemical oxygen demands at low temperatures. (Sewage works journal, 1941. v. 13, p. 561-77, tables, diags.)

*Contains a report on a series of studies*

on the biochemical oxygen demand of diluted sewage and river waters at low temperatures. This hitherto little-studied aspect is of considerable importance to sanitary engineering in subarctic and arctic areas. The account includes: experimental procedure; analytical data; experimental results; mathematical analysis; validity of formulation; the lag period; time required to exert a given biochemical oxygen demand in the nitrification stage; river water studies; summary and conclusions. Bibliography (11 items).

**Copoly seen:** DSG.

**24464. MOORE, EDWARD W.**, and others. Summary of additional data on Alaskan waters. National Research Council, June 1, 1950. 25 p. incl. tables. (Its: Committee on Sanitary Engineering and Environment.)

*"Re-analysis and examination of data compiled by the USGS suggested that the Alaskan waters are divided into southern and northern regions. The surface waters of northern and central Alaska are fairly uniform in terms of mineral analysis and apparently can be treated by standard coagulation, filtration, and chlorination. The surface waters of southern Alaska are similar to those of the eastern United States."—SIPRE.*

**Copoly seen:** CaMAI.

**24465. MOORE, EDWARD W.** A summary of available data on quality of arctic waters. National Research Council, 1949. 14 p. incl. tables. (Its: Committee on Sanitary Engineering and Environment, Division of Medical Science)

*"Data compiled by the USGS, U. S. Army, and AAF were examined to determine the characteristics of arctic waters which might have a bearing on their treatment and use as water supplies. It was found that the surface waters of the northwest Canadian Arctic, northern and central Alaska possess high pH values, which reduce the efficiency of chlorination at low temperatures. The silt in larger arctic rivers necessitates coagulation and filtration. Ground waters of the northwest Canadian Arctic were found unsatisfactory; those of northern Alaska were somewhat better but required special treatment. The surface and ground waters of eastern Canada and southern Alaska were adequate for water supply."—SIPRE.*

**Copoly seen:** CaMAI.

**24466. MOORE, J. C. G.** Preliminary map, Courageous Lake, Northwest Territories; map and descriptive notes. Ottawa, 1951. 8 l., fold. map in envelope. (Canada. Geological Survey. Paper 51-14)

Contains a geological map for Courageous Lake area (approx.  $64^{\circ}09' - 64^{\circ}19' N$ .  $111^{\circ}13' - 111^{\circ}30' W$ .), scale 1:18,000 or 1 inch:1500 feet, and descriptive text (mimeographed). The latter includes information on the general geology, structural and economic geology of the mapped area.

*Copy seen:* CaMAI.

**MOORE, J. C. G.**, see also Folinsbee, R. E., & J. C. G. Moore. Prelim. map Matthews Lake, NWT. 1950. No. 21864.

**24467. MOORE, J. D. D., and A. V. THOMAS.** Surface navigation in high latitudes. I. Special problems in polar regions. II. The use of compasses in high latitudes. (Institute of Navigation. Journal, Apr. 1951. v. 4, p. 126-48, diagrs.)

Part 1, by J. D. D. Moore discusses in some detail, (1) sight reduction (determination of position by astronomical observations), (2) refraction, (3) grids, projections and charts, (4) compasses (in brief), (5) general problems (dead reckoning, ice, fog, currents), (6) radar, and (7) radio fixing aids. Bibliography (12 items).

Part 2, by A. V. Thomas, analyzes high latitude effects on the magnetic compass (reduction in horizontal force, variation, and temperature) and the gyro-compass (damping factor, speed error). Discussion from the floor followed the reading of these papers at an ordinary meeting of the Institute of Navigation, Nov. 1950.

*Copy seen:* DLC.

**24468. MOORE, JOHN PERCY, 1869-**, and M. C. MEYER. Leeches (Hirudinea) from Alaskan and adjacent waters. (Wasmann journal of biology, 1951. v. 9, p. 11-77, incl. 11 plates)

Based on a collection made by the U. S. Fish and Wildlife Service king crab survey, 1940-41, the U. S. National Museum collection from Alaska and North Pacific, material collected by the *Albatross* and certain individuals, 1888-1949, and a few fresh-water species taken from Great Bear and Great Slave Lakes, 1944-45. Full descriptive and field notes are given, with taxonomic discussion of five marine species and ten fresh-water

species, including several new names and combinations. Bibliography (45 items).

*Copy seen:* DSI-M.

**MOORE, TERRIS**, see Korff, S. A. Survey Alaskan peaks. 1952. No. 23388.

**24469. MORAVITS, FERDINAND FERDINANDOVICH, 1827-1896.** Hymenoptera aculeata rossica nova. (Russkoe entomologicheskoe obshchestvo, St. Petersburg. Trudy (Horae), 1891-92, pub. 1892. t. 26, p. 132-81) *Title tr.:* New Russian species of Hymenoptera aculeata.

Contains Latin diagnoses of 31 new aculeate hymenopters from European and Asiatic Russia, with descriptive and critical notes in German; includes *Panurginus herzi* collected by Otto Herz near Vilyuysk, in Yakutia.

*Copy seen:* MH-Z.

**24470. MORDEN, IRENE.** Arctic nomads. (Natural history, Jan. 1952. v. 61, no. 1, p. 25-29, illus.)

Contains information on the number of Lapps and their distribution in the Scandinavian countries; the reindeer and its place in their life and economy; settled Lapps; life, tent, dress, etc. of the nomad Lapps; their origin.

*Copy seen:* DLC.

**24471. MORDEN, IRENE.** We liked the Eskimos. (Alaska sportsman, July 1951. v. 17, no. 7, p. 18-23, 35-36, illus.)

Describes (generally) Point Hope and the Alaska Native Service schools for Eskimos, and remarks on the Eskimo skills and temperament.

*Copy seen:* DI.

**MORDUKHOVICH, M. I.**, see Bagariĭtskii, B. A., & M. I. Mordukhovich. Spektry polĭarnykh siĭaniĭ. 1952. No. 20404.

**MORDUKHOVICH, M. I.**, see also Bagariĭtskii, V. I., & others. K voprosu ob infrakrasnom izluchenii. 1952. No. 20405.

**24472. MORDVILKO, ALEKSANDR KONSTANTINOVICH, 1867-1938.** Rasprostraneniĭ tĕl i ikh khozĭaev-rastenii k severu v vostochnoi Evrope. (Akademiiĭ nauk SSSR. Izvestiĭa, seriĭa 7. Otdeleniĭe matematicheskikh i estestvennykh nauk, 1935. no. 3, p. 419-24) *Title tr.:* Extension northward of plant life and their host plants in eastern Europe.

Contains a zoogeographic study of the steady northward extension of plant life

and the shrubly growth, their host plants in post-glacial time, following the receding glaciers. This northern penetration reaches Kola Peninsula (about 50 species in the Khibinogorsk region), also the lower Pechora basin and Northern Ural (about 95 species). Summary in German. **Copy seen:** DLC; MH.

**24473. MORDVILKO, ALEKSANDR KONSTANTINOVICH.** *Th Ĭakutii. Nauchnye rezul'taty Ĭakutskoi ěks-peditsii Akademii nauk SSSR.* 1927 5. (Akademiiĭ nauk SSSR. Zoologičes-kil muzei. Ezhegodnik, 1931. t. 32, vyp. 2, p. 289-91) **Title tr.:** Plant lice of Yakutia. Scientific results of the Yakut Expedition of the Academy of Sciences, U.S.S.R. 1927.

Contains a systematic list of nine plant lice (Aphididae) and host plants collected in the valley of lower Lena by A. M. Popov, a member of the Yakut Expedition of the Academy of Sciences, with Russian descriptions of *Glyphina jacutensis* and *Aphis popovi* n. spp.

**Copy seen:** DLC; MH-Z.

**MORE, ROBERT H.,** see Entin, M. A., & others. Experimental & clinical studies 2, effect of cold on wound healing. 1948. No. 21676.

**24474. MORGAN, MURRAY C., 1916-** . Dixie radii. The saga of the C. S. S. *Shenandoah*. New York, Dutton, 1948. 336 p., illus., 8 plates, maps on lining papers.

Story of the secret transformation of steamship *Sea King* to a confederate man-of-war *Shenandoah*, the latter's subsequent round-the-world voyage during and after the U. S. Civil War, in the course of which it destroyed whalers in Bering Sea. Bibliography of manuscripts and published sources.

**Copy seen:** DLC.

**24475. MORICE, ADRIAN GABRIEL, 1859-1938.** The Carrier language (Déné family); a grammar and dictionary combined, by A. G. Morice . . . St. Gabriel Mödling near Vienna, Austria, "Anthropos"; Winnipeg, Manitoba, Can., The author, 1932. 2 v. (xxxv, 660; 690 p.), front. (port.) (added t. p.: . . . Anthropos; linguistische Bibliothek . . . t. ix-x)

A work of encyclopedic scope containing in v. 1: phonetics, non-verbal parts of speech, the verb morphologically considered, the verbal prefixes; in v. 2: the

verbal prefixes (cont.), the verb grammatically considered, syntax; texts, vocabulary. In the introduction (v. 1, xxxv p.) author gives an historical sketch of the Carrier Indians of the northern interior of British Columbia (52°30'-56° N.), an Athabaskan group among whom he worked as missionary since 1883, noting their contracting population numbers, deteriorating native culture.

**Copy seen:** DLC.

**24476. MORIN, G.** Médullo-surrénale et régulation thermique, 1. Action calorigène de l'adrénaline: démonstration; signification. (Revue canadienne de biologie, 1946. v. 5, no. 2, p. 211-34, 3 fig., 3 tables) **Title tr.:** The adrenal medulla and thermal regulation, 1. Caloric action of adrenalin: demonstration; significance.

Contains a study indicating that adrenalin injected into the hind leg muscle of amyelated, not narcotized dogs increases heat production; when the animals are placed in a temperature around thermal neutrality, the calorogenic action is the function of the given dose, but is not sufficient to overcome thermoregulatory mechanisms and is not accompanied by hyperthermia. The elevation of heat production, definitely around thermal neutrality, decreases in the cold zone. The significance of the findings in the warming-up thermogenesis is discussed. Bibliography (45 items). Summary in English.

**Copy seen:** DLC.

**24477. MORIN, G.** Médullo-surrénale et régulation thermique, 2. Action adrénalino-sécrétrice du froid. (Revue canadienne de biologie, 1946. v. 5, no. 4, p. 388-99, 2 fig., 2 tables) **Title tr.:** The adrenal medulla and thermal regulation, 2. Reaction of adrenal secretion to cold.

Contains an account of experiments with non-anesthetized dogs exposed to cold, with precautions taken to exclude emotional factors; evidence is offered that cold produces increased delivery of adrenalin by the adrenal medulla; the results are ascribed to a specific action of cold and confirm the hypothesis that the medulla plays a part in heat regulation. Bibliography (20 items). Summary in English.

**Copy seen:** DLC.

**24478. MORIN, G.** Médullo-surrénale et régulation thermique, 3. Thermogénèse de réchauffement en l'absence de sécrétion adrénalinique. (Revue cana-

dienne de biologie, 1947. v. 6, no. 5, p. 715-23, fig., 3 tables) **Title tr.:** The adrenal medulla, and thermal regulation, 3. Thermogenesis of warming up, in the absence of adrenal secretion.

*Contains a study on dogs in which adrenal secretion was either deprived of nervous regulation by enervation or abolished by removal of one adrenal, enervation and medulla curettage of the other. Heat production curves for ambient temperatures between 2° and 18° C., and heat production changes at temperatures not exceeding 16° C. were studied. No differences were observed between experimental and control animals. Bibliography (17 items). Summary in English. Copy seen: DLC.*

**24479. MORITZ, ALAN R., and J. R. WEISIGER.** Effects of cold air on the air passages and lungs; an experimental investigation. (Archives of internal medicine, April 1945. v. 75, p. 233-40, 7 fig., 2 tables)

*Contains an account of experiments with dogs made to breathe very cold air (-28° to -50° C.), for 20-133 minutes. Some disturbances and focal destruction of the epithelium in the upper trachea were observed but there was no injury in the lower trachea, bronchi or lungs; an explanation of the rapid warming of the inhaled air, as well as practical suggestions as applied to man, are offered. Copy seen: DLC.*

**24480. MOROZOV, A. I.** Gelfery na Kamchatke. (Priroda, Aug. 1951. v. 40, no. 8, p. 34-35) **Title tr.:** Geysers on the Kamchatka Peninsula.

*Contains a description of a group of 22 active geysers discovered in 1941 by T. I. Ustinova in the region of Kronotskiy Bay, on the eastern coast of the Kamchatka Peninsula. Data are offered on the geological structure of the valley on the southwestern slope of the volcano Kikhpinyeh where the 22 active and many old extinct geysers are located, as well as the author's observations on the activity of these geysers, intervals between and heights (12-40 m.) of the eruptions.*

*Copy seen: DLC; MH.*

**MOROZOV, A. I.,** see also Chumakov, A. A., & others. Vezuvian iz zap. Kelv. 1948. No. 21220.

**24481. MOROZOV, A. V., and others.** O rasovom i vozrastnom sostave murmanskoj sel'di. (Karelo-Murmanskiy krai,

1934. v. 12, no. 1-2, p. 67-70, illus.) **Title tr.:** On the racial and age composition of the Murman herring. *Other authors:* Z. B. Goncharova and N. A. Evtukhov.

*Contains author's distinction (based on several sources) of two kinds of herring in the Motovskiy and Kola Bay region, termed: "small" and "large." Age and size distribution of the two varieties is given for several areas and years.*

*Copy seen: DLC.*

**24482. MOROZOV, GEORGIY FEDO. ROVICH, 1867-1920.** Uchenie o lese. Izdanie 7-e, pod redaktsiei V. G. Nesterova. Moskva-Leningrad, Goslesbumizdat, 1949. 455 p., port., illus. **Title tr.:** Forest science. 7th edition, under editorship of V. G. Nesterov.

*First published in 1920, this work was developed from lecture notes originally prepared by the author in 1902-03. A copy of the third edition revised by V. V. Matreninskii published in 1926 (368 p.) is in DLC.*

*Contains brief biographical note on the author and his work; chapters on Morozov's theories about the forest and their significance; introduction to the biology of forest-species theory on the forestal properties of timber species; the biology of the forest stands, theory of the forestry, characteristics of stands; biology of stand types, comparative evaluation of factors in forest formation, the dynamics and systematics of the forest. The monograph includes an account of forest species, some of them extending into the arctic region (p. 164-87); changing the stand of such species (p. 318-69); the effects of temperature (p. 145-49); geographical factors (p. 72-82; 384-90). Bibliography (over 200 items).*

*Copy seen: DLC.*

**24483. MORRIS, IDA G.** Arctic trap line. (Alaska sportsman, Dec. 1950. v. 16, no. 12, p. 6-9, 25-26, illus.)

*Informal account of the experiences of an eighteen-year old Eskimo girl traveling with her father by dog sledge to trap in the Kotzebue region. Gives some insight into the life of North Alaska Eskimos in the 20th century.*

*Copy seen: DI.*

**24484. MORRIS, ROBERT HAMILTON, 1921-** Heavy mineral analysis of sedimentary rocks of Northern Alaska. [Washington] 1952. 3 p. l., 68 l. incl. tables, 6 fold. plates in pocket (diags.).

(U. S. Geological Survey. Reports; open file series, no. 143) Typescript.

Delimits eight heavy mineral zones in Mesozoic and Quaternary sediments of Northern Alaska. Material from test walls and core samples in the U. S. Naval Petroleum Reserve no. 4, was examined. The "origin and genesis of the various heavy minerals and heavy mineral suites" are discussed in relation to geologic history.

**Copy seen:** DGS.

**MORRIS, WILLIAM A.**, see Cameron, A. W., & W. A. Morris. Mammals Lake Mistassini & Albanel. 1951. No. 21087.

**MORRISON, PETER R.**, see Strecker, R. L., & others. Notes mammals Alaska. 1952. No. 26500.

**MORRISON, PETER R.**, see also Strecker, R. L., & P. R. Morrison. Observations lemmings Barter I. 1952. No. 26501.

**24485. MOSHER, ELIZABETH.** Are Alaska's children being neglected? (Alaska's health, Feb. 1949. v. 7, no. 2, p. 1-2, 7)

Analysis of needs in child welfare work, and lacks currently due to inadequate funds; note on the excellent juvenile code enacted in 1943 and amended in 1945; remarks on local community interest in the problem.

**Copy seen:** DLC.

**24486. MOSKVA. VESOŪZNYĖ NA-UCHNO-ISSLEDOVATEĖLSKIĖ INSTITUT MORSKOGO RYBNOGO KHOZĖYSTVA I OKEANOGRAFIĖ.** Promyslovye ryby SSSR. Moskva, Pishchepromizdat, 1949. ix p., 230 col. plates. Opisanie ryb (tekst k atlasu tsvetnykh risunkov ryb). 787 p., illus., 10 plates.

**Titles tr.:** The commercial fishes of the U.S.S.R. [Atlas. Description of the fishes (text for the atlas of colored illustrations of the fishes).

Atlas contains 230 plates, illustrating fishes, arranged in taxonomic order and reproduced in natural colors and morphological details. The illustrations were painted by 10 artists under the art editorship of N. N. Kondakov and supervision of biologists and ichthyologists. Whenever possible the fish are represented in natural size.

The text volume is a monograph of encyclopedic character and proportions, and is arranged in taxonomic order. Each species is illustrated with a black and

white pen-sketch, usually with additional drawings of mouth-parts, gills, scales, eggs, etc. Ten color plates depict the economically more important forms. The descriptive section on each species is preceded by a list of local Russian names, the names in the languages of Soviet minorities, neighboring and foreign countries. The description itself is arranged under three headings: general information, biology, fishing industry. General information contains data on morphology, local or regional variations and geographical distribution. The sections on biology deal with the habitat (river, sea, brook, etc.); spawning periods and conditions; number of eggs, etc.; growth of young in size and weight; growth in general, often classified in relation to age and locality; food and food habits; competitors and enemies; migration. The sections on the industry offer data on the economic value of the species; fishing methods; seasons, etc., use of fish (food, oil extraction, etc.).

**Appendix** contains illustrated technical glossary, index of names occurring in Russian and those in Latin transcription. Bibliography (56 items).

**Copy seen:** DLC.

**24487. MOSKVA. VESOŪZNYĖ NA-UCHNO-ISSLEDOVATEĖLSKIĖ INSTITUT MORSKOGO RYBNOGO KHOZĖYSTVA I OKEANOGRAFIĖ.** Tablitsy prilivov vody AziatskoĖ chasti SSSR i severnoĖ chasti Tikhogo okeana. Chast' 1, prilivy v osnovnykh portakh na 1948 g. (Vremia i vysota polnykh i malykh vod). Leningrad, Gidrometeorologicheskoe izd-vo, 1947. 131 p. **Title tr.:** Tables of high tides of the Asiatic part of U.S.S.R. and the northern part of the Pacific Ocean. Part 1, high tides in the main ports, for 1948. (Time and height of high and low water.)

Includes points on the Sea of Okhotsk (p. 25-44); North Pacific: Petropavlovsk na Kamchatke (p. 50-54); Bering Sea: Gavan' Sibir' (p. 55-59); Nordvik Bay (p. 60-61).

**Copy seen:** DLC.

**MOSS, A. E.**, see Retty, J. A., & A. E. Moss. Iron-ore deposits Quebec & Labrador (abstract). 1951. No. 25468.

**24488. MOSS, EDWARD L.** Preliminary notice on the surface-fauna of the arctic seas, as observed in the recent Arctic Expedition. (Linnean Society, London. Journal; zoology, 1879. v. 14, p. 122-26).

Narrative account of invertebrate forms captured or seen, from Melville Bay northward to the winter quarters of Nares' British Arctic Expedition, 1875-76, at 82°25' N. 62° W. on the Ellesmere coast of Robeson Channel.

*Copy seen:* DLC.

**24489. MOTORSHIP, New York.** Super ferry in Island service. (Motor-ship, Sept. 1948. v. 33, p. 38-41, illus.)

Description of the 372-ft. *Abegweit* "largest ice-breaking ferry in the world", noting engines, bow construction, navigation equipment, etc. The ship built for year-round service across Northumberland Strait to Prince Edward Island [Canada] is "designed to overcome resistance of ice in three ways: with her bulk which can be moved at a speed of almost 16 knots and her cutaway bow which has been designed to part ice packs; secondly, her trimming and heeling tanks will enable her to be rocked laterally and longitudinally against the threat of becoming ice-locked; finally, the bow propellers will suck water from beneath the ice or push water under the ice directly in front of the ship's bows. The weight and shape of the bows will then smash ice which has been robbed of under-support or has been lifted instead of ice that is firmly supported by the water underneath it."

*Copy seen:* DLC.

**24490. MOTT, PETER G.** Oxford University Greenland Expedition, 1936. (Oxford University Exploration Club. Annual report 1935-37, p. 36-43)

Brief report by the leader of a nine-man party of surveyors and biologists to Søndre Strømfjord West Greenland. Notes on mapping, transport, equipment, food, costs, etc. Full report *Arctic Bibliography*, No. 11804.

*Copy seen:* CaMAI.

**24491. MOULD, WARD L.** Corneal opacities in the Alaskan Eskimo. (Archives of ophthalmology, 1940. v. 24, p. 972-74)

Contains report on a study of 800 natives (Eskimos and Eskimo-white persons) made in 1938 in northwestern Alaska. Bilateral opacities of the cornea, covering extensive portions, were found to be relatively common among the natives. Epiblepharon, a "fold of skin horizontal to the margin of the lower lid" is also common and in some cases turns the cilia of the lower lid backward against the eye

ball. Further study will be required to verify whether a connection between the two facts exists. Bibliographical footnotes.

*Copy seen:* DSG.

**MT. WASHINGTON OBSERVATORY, INC.,** see Clark, V. F. Icing nomenclature. 1948. No. 21233.

**24492. MOWAT, FARLEY M., 1920?-. People of the Deer.** Boston, Little, Brown and Co., 1952. viii, 344 p. illus., map on lining papers.

Narrative of the author's sojourn in the Windy River region of the Barren Grounds west of Hudson Bay in the spring-summer months of 1947 and 1948, living among the Ihalmiut, he states, a rapidly dwindling group of Caribou Eskimos. Includes descriptions of caribou migrations, information on their fawning grounds in the North and the wintering grounds below Nueltin Lake, author's travel on the Kazan River and adjacent waters, southward to Reindeer Lake and finally eastward by Thlewiazza River to Hudson Bay. Throughout are an amateur observer's detailed accounts and sympathetic interpretation of deer-hunting Eskimos' way of life, character, traditions and history; study of an old shaman; description of the complex of beliefs-fears-and illness as experienced by two of the author's Eskimo companions; notes on the diminishing caribou, the decimation (he claims) of the Ihalmiut by starvation, tuberculosis, and the recent poliomyelitis epidemic; denunciation of the white man's (fur trader, and missionary) effect on Eskimo life and of government's ineffectiveness in stabilizing Eskimo economy.

*Illustrated* with many pen sketches, mainly of individual Eskimos, by Samuel Bryant, and author's sketch map showing waterways (with Eskimo names), caribou routes, etc., in the Ihalmiut country. Reviewed by A. E. Porsild in *Beaver*, June 1952. Outfit 283, p. 47-49.

*Copy seen:* DLC.

**MOWAT, FARLEY M., 1920?-. see also Polar record.** Biological work Keewatin. 1950. No. 25134.

**24493. MOWAT, HERBERT A.** Curved, superelevated bridge on the Alaska Highway; unique structure over the Kiskatinaw River. (Roads and bridges, Sept. 1944. v. 82, no. 9, p. 53-55, 99-100, 102, illus.)

Detailed account of this bridge and its

construction in the British Columbia section of the Alaska Highway.

**Copy seen:** DLC.

**24494. MOXHAM, ROBERT MORGAN, 1919-** . Pumice deposits in the Alaska Peninsula-Cook Inlet region, Alaska. 1952. 2 p. l., 21 p., 7 mounted photos, 4 maps (3 fold.) (U. S. Geological Survey. Mineral deposits of Alaska; short preliminary reports) Mimeographed.

**Contains** a compilation of existing information from many sources pertaining to the occurrence, general geologic relations, chemical composition, and ready availability for economic exploitation, of pumice in the regions of Katmai National Monument, Augustine Island, and Veniaminof - Aniakhak, Alaska.

**Copy seen:** DGS.

**MOXHAM, ROBERT MORGAN, 1919-** , see also Wedow, H., & others. Interim report uranium possibilities. 1951. No. 27298.

**24495. MOZGOVOÏ, A. A.** Askaridaty mlekoopitaushchikh SSSR (Anisakoidea). (Akademiia nauk SSSR. Gel'mintologicheskaya laboratoriya. Trudy, 1951. t. 5, p. 14-22, illus.) **Title tr.:** Ascarids of the mammals of the U.S.S.R. (Anisakoidea).

**Contains** a list of 11 species of ascarids (one described as new), parasitic mostly on cetaceans (whales, belugas, seals, dolphins, etc.) and on a few domestic and wild mammals. Includes four species of the genus *Anisakis*, native to Bering and Okhotsk Seas, *Contracaecum osculatum* (hosts: *Phoca hispida*, *P. groenlandica* and *Erignathus barbatus*) occurring in Novaya Zemlya, Franz Josef Land, Kara and Laptev Sea, and *Turanova desciptiens* found in Chukchi and Bering Seas.

**Copy seen:** MH-Z.

**24496. MOZGOVOÏ, A. A.** K izucheniui anizakid kitoobraznykh. (Akademiia nauk SSSR. Gel'mintologicheskaya laboratoriya. Trudy, 1949. t. 2, p. 26-40, illus.) **Title tr.:** To the knowledge of *Anisakis* species of cetaceans.

**Contains** a study of seven species of roundworms (*Anisakis*) parasitic on intestine of cetaceans, including descriptions of *Anisakis skrjabini* n. sp. (host: *Physeter catodon*), *A. ivanizkii* n. sp. (host: the same), collected mostly in Komandorskiye Islands waters, Bering Sea, and in Okhotsk Sea.

**Copy seen:** DLC; MH-Z.

**24497. MOZGOVOÏ, A. A.** Novye anizakidy ptits. (Akademiia nauk SSSR. Gel'mintologicheskaya laboratoriya. Trudy, 1950. t. 3, p. 90-101) **Title tr.:** New parasitic worms of birds.

**Contains** descriptions in Russian of two new species of *Contracaecum* (Trematoda) and one of *Porrocaecum* (Nematoda) including *C. oschmarini* n. sp. from Kamchatka Peninsula, found in the intestine of *Uria lomvia*.

**Copy seen:** DLC; MH-Z.

**24498. MROCHKOV, K. A.** Izmenenie soderzaniia vitamina A pri posole i khraenii kitovoi pecheni. (Rybnoe khoziaistvo, Mar. 1952. v. 28, no. 3, p. 58, table) **Title tr.:** Changes in vitamin A content during salting and preserving of whale livers.

**Contains** a report of observations on blubber of blue whales and sperm whales preserved by dry-salting. Data include rate of the salting process, air temperatures during storage and loss of liquid. Loss of vitamin A varied between 15-35 per cent and was most pronounced at high temperature. **Copy seen:** DLC.

**24499. MUCHARDT, HARALD.** Bidrag till kannedomen om Sveriges Hemiptera och deras utbredning inom landet. (Entomologisk tidskrift, 1906. Årg. 27, häft. 1-2, p. 125-28) **Title tr.:** A contribution to the knowledge of Swedish Hemiptera and their distribution in Sweden.

**Contains** Critical notes on 16 Swedish hemipters, including *Pilophorus bifasciatus* and *Atractotomus magnicornis* native to Swedish Lapland.

**Copy seen:** DLC; MH-Z.

**24500. MÜLLER, E. A.** Der Einfluss lokaler Kältereize auf den Stoffwechsel. (Pflügers Archiv für die gesamte Physiologie, 1944. Bd. 248, p. 521-26, 3 fig.) **Title tr.:** The influence of local cold stimuli on the metabolism.

**Contains** an account of experiments on the effect of local application of cold on the metabolism during rest and work. No change in metabolism was observed, when averages of numerous experiments, and factors of error were considered. Bibliography (5 items).

**Copy seen:** DLC.

**MÜLLER, F. G.,** see Klaproth, J. H. Asia polyglotta 1831. No. 23285.

**MÜLLER, G. F.,** see Russow, F. Beitr. z. ethnograph. Sammlungen. 1900. No. 25723.

**24501. MÜLLER, HEINZ.** Das Bergland von Petsamo; eine morphologische Skizze. (Polarforschung, 1950, *pub.* 1951. Bd. 2, Jahrg. 20, p. 345-47) **Title tr.:** The mountainous country of Petsamo; a morphological sketch.

Sketch of the geologic history and geomorphology of the mountains east of Lake Inari, north to the Barents Sea.

**Copy seen:** DGS.

**MÜLLER, JOHANN BERNHARD,** *see* Novitskii, G. I. Kratkoe opisaniie o narodnii ostiat'skom v 1715. 1884. No. 24746.

**24502. MÜLLER, JOSEF.** Bestimmungstabelle der *Bembidion*-Arten Europas und des Mittelmeergebietes. (Koleopterologische Rundschau, 1918-19, *pub.* 1918. Bd. 7, no. 1-2, p. 26-117) **Title tr.:** Table for the determination of *Bembidion* species of Europe and the Mediterranean region.

Contains a discussion of the genus *Bembidion*, a morphological sketch, and keys to the subgenera and species of these ground beetles, including at least six species native to northern Scandinavia, Finland and European Russia; distribution in Siberia is also mentioned.

**Copy seen:** MH-Z.

**24503. MÜLLER, JOSEF.** Bestimmungstabelle der *Dyschirius*-Arten Europas und der mir bekannten Arten aus dem übrigen palaearktischen Faunengebiet. (Koleopterologische Rundschau, 1922-23, *pub.* 1922. Bd. 10, no. 2-3, p. 33-120) **Title tr.:** Tables for the determination of European species of *Dyschirius* and some other species known to me from various palaearctic regions.

Contains tables for the determination and notes on 75 species of coleopterous genus *Dyschirius* from Europe and some other palaearctic regions, including a diagnosis of *D. helleni* n. sp. from Dudinka on the lower Yenisey River and critical notes on *D. impunctipennis* native to Lapland.

**Copy seen:** MH-Z.

**24504. MÜLLER, MARTIN, 1902-** Die Entdeckung des Franz-Josephs-Landes vor 75 Jahren und ihre Bedeutung für die weitere Erforschung der Arktis. (Polarforschung, 1948, *pub.* 1950. Bd. 2, Jahrg. 18, p. 13-15, i. e. p. 209-211) **Title tr.:** The discovery of Franz Josef Land seventy-five years ago and its significance for further exploration of the Arctic.

Sketch of the preliminary excursions, Julius Payer and the Second German Polar Expedition, 1869-70, his organization of the Austrian expeditions, the discovery of Franz Josef Land and Payer's exploration of it in 1872-74; résumé of important additions to knowledge of the Barents Sea current system and ice conditions, which encouraged the subsequent exploration of the archipelago by many others; the establishment there of a meteorological station by the U.S.S.R. in 1932, and the use of Rudolf Island as a base for transarctic flights and for the Russian North Pole expedition of 1937-38.

**Copy seen:** DGS.

**24505. MÜLLER, MARTIN, 1902-** James Clark Ross zu seinem 150. Geburtstag am 15. April 1950. (Polarforschung, 1950, *pub.* 1951. Bd. 2, Jahrg. 20, p. 360-62) **Title tr.:** James Clark Ross on the 150th anniversary of his birth, Apr. 15, 1950.

Review of this English explorer's life and work including his expeditions in the Canadian Arctic, discovering the magnetic pole during his uncle, Sir John Ross' expedition 1829-33, and participating later in the search for Franklin.

**Copy seen:** DGS.

**24506. MÜLLER, MARTIN, 1902-** Zur Erinnerung an die erste Überfliegung des Nordpols durch Richard Evelyn Byrd am 9. Mai 1926. (Naturwissenschaftliche Rundschau, Okt. 1951. Jahrg. 4, p. 454-55) **Title tr.:** In memory of the first flight over the North Pole by R. E. Byrd, May 9, 1926.

Brief historical review of early balloon flight plans and efforts, and subsequent well-known airplane flights in the polar regions.

**Copy seen:** DSI-M.

**24507. MÜNSTER, THOMAS GEORG, 1855-1938.** *Agonum aldanicum* Popp. and *A. consimile* Gyll. (Col., Car.). (Notulae entomologicae, 1934, v. 14, no. 3, p. 78-80) **Title tr.:** *Agonum aldanicum* Popp. and *A. consimile* Gyll. (Col. Car.)

Contains a comparative taxonomic study of two closely related ground beetles, *Agonum aldanicum*, described by B. Poppius from a specimen collected by him in Lena River valley (eastern Siberia) and later found in Russian and Finnish Lapland, and *A. consimile* known from Swedish Lapland and northern Norway.

**Copy seen:** DLC; MH-Z.

**24508. MÜNSTER, THOMAS GEORG, 1855-1938.** *Arpedium* (Col. Staphylinidae), a revision of the Norwegian species. (Norsk entomologisk tidsskrift, 1933. Bd. 3, hefte 4, p. 257-66, illus.)

Contains a table for the determination of 4 species and 4 varieties and forms of rove beetles of the genus *Arpedium*, occurring in Norway, a diagnosis of *A. norvegicus* n. sp. with 2 varieties, *v. kittilense* and *v. saalasi*, native to arctic Eurasia, *A. brachypterum* with var. *gyllenhalsi* found in northern Norway and also known from Bear Island, Kola Peninsula and Siberia, and *A. puncticolle* described from the arctic Siberia and occurring in Finnmark, Norway and Kola Peninsula.

**Copy seen:** DA; MH-Z.

**24509. MÜNSTER, THOMAS GEORG, 1855-1938.** *Bembidiini*, I. (Norsk entomologisk tidsskrift, 1932. Bd. 3, hefte 1-2, p. 80-82) **Title tr.:** Species of *Bembidion*.

Contains a table for the determination of 5 species and 2 varieties of coleopterous genus *Bembidion* and descriptive notes on them with data on distribution; includes *B. macropterum*, *B. nitidulum* and *B. graepi*, native to northern Norway. Only pt. I was published.

**Copy seen:** DA; MH-Z.

**24510. MÜNSTER, THOMAS GEORG, 1855-1938.** Bidrag til kjendskaben om slekten *Atheta* Thoms. (Col., Staph.) 1-2. (Norsk entomologisk tidsskrift, 1922, pub. 1923. Bd. 1, hefte 4, p. 206-208) **Title tr.:** A contribution to the knowledge of *Atheta* Thoms.

Contains Latin diagnoses of *Rhagocneme* n. sub-gen. og coleopterous genus *Atheta*, *A. (Rhagocneme) fractipes* n. sp. native to central and northern Norway (Tromsø, Alten), and *A. (Dimetrota) sparreschneideri* n. sp. found in Saltdalen, Vesteraalen and Sydvaranger. For continuation see the author's Bidrag om *Atheta*, 3-4, 1925.

**Copy seen:** DA; MH-Z.

**24511. MÜNSTER, THOMAS GEORG, 1855-1938.** Bidrag til kjendskaben om slekten *Atheta* Thoms. (Col., Staph.) 3-4. (Norsk entomologisk tidsskrift, 1924, pub. 1925. Bd. 2, hefte 1, p. 5-30) **Title tr.:** A contribution to the knowledge of the genus *Atheta* Thoms. (Col., Staph.) 3-4.

Contains a study of various types of microsculpture of the species of the genus *Atheta*, a table for the determination

of the subgenera (one new) and species and notes on their general and Scandinavian distribution; includes at least eleven species native to northern Fennoscandia and Kola Peninsula: This is a continuation of the item above. Summary in English. **Copy seen:** DA; H-Z.

**24512. MÜNSTER, THOMAS GEORG, 1855-1938.** Bidrag till kjendskaben om slekten *Atheta* Thoms. (Col., Staph.) 5-8. (Norsk entomologisk tidsskrift, 1932. Bd. 3, hefte 1-2, p. 5-16) **Title tr.:** A contribution to the knowledge of the genus *Atheta* Thoms. (Col., Staph.) 5-8.

Contains a comparative study of rove beetles, *Atheta procera* and *A. subglabra*, both native to northern Norway; a table for the determination of six species of the subgenus *Aloconta*, of which two are occurring in northern regions; a Latin diagnosis of *A. taxiceroides* n. sp. found in Målselv and Nordreisen; and critical notes on two other species from northern Norway. This paper is a continuation of the item above. Summary in English.

**Copy seen:** DA; MH-Z.

**24513. MÜNSTER, THOMAS GEORG, 1855-1938.** Bidrag til Norges koleopter-fauna. Revision av materialet for hr. Embrik Strands koleopterologiske arbeider. (Norsk entomologisk tidsskrift, 1921. Bd. 1, hefte 2, p. 87-100) **Title tr.:** A contribution to coleopterous fauna of Norway. A revision of material from coleopterological works of Mr. Embrik Strand.

Contains a critical revision of numerous species of beetles from eight works of E. Strand, dealing with coleopterous fauna of Norway, including many species native to the northern regions. The author points out numerous mistakes in determination of Norwegian species and strongly criticizes Strand's work.

**Copy seen:** DA; MH-Z.

**24514. MÜNSTER, THOMAS GEORG, 1855-1938.** *Cryptophagus lysholmi* n. sp., frå Målselvdalen. (Norsk entomologisk tidsskrift, 1932. Bd. 3, hefte 1-2, p. 79) **Title tr.:** *Cryptophagus lysholmi* n. sp. from Målselvdalen.

Contains a Latin diagnosis of a new beetle, *Cryptophagus lysholmi*, collected in Målselvdalen, northern Norway by Dr. B. Lysholm in July 1903.

**Copy seen:** MH-Z.

**24515. MÜNSTER, THOMAS GEORG, 1855-1938.** *Dyschirius Bonelli* (Col.) De

norske arter. (Norsk entomologisk tidsskrift, 1923. Bd. 1, hefte 5, p. 244-50) **Title tr.:** Norwegian species of *Dyschirius* Bonelli (Col.)

Contains a table for the determination of Norwegian species of ground beetles of the genus *Dyschirius* and a list of eleven species with brief descriptive notes and data on distribution. Includes Latin diagnoses of *D. septentrionum* n. sp. from Tromsø, Finnmark and Sydvaranger, and *D. norvegicus* n. sp., and *D. angustatus* native to Tromsø and Finnmark. Summary in French.

**Copy seen:** DA; MH-Z.

**24516. MÜNSTER, THOMAS GEORG, 1855-1938.** Finnmarksvidden. En høiarktisk fauna, *Bembidion hyperboreaorum* n. sp. (Col. Carabidae). (Norsk entomologisk tidsskrift, 1923. Bd. 1, hefte 5, p. 235-39) **Title tr.:** Finnmark study. An alpine-arctic fauna, *Bembidion hyperboreaorum* n. sp.

Contains an annotated list of 14 species of ground beetles (Carabidae) collected by the author during his trip through the mountains of Finnmark (Alten-Karasjok), including five relict species having wide arctic distribution in Europe and Asia (from Scandinavia to eastern Siberia). Latin diagnosis is given of *Bembidion (Plataphus) hyperboreaorum* n. sp. collected in Alten, Porsanger and Karasjok. Summary in French.

**Copy seen:** DA; MH-Z.

**24517. MÜNSTER, THOMAS GEORG, 1855-1938.** Gyrinidae (Col.) De norske arter. (Norsk entomologisk tidsskrift, 1924, pub. 1925. Bd. 2, hefte 1, p. 30-38) **Title tr.:** Norwegian species of Gyrinidae.

Contains an historical review of the interpretation of some European species of coleopterous genus *Gyrinus*, a table for the determination of eight Norwegian species and data on their Norwegian and general distribution; includes *G. minutus* and *G. distinctus* native to northern Norway. Summary in English.

**Copy seen:** DA; MH-Z.

**24518. MÜNSTER, THOMAS GEORG, 1855-1938.** Index Coleopterorum Norvegiae, 1. Fortegnelse over de i Norge hittil iaktatte arter av familierne Clambidae, Corylophidae, Trichopterygidae, Erotylidae, Phalacridae og Lathridiidae. Christiania, A. W. Brøgger, 1901. 43 p. (Norske videnskaps-akademi, Oslo. Forhandlinger, 1901, no. 1) **Title tr.:**

Index of Coleoptera of Norway, I. A list of species of the families Clambidae, Corylophidae, Trichopterygidae, Erotylidae, Phalacridae and Lathridiidae, previously observed in Norway.

Contains a systematic list of 148 species of beetles in six families, with localities and data on total distribution; includes at least 25 species native to northern provinces of Norway.

**Copy seen:** MH-Z.

**24519. MÜNSTER, THOMAS GEORG, 1855-1938.** Norske Ptinidae og Anobiidae. (Norsk entomologisk tidsskrift, 1933. Bd. 3, hefte 3, p. 155-62) **Title tr.:** Norwegian Ptinidae and Anobiidae.

Contains a table for the determination of the genera of coleopterous families Ptinidae and Anobiidae, another table for nine species of the genus *Ptinus* and critical notes and data on distribution of various species, including at least 4 species native to northern regions of Norway; apparently an unfinished work.

**Copy seen:** DA-MH-Z.

**24520. MÜNSTER, THOMAS GEORG, 1855-1938.** Northern *Olophrum* (Col. Staph.). (Norsk entomologisk tidsskrift, 1935. Bd. 4, hefte 1-2, p. 22-30, illus.; 1936, hefte 3, p. 97-102) **Title tr.:** Northern species of *Olophrum* (Col. Staph.).

Contains a critical study of six northern species of coleopterous genus *Olophrum* and some of their intermediate forms (varieties, aberrations, etc.) with data on their Scandinavian and general distribution. Some of these species, like *O. boreale* are widely distributed in northern Scandinavia, northern Europe and Asiatic Russia and Alaska.

**Copy seen:** DA; MH-Z.

**24521. MÜNSTER, THOMAS GEORG, 1855-1938.** Norwegian Chrysomelids. (Norsk entomologisk tidsskrift, 1935. Bd. 4, hefte 1-2, p. 1-17, illus.)

Contains a critical revision of Norwegian Chrysomelids of the genera *Phyllodecta*, *Phaedon* and *Haltica* with tables for the determination of the species, critical notes on 15 species and data on their habitat, host plants and Norwegian and general distribution (Europe and Asia). Includes at least four species native to northern Norway.

**Copy seen:** DA; MH-Z.

**24522. MÜNSTER, THOMAS GEORG, 1855-1938.** The Norwegian *Cryptypnus*

(Col. Elateridae). (Norsk entomologisk tidsskrift, 1935. Bd. 3, hefte 6, p. 362-69)

*Contains* a critical revision of Norwegian species of snapping beetles of the genus *Cryptynus*, split by the author into two genera (*C.* and *Hypnoidus*) with a table for the determination of eight species in two genera), critical notes on them and data on Norwegian and general distribution. Includes six species native to northern Scandinavia.

*Copy seen:* DA; MH-Z.

**24523. MÜNSTER, THOMAS GEORG, 1855-1938.** *Notiophilus* Dumeril (Coleoptera). De norske arter. (Norsk entomologisk tidsskrift, 1922. Bd. 1, hefte 3, p. 138-44) *Title tr.:* Norwegian species of *Notiophilus* Dumeril (Col.).

*Contains* a table for the determination of six Norwegian species of coleopterous genus *Notiophilus*, including critical notes and data on distribution of four species native to northern region of Norway, as well as description of *N. aquaticus* v. *spæthi* n. var. from Tromsø. Summary in English.

*Copy seen:* DA; MH-Z.

**24524. MÜNSTER, THOMAS GEORG, 1855-1938.** Nova etc. ex Norvegia. (Norsk entomologisk tidsskrift, 1923, pub. 1924. Bd. 1, hefte 6, p. 288-94, illus.) *Title tr.:* New etc. [Coleopters] from Norway.

*Contains* Latin diagnoses of three new species of beetles, including *Elaphrus tumidiceps* n. sp. from Lakselv in Porsanger, Finnmark, and *Anaspis s. str.* *norvegica* occurring in extreme southern and northern Norway (Karasjok), and critical notes on three other species (previously unrecorded in Norway) collected in northern regions.

*Copy seen:* DA; MH-Z.

**24525. MÜNSTER, THOMAS GEORG, 1855-1938.** Nye fund og findesteder B. Coleoptera. (Norsk entomologisk tidsskrift, 1923. Bd. 1, hefte 6, p. 257-74) *Title tr.:* New finds and new localities B. Coleoptera.

*Contains* an annotated list of about 175 species of beetles new to the fauna of Scandinavia, Norway or some regions of Norway, including some species native to northern provinces of Scandinavia.

*Copy seen:* DA; MH-Z.

**24526. MÜNSTER, THOMAS GEORG, 1855-1938.** Quediini (Coleoptera), de

norske arter. (Norsk entomologisk tidsskrift, 1922. Bd. 1, hefte 4, p. 183-204)

*Title tr.:* Norwegian species of Quediini (Coleoptera).

*Contains* a critical revision of Norwegian species of beetles of the group Quediini in the rove beetle family Stephylinidae, with a table for determination of the genera, subgenera and species of Fennoscandia, brief characteristics of the species and their distribution in Norway. Includes at least twelve species native to northern regions of Norway. Summary in German.

*Copy seen:* DA; MH-Z.

**24527. MÜNSTER, THOMAS GEORG, 1855-1938.** Some Norwegian *Phytonomus* (Col., Curc.). (Norsk entomologisk tidsskrift, 1935. Bd. 4, hefte 1-2, p. 17-21)

*Contains* a table for the determination of eleven species of coleopterous genus *Phytonomus* with brief data on their distribution in Norway and critical notes on *P. ornatus* and *P. pedestris* native to northern Norway.

*Copy seen:* DA; MH-Z.

**24528. MÜNSTER, THOMAS GEORG, 1855-1938.** Tillaeg og bemaerkninger til Norges koleopterfauna. (Norsk entomologisk tidsskrift, 1926, pub. 1927, Bd. 2, hefte 3, p. 158-68; 1927, pub. 1928, hefte 4, p. 169-200; 1928, pub. 1929, hefte 5, p. 262-98) *Title tr.:* Additions to and notes on Norwegian Coleoptera.

*Contains* a list of Norwegian beetles including species the distribution of which is essentially altered since its publication; 77 species and more noteworthy varieties new to the fauna of Norway (19 are new to Fennoscandia); and 28 species to be excluded from the Fennoscandian fauna. Many species are native to northern regions of Fennoscandia. For continuation see the author's *Tillaeg II-III*, 1930-35. Summary in English.

*Copy seen:* DA; MH-Z.

**24529. MÜNSTER, THOMAS GEORG, 1855-1938.** Tillaeg og bemaerkninger til Norges koleopterfauna, II-III. (Norsk entomologisk tidsskrift, 1930. Bd. 2, hefte 6, p. 353-57; (III) 1932, Bd. 3, hefte 1-2, p. 83-96; 1933, hefte 3, p. 163-64, hefte 4, p. 267-78; 1935, hefte 6, p. 370-79) *Title tr.:* Additions to and notes on Norwegian Coleoptera, II-III.

*Contains* a list of Norwegian beetles,

the distribution of which is essentially altered since the time of their description, including 60 species and more noteworthy varieties not hitherto found in Norway (14 are also new to Fennoscandia and 8 are new varieties and races); and 82 species to be excluded from the fauna of Norway. Many species in these works are native to northern regions of Norway. This paper is a continuation of the author's *Tillaeg*, 1927-29, q. v.

**Copy seen:** DA; MH-Z.

**24530. MÜNSTER, THOMAS GEORG. 1855-1938.** *Tillaeg til Norges coleopterfauna.* (Norsk entomologisk tidsskrift, 1922. Bd. 1, hefte 3, p. 118-35) **Title tr.:** Additions to coleopterous fauna of Norway.

*Contains* a list of 172 species of beetles hitherto unknown in Norway, including a few native to northern regions of the country. Summary in English.

**Copy seen:** DA; MH-Z.

**24531. MÜNSTER, THOMAS GEORG, 1855-1938.** *To nye Staphylinider (Coleopt.) fra det nordligste Norge.* (Norsk entomologisk tidsskrift, 1920, pub. 1921. Bd. 1, hefte 1, p. 55-58) **Title tr.:** Two new Staphylinidae (Coleopt.) from northernmost Norway.

*Contains* Latin diagnoses of two new species of rove beetles (Staphylinidae): *Philonthus finmarkicus* n. sp. native to Alten and Sydvaranger, Norway, Torne Lappmark, Swedish Lapland, and Kola Peninsula; and *Quedius (Sauridus) arcticus* n. sp. from northern Norway, Torne Lappmark, Sweden, and Kola Peninsula, also comparison with some related species.

**Copy seen:** DA; MH-Z.

**24532. MÜNSTER, THOMAS GEORG, 1855-1938.** *Verdens nordligste Cicindela.* (Norsk entomologisk tidsskrift, 1923, pub. 1924. Bd. 1, hefte 6, p. 283-288) **Title tr.:** Northernmost *Cicindela*.

*Contains* some notes on ecology and geographic distribution of three species of tiger beetles, *Cicindela campestris* found in Tromsø (69°39' N.), *C. silvatica* encountered near Svanvik in Sydvaranger (69°28' N.) and *C. maritima* spreading to Elvestrand, near Bossekop in Alten (69°58' N.). The latter species is described from arctic Siberia and as occurring also in Finnmark, Norway, and Kola Peninsula.

**Copy seen:** DA; MH-Z.

**MÜNSTER, THOMAS GEORG, 1855-1938,** *see also* Natvig, L. R. T. G. Münster. 1938. No. 24589.

**24533. MUESEBECK, CARL FRED. ERICK WILLIAM, 1894-** *and others.* *Hymenoptera of America north of Mexico;* synoptic catalog. Prepared cooperatively by specialists on the various groups of *Hymenoptera* under the direction of C. F. W. Muesebeck, Karl V. Krombein and Henry K. Townes. Washington, U. S. Govt. Print. Off., 1951. 1420 p., fold map. (U. S. Dept. of Agriculture. Agriculture monograph no. 2)

Basic reference work "which includes the saw flies, wood wasps, parasites of other insects that are used in biological control undertakings, bees, wasps, ants, gall wasps and related forms" of Canada, Alaska and Greenland. The catalog is followed by indexes to (1) new names, (2) superspecific names and (3) trivial names.

**Copy seen:** DLC.

**24534. MUIRHEAD, E. E., and others.** *Experimental freezing shock; changes in body fluids and tissues.* (Archives of surgery, Dec. 1942. v. 45, p. 863-89, 15 fig., 3 tables) *Other authors:* C. T. Ashworth, L. A. Kregel, and J. M. Hill.

*Contains* a study on dogs whose entire hind limb was deeply frozen under anesthesia, and then thawed at room temperature. The greatest loss of plasma occurred 2.5 hours following the freeze; no generalized drainage to the visceral capillaries, nor interstitial and cellular changes were observed at this period, the only pathologic change being in the frozen limb and in the adrenal cortex. After four hours, loss of plasma decreased greatly, but generalized capillario-venous dilatation, and capillary hemorrhages, pulmonary edema, leucocytosis and cellular changes of the parenchymatous organs became evident. Passage of water into body cells was also indicated. Bibliography (42 items).

**Copy seen:** DLC.

**24535. THE MUKLUK TELEGRAPH,** "the Arctic's greatest newspaper." Kotzebue, Alaska, 1950?- . Published twice monthly by the Aero Trading and News Service, Kotzebue.

12-16 p. each issue, containing "news about town," "news of the villages," (mainly the doings of local native and white residents), advertisements (mainly local services), etc. **File seen:** CaMAL.

**MULLER, OTHO FRIDERIC.** *Zoologicae danicae prodromus* (Copenhagen, 1776),

see McAtee, W. L. Birds recorded Greenland 1776. 1950. No. 24065.

**MULLER, SIMEON WILLIAM, 1900-**, see U. S. Army Air Forces. Permafrost; studies in connection with engineering projects . . . 1; instructions for measuring ground temperatures. 1944. No. 26893.

**MULLIGAN, J. J.**, see Rutledge, F. A., & J. J. Mulligan. Investigation Millett copper deposit Alaska. 1952. No. 25733.

**24536. MULTAMÄKI, S. E.** Kuusen taimien palettuminen ja sen vaikutus ojitetutujen soiden metsittymiseen. Helsinki, 1942. 353 p., plates, illus., tables, diags. (Acta forestalia fennica, 51:1) **Title tr.:** The freezing of spruce seedlings and its influence on the natural afforestation of drained bogs.

The main area of study extended from 60° to 63° N. lat. "The investigations were concentrated upon the reproduction of spruce on wet sand, upon the freezing of spruce seedlings, the bursting of annual shoots in different individuals and on various sites." Includes data on microclimatic investigations of drained bogs; section on the freezing of spruce in other parts of the country (p. 213-27). Includes material on areas extending to 70° N. lat. Bibliography (300 items). Summary in German, p. 321-52.

**Copy seen:** DLC.

**24537. MULTAMÄKI, S. E.** Tilastoa Pohjois-Suomen metsä- ja suotyypeistä. Helsinki, 1921. 26 p., fold. map, fold. table, diagr. (Acta forestalia fennica, 21) **Title tr.:** Statistics on the forest and swamp types in northern Finland.

Contains data on 14 forest types (in six classes) and six swamp types occurring in the Inari, Kemi, and Lapland regions. Bibliography (20 items). Summary in German.

**Copy seen:** DLC.

**24538. MUNROE, EUGENE C.** Field notes on the butterflies of Knob Lake, northern Quebec. (Canada. Dept. of Agriculture. Div. of Entomology Science Service. Contribution no. 2788, pub. in Lepidopterists' news. 1951. v. 5, no. 1-2, p. 7-9)

Preliminary report on author's work in 1948 with the Northern Insect Survey, sponsored by the Division of Entomology and Defence Research Board of Canada. Description of the geography and ecology of the region in interior Labrador Peninsula, about 55° N. 67° W. Its butterfly fauna is characterized as poor, only ten

species observed or collected by the author, who gives brief note on their first appearance and flight season and detailed field notes on each species, as determined by T. N. Freeman. **Copy seen:** DLC.

**24539. MUNTSCHE, O.** Hygienische Erfahrungen bei militärischen Unternehmungen im kalten Klima. (In: S. Handloser, editor. Wehrhygiene, Berlin 1944, p. 376-78) **Title tr.:** Hygiene experiences in military campaigns in cold climate.

Contains mention of winter climate as cause of military debacles; list of diseases caused by wintery conditions; recommendations (in relation to preventive measures) in housing, bathing, water supply, laundry, clothing, personal cleanliness, food and drink. Precautions in train transports and transport of wounded, etc.

**Copy seen:** DLC.

**24540. MURASHOV, D. F.** Geneticheskie tipy zhelezorudnykh mestorozhdenii Kol'skogo poluostrova i Karelo-Finskoi SSR. (Vserossiiskoe mineralogicheskoe obshchestvo. Zapiski, 1946. Ser. 2, ch. 75, p. 135-44, map) **Title tr.:** Genetic types of the iron ore deposits on the Kola Peninsula and in Karelia-Finnish SSR.

The iron ores include titaniferous magnetite deposits of magmatic origin, metasomatic ores, sedimentary deposits (mainly of lacustrine origin), and ferruginous quartzites and schists.—Geological Society of America. *Bibliography and index of geology.* Summary in English.

**Copy seen:** DLC.

**24541. MURASHOV, D. F.** Kol'skii poluostrov, kak syr'evaa baza. (Karelo-Murmanskii krai, 1933. v. 11, no. 5-6, p. 54-55, illus.) **Title tr.:** The Kola Peninsula as a base of raw materials.

Contains a popular presentation of the main facts about the mineral resources of the peninsula. **Copy seen:** DLC.

**24542. MURBECK, SVANTE SAMUEL, 1859-1946.** Neue oder wenig bekannte Hybriden in dem Botanischen Garten Bergielund (Hortus Bergianus). Stockholm, I. Marcus' boktr., 1894. 21 p., plate 1. (Acta horti Bergiani, 1892-97. Bd. 2, no. 5) **Title tr.:** New or little known hybrids in the Bergielund Botanical Garden.

Contains descriptions and illustrations of nine hybrids (six new) growing in the Garden, with critical notes on the parent plants; includes *Papaver alpinum* L. ×

*nudicale* L., the latter a common plant in arctic regions of Scandinavia, Siberia, Greenland and North America, and critical notes on related arctic species of *Papaver*. **Copy seen:** DLC; MH-A.

**24543. MURBECK, SVANTE SAMUEL, 1859-1946.** Studien über Gentianen aus der Gruppe *Endotricha* Froel. Stockholm, I. Marcus' boktr., 1892. 28 p., map. (Acta horti Bergiani, 1892-97. Bd. 2, no. 3) **Title tr.:** Studies of *Gentiana* species of the group *Endotricha* Froel.

Contains a study of 12 species, varieties and hybrids of the genus *Gentiana* of the group *Endotricha*, with Latin descriptions, synonymy, critical notes and data on distribution; includes at least three species native to northern Scandinavia and Russia. **Copy seen:** DLC; MH-A.

**24544. MURDOCH, JOHN, 1852-1925.** Fish and fishing at Point Barrow, arctic Alaska. (American Fisheries Society. Transactions, 1884. v. 13, p. 111-15)

Describes equipment, methods and customs of North Alaska Eskimos' fishing for whitefish, burbot, and cod in winter, and for whitefish, salmon, trout, and smelt in summer. **Copy seen:** DI.

**MURDOCH, JOHN, 1852-1925, see also** Boas, F. Game of cat's cradle. 1888-89. No. 20738.

**24545. MURIE, OLAUS JOHAN, 1889-** . The great brown bear. (Frontiers, Apr. 1951. v. 15, no. 4, p. 114-16, illus.)

Contains an article on the Alaska brown bear, its similarity (often complete) to the grizzly bear and traits distinguishing it from the cinnamon bear; its origin, food during various seasons, mating fights, cubs, etc. **Copy seen:** CaMAI.

**24546. MURIE, OLAUS JOHAN, 1889-** Planning for Alaska's big game. (In: Alaskan Science Conference . . . 1950. Selected papers, 1952. p. 258-67)

Contains information on the decline of big game; its cause, human and intrinsic; habitat requirements of big game; conservation and introduction of new species, etc. The author recommends program of wildlife management based on study of land use possibilities and coordinated with agricultural and other needs. Bibliography (9 items).

**Copy seen:** DAI; DLC.

**24547. MURPHY, GRACE E. BARSTOW.** Arctic summer. (Nature mag-

azine, Aug.-Sept. 1951. v. 44, p. 353-56, 386, illus.) Popular article on scenery and people in Swedish and Norwegian Lapland visited by the author in the summer of 1950.

**Copy seen:** DLC; DSI-M.

**24548. MURPHY, HUGH L.** Frost-bite: treatment by passive vascular exercise; report of cases. (American journal of surgery, 1937. n. s. v. 36, p. 370-75, 7 fig.)

Contains an account of treating frost-bite by "alternate negative and positive environmental pressure within a glass boot, into which the affected extremity is placed"; best results are obtained in early cases; restoration of circulatory balance, and epithelialization are quick. Bibliography (11 items).

**Copy seen:** DLC.

**24549. MURZAEV, P. M.** Mestorozhdeniia pirrotina ūzhnykh sklonov Khibinskogo massiva. (Leningrad. Tsentral'nyi nauchno-issledovatel'skii geologorazvedochnyi institut. Materialy; poleznye iskopaemye. Sbornik, 1935. no. 2, p. 83-93, 2 plates, fold. map, fold. diag.) **Title tr.:** Pyrrhotite deposits on the southern slopes of the Khibiny massif.

"Small accumulations of pyrrhotite occur in hornstones bordering the Khibina nepheline massif, Kola Peninsula. Their genesis is considered to be related to thermal pneumatolytic processes associated with emanations from the nepheline massif, rather than to contact metamorphic processes associated with intrusion of basic rocks which occur as sills within the metamorphosed sediments."—Geological Society of America, *Bibliography and index of geology*. Summary in English. **Copy seen:** DGS.

**24550. MUSACCHIA, XAVIER J.** The effect of elevated temperatures upon the tissue chemistry of the arctic sculpin, *Myoxocephalus quadricornis*. A terminal research report presented to the Board of Governors of the Arctic Institute of North America. AINA Project no. 16 (ONR-32) Saint Louis, 1951. 33 p., tables. Mimeographed.

Contains report of study made at the Arctic Research Institute at Point Barrow, Northern Alaska, aided by the Arctic Institute of North America and U. S. Office of Naval Research. Phospholipid, total cholesterol, cholesterol esters, total fatty acids and total lipids of the liver and skeletal muscle were determined both

in controls and in fish kept at a water temperature of 20° C. There was a marked increase in total cholesterol and cholesterol esters of the liver of the animals kept at 20°, suggesting that with changed temperature a major part of fat turnover in the liver is accomplished by the cholesterol esters. The skeletal muscle showed a decrease in phospholipid at 20° C., which was correlated to a decrease in spontaneous activity. Bibliography (27 items). **Copy seen:** DAL.

**24551. MUSACCHIA, XAVIER J., and CHARLES G. WILBER.** Studies on the biochemistry of *Citellus*. (Federation proceedings, Mar. 1951. v. 10, no. 1, pt. 1, [1] p.)

Contains note on *Citellus barrowensis*, an arctic squirrel, as part of work in progress on the biochemical characterization of arctic mammals. Blood sugar values are given for well-fed, starving and hibernating animals. Blood nitrogen was considerably higher than in man and other mammals; the amount of excreted nitrogen was not correspondingly high.

**Copy seen:** CaMAI.

**24552. MUSACCHIA, XAVIER J., and G. WILBER.** Studies on the biochemistry of the arctic ground squirrel. (Journal of mammalogy, Aug. 1952. v. 33, p. 356-62, tables)

Contains a study on various chemical constituents of *Citellus parryi barrowensis*, under different environmental conditions, in order to ascertain the effects of hibernation and of fasting. Blood and urinary nitrogen; blood sugar; lipids of the blood, liver and kidney were determined and data compared with those of other animals and of man. Determinations were made both on free-living animals, and on such kept in captivity for various periods. Bibliography (16 items). The specimens were collected from Teshekpuk Lake and Anaktuvuk Pass, Alaska.

**Copy seen:** CaMAI; DGS.

**MUSACCHIA, XAVIER J., see also Wilber, C. G., & X. J. Musacchia.** Comparative study of lipids in arctic marine mammals. 1950. No. 27389.

**MUSACCHIA, XAVIER J., see also Wilber, C. G., & X. J. Musacchia.** Fat metabolism in the arctic ground squirrel. 1960. No. 27391.

**MUSACCHIA, XAVIER J., see also Wilber, C. G., & X. J. Musacchia.** Sur-

vey of lipids in arctic animals. 1951. No. 27394.

**24553. MUSTERS, J. L. CHAWORTH.** Fuglefaunaen på Jan Mayen. (Norsk ornithologisk tidsskrift, 1930. Ser. 3, nr. 11-12, p. 216-19, plate) **Title tr.:** Avifauna of Jan Mayen.

Annotated list of the 47 species then known to the author as recorded for Jan Mayen.

**Copy seen:** DI.

**24554. MUTAFI, N. N.** Vulkanicheskie tsikly i metallogeniia Novoi Zemli. (Sovetskaya geologiya, 1937. no. 3, p. 210-25) **Title tr.:** Volcanic cycles and the metallogeny of Novaya Zemlya.

The author summarizes the paleogeological traces of former volcanic activities on Novaya Zemlya, and contrary to the commonly held view on the absence of useful minerals in Novaya Zemlya, he indicates spots where ores were found by himself or other investigators: polymetallic deposits of Mityushev Kamen' and the northern and southern shores of Matochkin Shar, and copper ores on Mednyy Peninsula in Kostin Shar.

**Copy seen:** DLC.

**24555. MYL'NIKOVA-FORSHTĖIN, K. M.** Razvitiye tunguso-manchzhurskoi lodki po dannym fizyky. (In: Akademiia nauk SSSR. Institut etnografii. Pamiaty V. G. Bogoraza, 1865-1936, pub. 1937. p. 325-48, fold. table) **Title tr.:** The development of the Tungus-Manchu boat according to the linguistic data.

Here the names of various types of Tungus-Manchu boats are analyzed, in order to trace the development of those types. The simplest is (1) the raft, then come (2) the dug-out, (3) bark (especially birch-bark) boats, and (4) boats made of wooden boards. The analysis of terms reveals techniques, materials and tools used, likewise the fact that boats also serve as means of transportation to the other world (boat-grave), or to the world of spirits (the shaman's tambourine).

**Copy seen:** DLC.

**24556. NABOKO, S. I.** Ob issledovanii sublimatov Klyuchevskogo vulkana. (Akademiia nauk SSSR. Izvestiia. Seriya geologicheskaya, 1945, no. 1, p. 50-53) **Title tr.:** Investigation of the sublimates of Klyuchevskaya Sopka.

"Describes the investigation of samples collected at different times from different parts of the material erupted by the Klyuchev volcano [56°31' N. 162°32' E.],

Kamchatka Peninsula, during 1937-1938."—Geological Society of America. *Bibliography and index of geology*, 1945-46, v. 11, p. 229. Summary in English.

**Copied seen:** MH

**24557. NABOKO, S. I.** On a new fluorite mineral occurring in the sublimates of the volcano Klyuchevsky. (*Akademiia nauk SSSR. Comptes rendus (Doklady)*, 1941. nouv. ser., v. 33, no. 2, p. 140-43, tables)

**Copied seen:** DLC.

**24558. NADSON, G. A., and G. K. BURGVIITŠ.** Hefen des nördlichen Eismeres. (*Akademiia nauk SSSR. Doklady, seriia A.*, 1931. No. 4, p. 103-110, illus.) **Title tr.:** Yeasts of the polar sea.

A number of yeasts, isolated from seaweeds, are described. **Copied seen:** DLC.

**24559. NÄÄTÄNEN, ESKO K.** Über die Anthropologie der Lappen in Suomi. Helsinki, 1936. 199 p., illus., diagrs., tables. (*Suomalainen tiedeakatemia. Annales Academiae scientiarum fennicae*, A 47:2) **Title tr.:** On the anthropology of the Lapps in Finland.

Study based on body measurements of 795 individuals and on some serological tests. Introductory remarks on distribution and previous investigations of Lappish peoples. Materials collected by the author in 1926-34; methods and statistical evaluation; measurements of height of body, trunk and arm-span; detail-measurements of the trunk, the extremities, the head, the nose, mouth, eyes and ears; descriptive characteristics; color of iris and hair. Bibliography (about 140 items). **Copied seen:** DLC.

**24560. NAERT, PIERRE.** Note préliminaire sur l'aspect en zyriane. (*Suomalais-ugrilainen seura. Toimituksia*, 1950. v. 98, p. 83-86) **Title tr.:** Preliminary note on the aspect in Zyryan.

The author who started investigation of the problems of aspect (perfective and imperfective) in the Zyryan verb, gives account of his first results.

**Copied seen:** DLC; InU.

**24561. NAGATA, TAKESI.** Development of a magnetic storm: The southward shifting of the auroral zone. (*Journal of geophysical research*, June 1950. v. 55, p. 127-42, illus., tables)

"Data from a number of observatories on the auroral and magnetic disturbance of April 30, 1933 (during the 2nd International Polar Year) are analyzed and

interpreted theoretically. The southward movement of the auroral zone shows a strong correlation with the hourly increase in intensity on a world-wide basis. This may be due to increase in intensity of the equatorial current-ring, (Störmer) not to the increase in intensity of the corpuscular stream. Other theories (of Chapman, Ferraro and of Alfén) are considered."—*Meteorological abstracts and bibliography*, Aug. 1950, v. 1, no. 8, p. 515.

**Copied seen:** DLC; MH-BH.

**24562. NAGINSKIĬ, N. A.** Oledeneniie Zapadno-Sibirskoi nizmennosti. (*Priroda*, Dec. 1950. v. 39, no. 12, p. 14-21, illus.) **Title tr.:** Glaciation of the West Siberian lowland.

Contains a summary of the data revised in the light of recent information. The Siberian and Ural ice covers are discussed and comparison made of their ages. Data are presented on geological history of Ob' River system.

**Copied seen:** DLC; MH.

**NAĬDENOVA, N. V.,** see Spasskiĭ A. A., & others. Nove dannye *Ondatra zibethica*. 1951. No. 26372.

**24563. NALIMOV, VASILĬ P.** [Notes] (*Suomalais-ugrilainen seura. Aikakauskirja*, 1908. v. 25, no. 5, p. 60-61)

Notes (in French) in the Society's annual report for 1907 on Vasilii Nalimov's research trip among the Zyryans in the Sysola valley May-Sept. 1907, visiting the villages of Ib, Ust-Kulom, Sloboda, and others. He was a native Zyryan and a student at University of Moscow at this time. His trip was sponsored by the Finno-Ugric Society and the Anthropological Society of Moscow. His field of investigation was: religious beliefs, family relations, concepts of laws, and physical anthropology (measurements of 366 persons were made).

**Copied seen:** DLC; InU.

**24564. NALIMOV, VASILĬ P.** Zur Frage nach den Beziehungen der Geschlechter bei den Syrjänen. (*Suomalais-ugrilainen seura. Aikakauskirja*, 1908. v. 25, no. 4, p. 1-31) **Title tr.:** On the question of sex relations among the Zyryans.

Contains description and some attempts to explain beliefs and customs connected with sex as observed by the author in his wanderings among the Zyryans. Also the therapy of some diseases is described, e. g. twist (*Psoriasis vulgaris*),

sty, jaundice, etc.; and duties of midwife and godmothers noted.

**Copy seen:** DLC; InU.

**NALIVKIN, D. V.,** see Samollovich, R. L., & others. *Geologiya Arktiki*. 1937. No. 25812.

**24565. NANNFELDT, JOHN AXEL, 1904-**, and J. ERIKSSON. On the genus *Costantinella* Matruehot (Hyphomycetes). (Svensk botanisk tidskrift, 1952. Bd. 46, häft. 1, p. 109-128, illus.)

Contains a taxonomic study of fungi of the genus *Costantinella*, living usually on rotten wood, including *C. athriz* n. sp. native to Asele and Lule Lappmark, Sweden; bibliography (40 items).

**Copy seen:** MH-A.

**24566. NANNFELDT, JOHN AXEL, 1904-**. On the polymorphy of *Poa arctica* R. Br. with special references to its Scandinavian forms. Uppsala, Lundequistska bokhand., 1940. 85. p., plates 1-19, text maps. (Symbolae botanicae upsalienses. v. 4, no. 4)

Contains a study of the polymorphy of an arctic grass *Poa arctica*, based on the author's investigations in northern and central Sweden in 1923, 1927-28, 1934-36. Data are given on non-viviparous and viviparous races of this grass and consideration to viviparity in the genus *Poa*, western arctic element in the Scandinavian biota and its history. *P. arctica* population of north Scandinavia and extra-Scandinavian countries is dealt with. Evolution and taxonomic standing of *P. arctica*, Latin diagnoses and descriptive notes on six new subspecies are presented, including *P. arctica caespitans* native to Novaya Zemlya, West Spitsbergen, northern Scandinavia, Greenland, Ellesmere Island and Baffin Island, *P. arctica microglumis* from Lule and Torne Lappmark and Tromsø, northern Norway and *P. arctica tromsensis*. Bibliography (68 items).

**Copy seen:** DA; MH-A.

**24567. NANNFELDT, JOHN AXEL, 1904-**. *Poa rigens* Hartm. versus *Poa arctica* R. Br. Uppsala, Lundequistka bokhand., 1934. 21 p., illus., plates 1-2. (Symbolae botanicae upsalienses. v. 1, no. 3)

Contains a critical study of *Poa rigens* and *P. arctica*, native to Swedish Lapland (Lule Lappmark), based on herbarium material and literature data; these grasses, often considered as identical,

are held to be different species; bibliography (25 items).

**Copy seen:** DA; MH-A.

**24568. NANNFELDT, JOHN AXEL, 1904-**. Taxonomical and plant-geographical studies in the *Poa laxa* group. A contribution to the history of North European mountain floras. Uppsala, Lundequistka bokhand., 1935. 113 p., illus., plates 1-4. (Symbolae botanicae upsalienses. v. 1, no. 5)

Contains a complete revision of the highly polymorphous and critical *Poa laxa* group, in three parts: (1) delimitation of the *Poa laxa* group, p. 7-29; (2) species of *Poa* sect. *Oreinos* and their distribution, p. 30-61; (3) *Poa flexuosa* and its bearing upon the understanding of the north European mountain floras, p. 62-94. Appendix: list of known localities of *Poa flexuosa*, p. 95-104; bibliography (about 200 items). *P. laxa* and *P. flexuosa* are native to Swedish Lapland and northern Norway.

**Copy seen:** DA; MH-A.

**24569. NANSEN, FRIDTJOF, 1861-1930.** Isbjørnajakter under Grønlandsskysten 1882. (Jägaren, 1898, Årg. 4, Halfårsd. 1, p. 90-111, illus.) **Title tr.:** Hunting polar bear on the coast of Greenland, 1882.

Extracts from the author's diary, June 27-July 14, 1882, describing the hunting along the east coast of Greenland near 66°50' N. as he found it during his trip on the sealer *Viking* in 1882 (see *Arctic Bibliography*, No. 11991).

**Copy seen:** DI.

**NANSEN, FRIDTJOF, 1861-1930,** see also Montgomery, R. B. Discussion temp. variations. 1940. No. 24447.

**24570. NASH, D. W.** Arctic farmer. (Country guide, Mar. 1949. v. 68, p. 13, 34-35, illus.)

Contains an account of E. W. Hogan, Superintendent of the Dominion Government Reindeer Station at Aklavik; his reindeer herds of 4000 and 2000 head; history and description of Aklavik (established 1912, population 350); the climate; the Eskimo and his mentality; the problem of transforming him into a reindeer herder; Eskimo dogs; reindeer multiplication rate, pastures, etc.

**Copy seen:** DA.

**24571. NASIMOVICH, A. A.** Opyt izucheniya ekologii mlekopitavushchikh putem zimmikh troplenii. (Zoologichesk-

skil zhurnal, 1948. t. 27, vyp. 4, p. 371-78, illus.) *Title tr.:* An attempt at the study of the ecology of mammals by trailing them in the winter time.

*Contains* the results of a winter study carried out in the Lapland state preserve on Kola Peninsula: the systematic trailing of the mammals within and outside the sanctuary; with records of the trailing of martens, foxes, ermines, reindeer and other animals.

*Copy seen:* DLC; MH-Z.

**NASIMOVICH, A. A.,** *see also* Semenov-Tiān-Shanskii, O. I., & A. A. Nasimovich. Osobennosti kolebaniĭ polevok, 1949. No. 26035.

**24572. NASONOV, NIKOLAI VIKTOROVICH, 1855-1939.** Les éponges perforantes de la famille *Clionidae* de la Mer Noire et de la Mer de Barentz. (Akademiā nauk SSSR. Doklady, seriā A, Nov. 1925. p. 139-41) *Title tr.:* The porous sponges of the family *Clionidae* from the Black and Barents Seas.

Author briefly describes several sponges of this kind from both seas.

*Copy seen:* DLC.

**24573. NASONOV, NIKOLAI VIKTOROVICH, 1855-1939.** La faune des Turbellaria de la toundra de la péninsule de Kola aux environs de la ville Alexandrovsk. (Akademiā nauk SSSR. Doklady, seriā A, July-Dec. 1923, p. 75-77) *Title tr.:* The turbellarian fauna of the Kola tundra in the vicinity of Alexandrovsk.

Over 20 species of turbellarian worms are listed. Four new species are described.

*Copy seen:* DLC.

**24574. NASONOV, NIKOLAI VIKTOROVICH, 1855-1939.** K faune Turbellaria Kol'skogo poluostrova v okrestnostakh Kandalakshi. (Akademiā nauk SSSR. Doklady, seriā A, July-Dec. 1923, p. 70-71) *Title tr.:* On the turbellarian fauna of Kola Peninsula, in the Kandalaksha region.

Over 20 species of these flatworms are listed.

*Copy seen:* DLC.

**NATHAN, H. A. G.,** *see* Löfquist, B. Lifting force ice sheet. 1951. No. 23969.

**NATIONAL ACADEMY OF SCIENCE,** *see* Alaskan Science Conference, Nov. 1950. Proceedings. 1951. No. 20117.

**NATIONAL ACADEMY OF SCIENCE,** *see also* Alaskan Science Conference, Nov.

1950. Selected papers. 1952. No. 20118.

**NATIONAL RESEARCH COUNCIL,** *see* Alaskan Science Conference, Nov. 1950. Proceedings. 1951. No. 20117.

**NATIONAL RESEARCH COUNCIL,** *see also* Alaskan Science Conference, Nov. 1950. Selected papers. 1952. No. 20118.

**NATIONAL RESEARCH COUNCIL,** *see also* Moore, E. W. Summary data arctic waters. 1949. No. 24465.

**NATIONAL RESEARCH COUNCIL,** *see also* Rogers, H. G. Report sewage pumping stations. 1950. No. 25628.

**NATIONAL RESEARCH COUNCIL COMMITTEE ON SANITARY ENGINEERING & ENVIRONMENT,** *see* Alter, A. J. Arctic trichinosis, garbage disposal. 1950. No. 20159.

**NATIONAL RESEARCH COUNCIL COMMITTEE ON SANITARY ENGINEERING & ENVIRONMENT,** *see also* Clark, L. K. Human waste disposal by small groups. 1951. No. 21231.

**NATIONAL RESEARCH COUNCIL COMMITTEE ON SANITARY ENGINEERING & ENVIRONMENT,** *see also* Clark, L. K. Insulating material, sewage. 1950. No. 21232.

**NATIONAL RESEARCH COUNCIL COMMITTEE ON SANITARY ENGINEERING & ENVIRONMENT,** *see also* Fuhrman, R. E. Methods latrine construction in frozen ground. 1949. No. 21988.

**NATIONAL RESEARCH COUNCIL COMMITTEE ON SANITARY ENGINEERING & ENVIRONMENT,** *see also* Koppes, W. F. Report characteristics snow houses. 1948. No. 23384.

**NATIONAL RESEARCH COUNCIL COMMITTEE ON SANITARY ENGINEERING & ENVIRONMENT,** *see also* Rogers, H. G. Report investigation utilidor construction. 1949. No. 25627.

**NATIONAL RESEARCH COUNCIL COMMITTEE ON SANITARY ENGINEERING & ENVIRONMENT,** *see also* Thomas, H. A. Report investigation sewage treatment. 1950. No. 26672.

**NATIONAL RESEARCH COUNCIL COMMITTEE ON SYMPOSIUM ON**

**SEDIMENTATION**, *see* Black, R. F. Permafrost (*Applied sedimentation*). 1950. No. 20711.

**24575. NATIONAL RESEARCH COUNCIL. HIGHWAY RESEARCH BOARD.** Frost action in roads and airfields; a review of the literature, 1765-1951. Compiled by A. W. Johnson, Washington, D. C., 1952. 287 p., incl. illus. tables, graphs, maps, diagrs. (*Its Special report no. 1*)

"Frost action on roads includes the primary process of freezing, the secondary process of thawing, and the effects of freezing-and-thawing on pavements and their foundations. A review of the literature from 1765-1951 is summarized chronologically. The review, covering about 750 articles, appraises and abstracts the literature under the following headings: definition of frost action; the physical processes of soil freezing and thawing; magnitude of frost heave and increase in soil moisture; bearing value of ice and frozen soils; magnitude of reduction in load bearing capacity; factors influencing magnitude, rate, and nature of frost action and reduction in load carrying capacity; penetration of frost; design methods for preventing detrimental frost action; construction practices relative to frost action; permafrost; and hoar frost. The thermal properties of materials are covered in an appendix."—SIPRE.

**Copy seen:** CaMAI.

**24576. NATIONAL RESEARCH COUNCIL. HIGHWAY RESEARCH BOARD.** Frost action in soils; a symposium presented at the 30th annual meeting, Jan. 9-12, 1951. Washington, 1952. ix, 385 p. illus. (*Its Special report no. 2*) National Academy of Sciences, National Research Council. Pub. 213.

*Contains* 39 papers grouped in sections: Climate and distribution of soil; Soil temperature and thermal properties of soils; Soil moisture and moisture movements; Basic data pertaining to frost action; Frost action and spring break-up; Remedies and treatment. Chapters on needed research and discussion are appended, and bibliographic references are supplied generously throughout. The following papers appear in this Bibliography under their author's names:

SIPLE, P. A. Climatic aspects of frost heave . . . p. 10-16.

SIPLE, P. A. Ice-blocked drainage . . . p. 172-75.

SIGAFOOS, R. S., and D. M. HOP-

KINS. Soil instability on slopes . . . p. 176-92.

CARLSON, H. Calculation of depth of thaw . . . p. 192-223.

FROST, R. E. Interpretation of permafrost features from airphotos . . . p. 223-46.

**Copy seen:** DGS; DLC.

**24577. NATIONAL RESEARCH COUNCIL. SUBCOMMITTEE ON CLOTHING.** Clothing test methods. Edited by L. H. Newburgh (Physiological tests) and Milton Harris (Physical tests). Washington, D. C., 1945. 5, 98 p. diagrs., tables.

*Contains* in part 1 (p. 3-72): Herrington, L. P. Measurement of skin and clothing temperatures.

Burton, A. C. Calculation of heat debt. Belding, H. S., and others. Evaluation of thermal insulation provided by clothing.

Herrington, L. P. Moisture loss and moisture evaporation.

Blum, H. F. Solar heat load.

Burton, A. C. Transfer of heat to the ambient air and the thermal insulation of the ambient air.

Talbott, J. H. Standardization of subjects, of clothing, tolerance time, grading of sensation.

Wulsin, F. R. Metabolic rates for military activities.

Galligan, A., and R. L. Day. Statistical consideration of data.

Siple, P. A. Definition of adequacy of clothing in cold climates.

Part 2 (p. 75-98) includes outlines of textile testing methods for strength, water repellancy, thermal insulation, etc., by numerous authors and consultants. Bibliography (following some chapters.)

**Copy seen:** DLC.

**NATIONAL RESEARCH COUNCIL OF CANADA**, *see* De Quervain, M. Snow & ice problems. 1950. No. 21426.

**NATIONAL RESEARCH COUNCIL OF CANADA**, *see also* Kark, R. M., & others. Observ. Exercise Musk Ox. 1947. No. 23139.

**NATIONAL RESEARCH COUNCIL OF CANADA**, *see also* Löfquist, B. Lifting force ice sheet. 1951. No. 23969.

**NATIONAL RESEARCH COUNCIL OF CANADA**, *see also* Pearce, D. C. Bibliography on snow & ice. 1951. No. 25009.

**NATIONAL RESEARCH COUNCIL OF CANADA**, *see also* Pihlainen, J. A. Build-

ing foundations permafrost, Mackenzie. 1951. No. 25089.

**NATIONAL RESEARCH COUNCIL OF CANADA**, see also *Polar record*. Low temp. laboratory. 1952. No. 25158.

**24578. NATIONAL RESEARCH COUNCIL OF CANADA. ASSOCIATE COMMITTEE ON GEODESY AND GEOPHYSICS.** Canadian geophysical bulletin. Ottawa, 1947- Issued quarterly: v. 1, no. 1, Jan.-Mar. 1947- v. 4, no. 4, 1951; thereafter to be issued annually beginning Dec. 1952.

*Contains* news of current work of both theoretical and practical interest, and a bibliography (with abstracts) of recent publications on Canadian work under such headings as: general meteorology, hydrology, oceanography, seismology, terrestrial magnetism, geodesy (gravity), radioactivity, geothermometry, age determination and isotope variations, tectonophysics. Includes material on northern Canada. From time to time appear also retrospective bibliographies of Canadian publications in these fields; also the Committee's annual report, etc.

*File seen:* CaMAI.

**24579. NATIONAL RESEARCH COUNCIL OF CANADA. ASSOCIATE COMMITTEE ON SOIL AND SNOW MECHANICS. SUBCOMMITTEE ON CIVILIAN SOIL MECHANICS.** Bulletin, no. 1, Nov. 1947. Ottawa, 1947. 14 p. mimeographed.

*Contains* notes on the Committee and Subcommittee's organization (in 1945 and 1947 respectively), personnel and work; notes on the Second International Conference on Soil Mechanics and Foundation Engineering to be held in Holland, June 1948; summaries of papers to be submitted from Canada, including *Permafrost in the Lower Mackenzie Valley*, by R. A. Hemstock; and *Notes on some Canadian "silts"*, by R. F. Legget and F. L. Peckover, and *Soil mechanics in Canada* by R. F. Legget.

*Copy seen:* CaMAI.

**24580. NATURAL HISTORY.** More sea otters. (Natural history, May 1950. v. 59, p. 236-37, illus.)

Account of the return "from the verge of extinction" of this sea mammal, under protection by the U. S. Fish and Wildlife Service, in the Aleutian Islands.

*Copy seen:* DGS; DSI-M.

**24581. NATURE.** Effect of cold on microorganisms. (Nature, Dec. 8, 1951. v. 168, p. 990-991)

Report of a symposium held at a meeting of the Society for Applied Bacteriology, Oct. 1951, which briefly remarks on mortality, growth and viability of bacteria at low temperatures, and on enzyme action. *Copy seen:* DGS; DLC.

**24582. NATURE.** Life and work in extreme environmental conditions. (Nature, Sept. 1, 1951. v. 168, p. 363-64)

General report on the British Association for the Advancement of Science's session on this subject, held at Edinburgh, Aug. 8-15, 1951. Papers were presented by physicists, physiologists and psychologists. *Copy seen:* DGS; DLC.

**24583. NATVIG, LEIF REINHARDT, 1894-** . Differential characters of the female *Aedes nigripes* (Zett.) and *A. nearcticus* Dyar. (Dipt. Col.). (Norsk entomologisk tidsskrift, 1946. Bd. 7, hefte 5, p. 164-67)

*Contains* a comparative study of females of two mosquito species, *Aedes nigripes* and *A. nearcticus*, based on Zetterstedt's types from Swedish Lapland, the author's collection from Finnmark, extensive material from Greenland collected by Danish and Norwegian expeditions and North American specimens from the province of Alberta.

*Copy seen:* DA; MH-Z.

**24584. NATVIG, LEIF REINHARDT, 1894-** . Entomologien ved Det Kongelige Frederiks Universitet, et bidrag til norsk entomologisk historie, I. Tidsrommet 1813-1907. (Norsk entomologisk tidsskrift, 1944, pub. 1943. Bd. 7, hefte 1-2, p. 1-73, illus., 18 ports.) *Title tr.*: Entomologists at the Royal Frederiks University, and contribution to the history of Norwegian entomology, I. Period 1813-1907.

*Contains* an historical review of the progress of the study of entomology until 1907, at the (present) University of Oslo, with biographical sketches of professors and entomologists (including collectors) connected with University, bibliographies of their works, data on travels and collections and portraits; bibliography (45 items). A list of 87 entomological collections deposited in Zoological Museum of the University is included. The travels and collections of some of the biographees concern the northern regions

of Norway, as do some of the works in their bibliographies.

**Copy seen:** MH-Z.

**24585. NATVIG, LEIF REINHARDT, 1894-** . Die norwegische Finnmarks-Expedition, Culicidae. (Norsk entomologisk tidsskrift, 1928, pub. 1929. Bd. 2, hefte 5, p. 241-49) **Title tr.:** Norwegian Finnmark expedition, Culicidae.

Contains critical notes on five species of mosquitoes brought home by this expedition from Finnmark, and determined by the author.

**Copy seen:** DA; MH-Z.

**24586. NATVIG, LEIF REINHARDT, 1894-** . Notes on *Culex alpinus* Linnaeus and *Aedes nigripes* (Zett.). (Norsk entomologisk tidsskrift, 1945. Bd. 7, hefte 3-4, p. 99-106)

Contains a discussion of identity of a northern mosquito, *Culex alpinus* L., a name which should be discarded according to the author and replaced by *Aedes nigripes* Zett., described from Greenland and Lapland specimens; bibliography (36 items).

**Copy seen:** DA; MH-Z.

**24587. NATVIG, LEIF REINHARDT, 1894-** . On some anomalies in Culicidae hypopygiae. (Norsk entomologisk tidsskrift, 1934. Bd. 3, hefte 5, p. 328-31)

Contains a study of some anomalous hypopygiae of three mosquito species, one of which, *Aedes nigripes* was collected in East Greenland in 1930.

**Copy seen:** DA; MH-Z.

**24588. NATVIG, LEIF REINHARDT, 1894-** . Prosten Deinboll's insektsamling. En forsvunnet og gjenopdaget samling. (Norsk entomologisk tidsskrift, 1942. Bd. 6, hefte 2-3, p. 114-23) **Title tr.:** Insect collection of Dean Deinboll, a collection lost and restored.

Contains biographical notes on the Norwegian clergyman, Peter Vogelius Deinboll (1783-1874), a famous explorer and botanical and zoological collector (mostly in eastern Finnmark), with a list of other naturalists who contributed materials to Deinboll and data on his entomological collection (1358 species) which was lost for many years and then found by the author in the Zoological Museum at Oslo. Summary in German.

**Copy seen:** MH-Z.

**24589. NATVIG, LEIF REINHARDT, 1894-** . Thomas Georg Münster. (Norsk entomologisk tidsskrift, 1938. Bd. 5, Hefte 2, p. 49-54, port.)

Contains a memorial address delivered by the author before the Norwegian Entomological Society, April 5, 1938; with biographical data and a bibliography (70 items) of the late T. M. Münster, 1855-1938, entomologist, as well as a list of 68 new species and varieties of beetles described by him, including some arctic species.

**Copy seen:** DA; MH-Z.

**24590. NATVIG, LEIF REINHARDT, 1894-** . Über *Theobaldia bergrothi* Edw., *Th. borealis* Schingarew und *Th. glaphyroptera* Schiner. (Notulae entomologicae, 1942. v. 22, no. 1-2, p. 1-5) **Title tr.:** On *Theobaldia bergrothi* Edw., *Th. borealis* Schingarew and *Th. glaphyroptera* Schiner.

Contains a comparative taxonomic study of two mosquitoes, *Theobaldia glaphyroptera* and *Th. bergrothi*, (male, female, larva and pupa) the latter native to the northern region of Scandinavia; *Th. borealis* is distributed in Kola Peninsula.

**Copy seen:** DA; MH-Z.

**24591. NAUMOV, D. V.** Massovoe poïavlenie teplolûbivoi sifonofory v planktone Barentsova moria. (Priroda, Nov. 1951. v. 40, no. 11, p. 62-63, illus.) **Title tr.:** Mass appearance of warm-water siphonophores in the plankton of the Barents Sea.

Contains a record of the mass appearance in Murman waters, in the summer of 1950 of *Physophora hydrostatica*, a siphonophore very rare in the Barents Sea. 69 specimens of this marine species native to much warmer regions, were collected in the vicinity of Murman Biological Station, on Kola Peninsula.

**Copy seen:** DLC; MH.

**24592. NAUMOV, D. V.** Novyi predstavitel' roda *Anthomastus* Verrill (Aleyonaria) iz ratalona Kuril'skoi grâdy. (Zoologicheskii zhurnal, 1952. t. 31, vyp. 2, p. 238-43, illus., plate, text map) **Title tr.:** A new representative of the genus *Anthomastus* Verrill (Aleyonaria) from the region of Kurile Islands.

Contains a Russian diagnosis of *Anthomastus rylovi* n. sp., an aleyonarian collected in 1948 in the Okhotsk Sea, near Sikotan Island by the Kurile-Sakhalin Expedition of the Zoological Institute of the Academy of Sciences U.S.S.R.

**Copy seen:** MH-Z.

**24593. NAUMOV, S. P., and N. P. LAVROV.** Biologiya promyslovykh zverei i ptits SSSR. Dopushecheno Upravleniem

uchebnymi zavedeniĭami Ministerstva zagotovok Soĭūza SSR v kachestve uchebnogo posobiĭa dlia zootekhnikumov. Pod redaktsiei A. M. Kolosova. Moskva, Gosudarstvennoe izd-vo tekhnicheskoi i ekonomicheskoi literatury po voprosam zagotovok, 1948. 357 p., illus., tables, maps. **Title tr.:** Biology of commercially important wild animals and birds of the U.S.S.R. Authorized by the Board of Education in the Department of Supplies of the U.S.S.R. as a textbook for zootechnical schools. Edited by A. M. Kolosov.

The book deals with wild mammals (p. 11-219) and birds (p. 220-323), and is organized in a taxonomic order. For each taxonomic group, including species, data are given on: morphology (size and color included); ecology; duration of pregnancy; size of litter; food and geographical distribution. In addition, the economic value, relative abundance and often numbers killed, are discussed. A final section (p. 324-52) deals with: general biological problems of the annual cycle, distribution and fluctuations in numbers; economic-geographic zones (tundra, forest, forest-steppe, semi-desert, and desert) of the U.S.S.R. Arctic species, both aquatic and terrestrial are included.

**Copy seen:** DLC.

**24594. NAUMOVA, S. N.** K petrografii treditnykh i melovykh uglei Kamchatki. (Akademiĭa nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1938. no. 29 (2), p. 63-69, illus.) **Title tr.:** On the petrography of Tertiary and Cretaceous coals of Kamchatka Peninsula.

Contains a treatment of material from some coastal deposits in northwestern Kamchatka Peninsula collected by B. V. Khvalo in 1933-34, near Podkagernaya Bay (Tertiary) and Cape Astronomicheskii (Cretaceous), with data on petrographic structure, characteristics and genesis of various types of coals. Summary in English.

**Copy seen:** DLC; MH-A.

**24595. NAVAS, LONGINUS, 1858-1938.** Insecta asiatica, IV series. (Russkoe entomologicheskoe obozrenie, 1930. t. 24, no. 3-4, p. 194-96, illus.) **Title tr.:** Asiatic insects, series IV.

Contains a list of eight Asiatic species, including descriptions of four new species (patria: "Sibirie"); and *Hydropsyche ornata* from the lower Lena region; parts I-III of this work do not include arctic material. **Copy seen:** DSI-M; MH-Z.

**24596. NAVOZOV-LAVROV, N. P.** Novyi, vid srednekhvostykh rakov iz Okhotskogo moria, *Paralithodes longirostris*, n. sp. (Gidrobiologicheskii zhurnal SSSR, 1929. t. 8, no. 6-7, p. 174-78, illus.) **Title tr.:** A new species of Anomura from the Okhotsk Sea, *Paralithodes longirostris*, n. sp.

Contains Russian and English diagnoses of a very rare marine crustacean, *Paralithodes longirostris* n. sp. of the group Anomura, found in the Okhotsk Sea but also known from the Bering Sea; it is compared with *P. kamtschatica*. Summary in English. **Copy seen:** MH-F.

**24597. NEES, LOUIS A., and A. M. JOHNSON.** Preliminary foundation exploration in arctic regions. (In: American Society for Testing Materials. Symposium on surface and subsurface reconnaissance, 1951. Its: Special technical publication no. 122, 1952. p. 28-39, illus.)

Contains brief discussion of practical requirements for soil test and reconnaissance parties in the North American Arctic, including pre-survey map and air photograph studies, organization of transportation, supplies, equipment and personnel, and problems of conducting the field work with respect to aerial and foot reconnaissance, exploration drilling, excavation, sampling and testing.

**Copy seen:** DGS.

**24598. NEFEDOV, N. K.** Nekotorye novye porody Lovozerskogo plutona na Kol'skom poluostrove. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1938. Seriya 2, chast' 67, p. 507-525, illus., 2 plates, tables) **Title tr.:** Some new rocks of the Lovozero pluton on the Kola Peninsula.

Brief characterization of the pluton, formed during three intrusion phases, the second and third of which contain the four new rocks here petrographically described in detail (with results of chemical analyses): loparite luyavrites, urtites, malignites and porphyraceous yuvites. Bibliography (12 items). Summary in English. **Copy seen:** DGS.

**NEFEDOV, N. K., see also Eliseev, N. A., & others.** Geol. stroenie Lovozerskikh tundr. 1938. No. 21643.

**24599. NÉGRÉ, BERTRAND.** Sondages thermiques. (In: Victor, P.-É., and others, Rapport préliminaire de la campagne au Groenland, 1949, pub. 1950, p.

28-30 incl. table) *Title tr.*: Thermal soundings.

"Thermal soundings are made with a heating device at the base of a brass cylinder which melts the ice and facilitates the gradual penetration of the sounding cylinder into the ground. The heating device used during the expedition was a chromed Ni resistance wire, coiled to a cone, powered by a generator of 110 v. direct current of 10 kw. The conductors were 45-mm. thick cables. Soundings reached a depth of 50 m. after 30 hrs. Difficulties encountered are described. Improvements suggested include a heating element in the upper sounding body, resistances fit for air and water operation, and an increase to 220-440 v. to diminish the cable weight. Temperatures at 14, 25 and 36-m. depths are tabulated for the period Aug. 8-28."—SIPRE.

*Copy seen:* CaMAI.

**NÉGRÉ, BERTRAND**, *see also* Victor, P. E., & others. Rapport prélim. 1949. 1950. No. 27104.

**24600. NEHRING, ALFRED, 1845-1904.** Ueber Tundren und Steppen der Jetzt- und Vorzeit, mit besonderer Berücksichtigung ihrer Fauna. Berlin, F. Dümmler, 1890. viii, 257 p., illus., fold. map. *Title tr.*: On tundras and steppes of the present and past, with special reference to their fauna.

*Contains* an extensive study based largely on paleozoology and resulting in a theory according to which the tundra fauna originates from, and was, under certain conditions, superseded by the fauna of the steppes; the latter in turn was succeeded by a forest fauna. This work includes chapters on: the tundras or arctic steppes (p. 5-45), the subarctic steppes of Russia and southwestern Siberia (p. 46-130); general observations on the climate and fauna of the glacial and post-glacial period; the past distribution of lemmings in Europe; past tundras in Central and Western Europe (p. 157-71); past steppes in Central Europe. Bibliography (about 250 items).

*Copy seen:* DLC.

**NEHRING, ALFRED, 1845-1904**, *see also* Menzbir, M. A. Ueber Fauna d. Tundren. 1923-24. No. 24291.

**24601. NEISHTADT, MARK IL'ICH, 1903-** . O nekotorykh voprosakh, voznikavshchikh v svyazi s izucheniem torfianikov Kamchatki. (Moskovskoe ob-

shchestvo ispytatelei prirody. Bülleten', 1936. Otdel. biol. Novaya seriya, t. 45, vyp. 2, p. 159-70, illus., diagrs.) *Title tr.*: On some questions arising from the study of the peat bogs of Kamchatka.

*Contains* an attempt at examination of such problems as the identical position of interlayers of volcanic sand in peat deposits of Kamchatka and Tierra del Fuego; geological age; subdivisions in post glacial epoch on Kamchatka; history of forest vegetation and climatic fluctuations during the post-glacial period; the problem of the origin and history of Kamchatka lakes and the transgression of the eastern coast of the Okhotsk Sea: Bibliography (18 items). Summary in French. *Copy seen:* DLC; MH-A.

**24602. NEKRASOV, B. IŬ.** Les. Moskva, Gosudarstvennoe izd-vo kul'turno-prosvetitel'noi literatury, 1948. 139 p., illus. *Title tr.*: The forest.

A popular book on the forest and its blessings, with chapters on: the forest as a productive force of nature; "green gold"; forest lands; forest and science; afforestation, reafforestation and forest protection. In addition to scattered references to arctic conditions, the book contains a section (p. 63-68) on the forests of the northern Pechora.

*Copy seen:* DLC.

**24603. NEKRASOVA, T. P.** Kul'tura listvennitsy na Kol'skom poluostrove. (Lesnoe khozaystvo, Feb. 1950. Novaya seriya. v. 3, no. 2 (17), p. 67-70, illus., table) *Title tr.*: The culture of larch on the Kola Peninsula.

*Contains* an account of the Siberian larch (*Larix sibirica*) its growth qualities and distribution in Russia; experiments with it on various stations in the Kola Peninsula with data on planting, rate of growth (including height and diameter of stem), roots, etc. Experiments were conducted on various soils at different altitudes.

*Copy seen:* DLC.

**24604. NEKRASOVA, VERA LEON-T'EVNA, 1881-**, and I. A. PANKOVA. Piassava i ee vozmozhnye zameniteli. (Akademiya nauk SSSR. Botanicheskii institut. Trudy, seriya 5, Rastitel'noe syr'e, 1949, vyp. 2, p. 126-71, illus., tables) *Title tr.*: Piassava and its possible substitutes.

*Contains* a list of palms serving as a source of piassava, data on anatomical structure, technical properties and uses of this fiber (rope, brushes, etc.); a list

of 27 plants (palms, bamboos and other trees and shrubs) from various regions, the fiber of which can be used as a substitute of piassava, including a shrub of Rosa family, *Sorbaria sorbifolia*, native to the Far East and Kamchatka; data on technical properties of investigated woody plants (see tables) and methods of their preparation.

**Copy seen:** MH-A.

**24605. NEKRASOVA, VERA LEONTEVNA, 1881-**, and others. Rastitel'noe syr'e dlia shchetochnogo proizvodstva. (Akademiia nauk SSSR. Botanicheskii institut. Trudy. Seria 5, Rastitel'noe syr'e, 1949. vyp. 2, p. 68-125, illus.) Other authors: V. G. Malova and I. A. Pankova. **Title tr.:** Vegetative raw materials for the brush industry.

Contains some historical notes, a list of ten species of plants, the roots of which are very good for use in the brush industry, including *Elymus arenarius*, native to European arctic regions of the U. S. S. R. (Nova Zemlya, Kola Peninsula, Arkhangelsk region); with data on habitat, distribution, anatomical structure, technical properties and methods of preparation. Another list is given of plants which proved to be only acceptable for such use; and the third list, plants rejected by the authors. Table of analyses (p. 119-21) and bibliography (54 items) conclude the study. **Copy seen:** MH-A.

**NELBACH, JEAN HUME**, see Winslow, C.-E. A., & others. Influence temperature & humidity upon oral mucosa. 1942. No. 27452.

**NELSON, A. E.**, see White, M. G., & others. Preliminary summary uranium Alaska. 1952. No. 27349.

**24606. NELSON, EDWARD WILLIAM, 1855-1934.** The big game of Alaska. (American Wildlife, Apr. 1921. v. 10, no. 2, p. 2-7, illus.)

Remarks on the white and native Alaskans' desire for protection of game; and on the history and (then) current status of moose, caribou, blacktail deer, mountain goats and sheep, musk oxen, bears, and walrus, including notes on their habits. **Copy seen:** DI.

**NELSON, EDWARD WILLIAM, 1855-1934**, see also Sanders, I. T. Societies around the world. 1952. No. 25824.

**24607. NEPRIAKHIN, M. G.** Rybnaia gosudarstvennaia promyshlennost' na se-

vere SSSR. (Sovetskaiia Azia, 1927. god 3, no. 5-6, p. 156-68) **Title tr.:** The state fish industry in the U.S.S.R. North.

Contains report on the achievements of fishing industry in the Far East, Kamchatka, Murmansk, White Sea and northern Tobolsk during 1922-27.

**Copy seen:** DLC.

**24608. NERSESOVA, Z. A.** O taiani l'da v gruntakh pri otritsatel'nykh temperaturakh. (Akademiia nauk SSSR. (Doklady) 1951. t. 79, no. 3, p. 507-508, incl. diag., table) **Title tr.:** The melting of ground ice at negative temperatures.

"The dilatometric method for determining the amount of free water in soils at specific temperatures below 0° C proved inadequate. Ground water containing minute clay particles freezes at temperatures well below 0° C. The frozen soil thaws at increased temperatures below 0° C in reverse order of its formation. Ice melts at 0° C in sandy soils, at about -2° C in loamy soils containing 20 to 60 per cent of clay, and at about -3° C in Jurassic clay."—SIPRE.

**Copy seen:** DLC.

**24609. NERVANDER, J. J.** Berechnung von Beobachtungen des täglichen Ganges der Temperatur in einigen arctischen Gegenden. (Finska vetenskaps-societen, Helsingfors. Acta Societatis scientiarum fennicae, 1847. v. 2, p. 945-1008, tables) **Title tr.:** Calculation from observations on the diurnal course of the temperature in some arctic areas.

Contains calculations of temperatures observed (on the Parry expedition 1819-20) at two-hourly intervals, for the following localities in the Canadian Arctic: Melville Island (74°47' N.) Sept. 1819-Aug. 1820; Winter Island (66°11' N.) July 1821-June 1822; Igloodik (69°21' N.) Aug. 1822-July 1823; Port Bowen (73°11' N. 89° W.), Sept. 1824-Aug. 1925; also Seichte Bay on Novaya Zemlya (73°57' N.) Sept. 1838-July 1839.

**Copy seen:** DLC.

**24610. NESHEIM, ASBJØRN.** "Koaffikset" n i den lappiske possessive deklinasjon. (Studia Septentrionalia, 1945. v. 2, p. 149-75) **Title tr.:** The "coaffix" n in the Lapp possessive declension.

Contains a survey of available Lapp material and an attempt by a linguistic analysis of the latter and by a comparison with the other Finno-Ugric languages and

with Samoyed, to elucidate the origin of this *n*-element.

**Copy seen:** DLC; InU.

**24611. NESHEIM, ASBJØRN.** Der lappische Dualis, mit Berücksichtigung finnisch-ugrischer und indo-europäischer Verhältnisse. Oslo, 1942. 145 p. (Norske Videnskaps-akademi, Oslo. Historisk filosofisk klasse. Skrifter, 1941. no. 5) **Title tr.:** The dual in Lappish language; with consideration to the Finno-Ugric and Indo-European relations.

A study in linguistics.

**Copy seen:** DLC; InU.

**24612. NESHEIM, ASBJØRN.** On the question of consonant combinations in Finno-Ugric. (Suomalais-ugrilainen seura. Toimituksia, 1950. v. 98, p. 165-88)

Lapp words with a comparatively long stem consonant, the last component of which is a *g*, are the main object of this study. The author thinks it possible to identify this *g* with the Finno-Ugric lative suffix *k* (*g*), but considers the extent to which consonant combinations existed in the primitive Uralic can be determined, only after those combinations in individual languages have been studied thoroughly.

**Copy seen:** DLC; InU.

**24613. NESHEIM, ASBJØRN.** Russiske og russisk-finske lånord i Finnmark-Lappland. (In: Festskrift til Prof. Olaf Broch, Oslo, 1947, p. 155-67) **Title tr.:** Russian and Russian-Finnish loan-words in the Lapp language of Finnmark.

**Copy seen:** DLC; InU.

**24614. NESSLING, ELIEL, 1871-1941.** Några anmärkningsvärda fynd av Coleoptera. (Notulae entomologicae, 1934. v. 14, no. 1-2, p. 62) **Title tr.:** Some interesting finds of Coleoptera.

Contains a list of ten beetles new to the fauna of some regions of Finland, including seven species native to Pudasjärvi, northern Ostrobothnia.

**Copy seen:** DLC; MH-Z.

**24615. NESTEROV, V. G.,** Obshchee lesovodstvo. Dopuscheno v kachestve uchebnika dlja lesotekh. i lesokhozjajstvennykh vuzov. Moskva, Goslesbumizdat, 1949. 664 p., illus. **Title tr.:** General silviculture. Authorized by the Ministry of Higher Education of the U.S.S.R. as a textbook for colleges of forest technique and management.

A comprehensive, technical book on forestry, with direct references to arctic

conditions in chapters on climate (p. 91), forest-types (p. 271), forest distribution in U.S.S.R. (p. 298), and snow damage (p. 434); also numerous indirect references; bibliographies follow each chapter.

**Copy seen:** DLC.

**NESTEROVA, V. G.,** see Morozov, G. F. Uchenie o lese. 1949. No. 24482.

**24616. NETOLITZKY, FRITZ.** Beiträge zur Kenntnis der Bembidiini (Carabidae), 33. Beitrag. (Koleopterologische Rundschau, 1930-31, pub. 1930. Bd. 16, nr. 5, p. 177-90) **Title tr.:** Contributions to the knowledge of the species of the genus *Bembidion* (Carabidae), 33d contribution.

Contains descriptions of some new subspecies of ground beetles of the genus *Bembidion* and a study of geographic races and aberrations of the same genus; includes *B. saazatile* and its races, some occurring in northern Scandinavia and in Kamchatka Peninsula.

**Copy seen:** MH-Z.

**24617. NETOLITZKY, FRITZ.** *Bembidion* Studien (Carabidae), das Subgenus *Plataphus* Motsch. (Wiener entomologische Zeitung, 1913. Bd. 32, hefte 4-6, p. 137-52) **Title tr.:** *Bembidion* studies (Carabidae), subgenus *Plataphus* Motsch.

Contains a critical study of 18 species of ground beetle of the genus *Bembidion*, with a key to the species, critical notes and data on distribution and a catalogue of synonyms; includes at least four species from northern Siberia (Yakutsk and Krasnoyarsk regions) and two species from northern Scandinavia.

**Copy seen:** MH-Z.

**24618. NETOLITZKY, FRITZ.** Catalogus systematicus specierum palaearticarum generis *Bembidion* Latr. (Carabidae). (Archiv für Naturgeschichte, 1927. Bd. 87-A, Heft 7, p. 183-229) **Title tr.:** A systematic catalog of palae-arctic species of the genus *Bembidion* Latr.

Contains a systematic list of 326 species and many subspecies and forms of ground beetles of the genus *Bembidion*, with literature citations and data on distributions, including some species native to northern Europe and Asia (collections made by J. Sahlberg and B. R. Poppius in Siberia); register of the species and forms, p. 224-29.

**Copy seen:** DLC; MH-Z.

**24619. NEUBERGER, HANS.** Arago's neutral point; a neglected tool in meteorological research. (American Meteorological Society. Bulletin, 1950. v. 31, no. 4, p. 119-25, 5 figs., 5 tables)

"Nature and principles of Arago's neutral point of atmospheric polarization are explained. Various criteria of atmospheric turbidity that can be derived by neutral point observations, their merits, usefulness and potentialities, are discussed. In particular, the influence of the size of the particles polluting the atmosphere and of meteorological factors on spectral observations of Arago's neutral point is shown. Problems are presented. Reference is made to observations made after Katmai eruption, 1911 to 1913."—*Meteorological abstracts and bibliography*, June 1950, v. 1, no. 6, p. 369. **Copy seen:** DWB.

**24620. NEUBERGER, RICHARD LEWIS, 1912-** Scourge of the North. (Survey graphic, 1947. v. 36, p. 682-86, illus.)

Contains a plea for more anti-tuberculosis work in Alaska, especially by the U. S. Federal Government. Quoting figures to prove that Alaska has the greatest mortality from TB in the world, the author gives an outline of: the medical work presently done; the causes of the bad condition—poor diet, lack of sunshine, alcoholism, etc.; the present hospitalization facilities. **Copy seen:** DSG.

**NEUBERGER, RICHARD LEWIS, 1912-**, see also U. S. Congress. Senate. Committee on Interstate & Foreign Commerce. Alaskan shipping. Hearings. 1948. No. 26940.

**NEUMANN, CARL W.**, see Brehm, A. E. Auf Forscherfahrt in Nord u. Süd. 1925. No. 20877.

**24621. NEUMANN, KURT.** Die Wachstumsgeschwindigkeit von Eisdecken in Abhängigkeit von Lufttemperatur und Windgeschwindigkeit. (Naturwissenschaften, 1949. Bd. 36 (8), p. 249-50) **Title tr.:** The rate of growth of an ice cover as a function of air temperature and wind velocity.

Mathematical formulae with explanatory remarks. **Copy seen:** DLC.

**24622. NEUNTEUFL, JOSEF.** Die Erschliessung Alaskas und Nordkanadas in neuester Zeit. (Geographische Gesellschaft, Wien. Mitteilungen, 1950. Bd. 92, p. 136-40) **Title tr.:** Opening up of

Alaska and northern Canada in recent years.

General sketch of progress in the North American Arctic in the 20th century: the Alaska Highway, the new airlines, the Hudson Bay Route, industrial and mining development; and notes on the more important cities. **Copy seen:** DLC.

**NEUPOKOEV, V. K.**, see Makarov, S. O. S. O. Makarov i zavoevanie Arktiki. 1943. No. 24121.

**24623. NEVIÈRE, JEAN.** Géodésie. (In: Victor, Paul-Émile, and others, Rapport préliminaire de la campagne au Groenland 1949, pub. 1950, p. 15-22, table) **Title tr.:** Geodesy.

Contains a report of the work done by the geodetic group of the expedition including data on: the methods and apparatus used; the rate of flow of the Equip Sermia glacier; movement, during 1948-49, of the Greenland inland ice, astronomical observations; local geodetics, reconnaissance and navigation; test of apparatus and methods, etc.

**Copy seen:** CaMAL

**24624. NEVSKIIĬ, V. V.** Pervoe puteshestvie Rossiian vokrug sveta. Moskva, Gos. izd-vo geograficheskoi literatury, 1951. 272 p., illus. tables, maps (1 fold.)

Contains an account and analysis of the first Russian round-the-world voyage made by I. F. Kruzenshtern and Ū. F. Lisianskii on the *Nadezhda* and *Neva* in 1803-1806, with an evaluation of its importance to Russian science. The itinerary included calls in the Russian possessions in the North Pacific region. Following areas were visited and are dealt with: Kamchatka (p. 144-54, 155), Kodiak Island and Novo-Arkhangelsk (now Sitka) (p. 158-74), and Sitka (now Baranof) Island (p. 174-83). Bibliography (around 100 items, nearly half of them, separately listed, by the participants of this expedition.)

**Copy seen:** DLC.

**24625. NEWBURGH, LOUIS HARRY, 1883-**, editor. Physiology of heat regulation and the science of clothing. Philadelphia, Saunders, 1949. xiii, 457 p. illus.

Prepared at the request of the Division of Medical Sciences, National Research Council, by a civilian committee under the auspices of several agencies of the U. S. government.

**Contents:** Pt. 1. Human response to the climatic environments.

1. WULSIN, F. R. Adaptations to climate among non-European peoples.
2. YAGLOU, C. P. Thermometry.
3. HARDY, J. D. Heat transfer.
4. BAZETT, H. C. The regulation of body temperatures.
5. ROBINSON, SID. Physiological adjustments to heat.
6. SPEALMAN, C. R. Physiologic adjustments to cold.
7. DAY, RICHARD. Regional heat loss.
8. HERRINGTON, L. P. The range of physiological response to climatic heat and cold.
9. YAGLOU, C. P. Indices of comfort.

Pt. 2. *Clothing a thermal barrier.*

10. FOURT, L., and M. HARRIS. Physical properties of clothing fabrics.

11. Forbes, W. H. *Laboratory and field studies.* General principles. (This is a recapitulation of the general principles mentioned in the preceding chapters of this monograph and serving as introduction to the following laboratory and field studies. Specifically it shows by examples what part each factor is likely to play in special situations. Fundamental points in heat loss; effect of clothing and various climatic conditions, including arctic, are brought forward).

BELDING, H. S. . . . Protection against dry cold.

SPEALMAN, C. R. . . . Wet cold.

SPEALMAN, C. R. . . . Water.

VAN DILLA, A. M., and others. . . . Special problems of hands.

12. SIPLE, P. A. . . . Clothing and climate.

Appendix: Forbes, W. H. Definitions, miscellaneous figures and conversion factors. (Presents information on basic concepts, measures and measuring units used in studies of climate, clothing, physiology (especially metabolisms), thermic problems, etc., including those of arctic nature).

This work includes also papers on Desert and Tropics not listed here. Each paper listed (excepting Forbes') appears in this Bibliography under its author's name. The whole work was previously listed as *Arctic Bibliography*, No. 12223.

**Copy seen:** DLC.

NEWBURGH, LOUIS HARRY, 1883- . See also National Research Council. Subcommittee on Clothing. Clothing test methods. 1945. No. 24577.

**24626. NEWELL, IRWIN MAYER, 1916-** . *Copidognathus curtus* Hall, 1912, and other species of *Copidognathus* from western North America (Acari, Halacaridae). New York, 1951. 27 p. incl. 11 plates. (American Museum of Natural History, New York. American museum novitates. no. 1499)

Detailed descriptions of five new species of marine mites, four from Aleutian waters, and one from north of Wainwright in Northern Alaska (with re-description of a California species); a study made possible through aid of the Arctic Institute of North America. Bibliography (11 items).

**Copy seen:** DSI-M.

**24627. NEWELL, IRWIN MAYER, 1916-** . Further studies on Alaskan Halacaridae (Acari). New York, 1951. 56 p., incl. 18 plates. (American Museum of Natural History, New York. American museum novitates. no. 1536)

Describes ten new species and one new subspecies of water mites and adds two new records for Alaskan waters, bringing the total discussed for the region to 27 species. Offers a table of principal specific characters in the genus *Copidognathus*, and a formula key to known species from the Arctic Ocean, Bering Sea and the adjacent North Pacific. Bibliography (11 items).

**Copy seen:** DGS; DSI-M.

**24628. NEWELL, IRWIN MAYER, 1916-** . New species of *Agave* and *Thalassarachna* from the Aleutians (Acari, Halacaridae). New York, 1951. 19 p. incl. 7 plates. (American Museum of Natural History, New York. American museum novitates. no. 1489)

Detailed descriptions of four new species of marine mites, one from Pribilof and Aleutian waters, the other three from the deep waters of the "Aleutian saddles" only.

**Copy seen:** DSI-M.

**24629. NEWELL, IRWIN MAYER, 1916-** . New species of *Copidognathus* (Acari, Halacaridae) from the Aleutians. New York, 1950. 19 p. incl. 6 plates. (American Museum of Natural History, New York. American museum novitates. no. 1476)

Descriptions of four new species of marine mites from Aleutian waters, comprising "the first of a series of studies . . . devoted to arctic Halacaridae" with the aid of the Arctic Institute of North America. This report is based on mate-

rial mostly collected by the author in 1948. **Copy seen:** DSI-M.

**NEWILL, PHILIP**, *see* Pearson G., & P. Newill. I'll take sled dogs for rough going. 1950. No. 25012.

**24630. NEWHOUSE, JOAN.** Reindeer are wild too. London, Murray [1952]. 174 p. illus.

*Contains* a narrative of the author's journey through Norwegian Lapland, Feb.-Oct. 1947, from Hammerfest by Bossekop and Sjusjaure to Kautokeino and return to Seiland, to study modern Lappish life. In addition to description of the country, its climate and nature, sledge, ski and foot travel, she gives a vivid portrayal of the life and customs of the Lapps among whom she lived; hut and tent life, christening and bringing-up of children; courtship, wedding and feasting customs; the spring migration with the reindeer herds to Seiland, etc. She notes Swedish and Norwegian government policy in relation to the Lapps: schools, trade, reindeer husbandry, etc.

**Copy seen:** DLC.

**24631. NEWMAN, BARCLAY MOON.** Human hibernation; what today of the frozen sleep therapy for cancer?; failure, or success? (Scientific American, May 1941. v. 164, p. 286-87, illus.)

*Contains* a popular account on artificially produced general hypothermia in man, with information on physiological changes during "human hibernation"; basal metabolism, circulation, pulse, etc. The medical potentialities of the procedure are discussed. **Copy seen:** DLC.

**24632. NEWNHAM, E. V.** Classification of synoptic charts for the North Atlantic for 1896-1910. (Great Britain. Meteorological Office. Geophysical memoirs, 1925. v. 3, no. 26, p. 181-200, fig., 4 tables)

"Daily synoptic charts for Atlantic north of 30° N., Greenland and western Europe are classified by location of anticyclones and depressions. Monthly frequencies of 10 types are given and briefly discussed. An index gives data of 36 anticyclones typed."—*Meteorological abstracts and bibliography*, May 1952. v. 3, p. 478. **Copy seen:** DWB.

**24633. NEWSWEEK.** Club and Educational Bureaus. Do the polar regions hold the key to our future? New York, 1947. 15 p.

Popular sketch of the Arctic (p. 1-13)

its aerial communications, military and naval strategy and mineral resources; Antarctic (p. 13-15)

**Copy seen:** CaMAI.

**NEWTON, EDWIN TULLEY, 1840-1930**, *see* Pearson, H. J. "Beyond Pet-sora eastward". 1899. No. 25015.

**NEWTON, MICHAEL**, *see* Spealman, C. R., & others. Influence temperature & posture on volume & composition blood. 1947. No. 26377.

**NEWTON, MICHAEL**, *see also* Spealman, C. R., & others. Observations energy metabolism & water balance of men. 1948. No. 26380.

**24634. NEY, C. H.** Reflections of a Canadian geodesist. (Surveying and mapping, Apr.-June 1951. v. 11, no. 2, p. 116-23, illus.)

*Contains* information on the use of precise and second-order astronomy in geodetic survey drawn largely from work at Laplace stations in northern Canada. Instrumentation, demarcation of boundaries, control of mapping are discussed. Author remarks also on historic Churchill, and on the modern Eskimo.

**Copy seen:** DLC.

**24635. NICHOLAS, J. E., and J. S. PERRY.** The basic behavior of freezing and thawing of six foods. (Agricultural engineering, Feb. 1951. v. 32, no. 2, p. 102-105, diags.)

*Contains* information on (artificial) freezing and thawing of raspberries, strawberries, grapes, plums, beans and peas. Each fruit or berry was frozen individually and then thawed back to room temperature; the physical, especially thermic behavior of the objects was studied during these processes. The information gained is of value for arctic farming, forestry, etc. Bibliography (4 items).

**Copy seen:** DA.

**NICHOLS, JOHN R.**, *see* U. S. Dept. of the Interior. Pribilof Islands Survey Group. Pribilof Island survey reports. Observ. 1949. No. 26947.

**24636. NICHOLS, JOHN TREADWELL, 1883-** . Additional data on the occurrence of Dall's porpoise. (Journal of mammalogy, Feb. 1950. v. 31, p. 99).

Brief notes on observations of the porpoise in the Gulf of Alaska, July 1926.

**Copy seen:** DGS; DSI-M.

**NICHOLS, JOHN TREADWELL, 1883-**, see also Harper, F., & J. T. Nichols. Six new fishes. 1919. No. 22433.

**24637. NICHOLSON, NORMAN L.** Resources of the Arctic. 5 p. maps. (Focus, Feb. 15, 1932. v. 2, no. 6)

Brief notes on arctic limits, permafrost, soils, vegetation, fur, fish and sea mammals, minerals, transportation and native peoples. *Copy seen:* CaMAI.

**NICKEL, CARL**, see **NICKUL, KARL**.

**NICKERSON, JOHN L.**, see Conley, C. L., & J. L. Nickerson. Effects temp. change on water balance in man. 1945. No. 21283.

**NICKERSON, RALPH FRANCIS, 1906-**, see Freeman, H., & R. F. Nickerson. Skin & body temperatures under cold conditions. 1938. No. 21913.

**24638. NICKUL, KARL.** Eräs kolmionmittaus talvella Itä-Lappissa. (Maanmittaus, 1927. v. 2, no. 4, p. 221-29, illus., map) *Title tr.:* Triangulation measurements during the winter in eastern Lapland.

Contains a general report on triangulation carried out during the winter of 1927 in northeasternmost Finland (roughly 66°40'-68°40' N. 28°-30°30' E.). Air temperature, characteristics of the snow cover are indicated, organization and adaptation of the work routine to winter conditions discussed, boundary markers and use of reindeer described. *Map* shows itineraries and campsites of the ski- and reindeer-equipped personnel, etc., in the triangulation area.

*Copy seen:* DLC.

**24639. NICKUL, KARL.** Eräs Petsamokysymys, suonikylän Alueesta Koltakulttuurin suojelualue. (Terra, 1935. 47:2-3, p. 81-105, 18 illus., incl. sketch maps) *Title tr.:* The Petsamo question: Proposal for making the Suoni region a protected area for Skolt Lapp culture.

Data on the nomad Skolt Lapps; the area they occupy in the Petsamo region (shown on map); their history, mode of life and reindeer; suggestions for the protecting and preserving of their culture. Includes many photographs, illustrative of their way of life and activities, with detailed annotations. Summary in German. *Copy seen:* DLC.

**24640. NICKUL, KARL.** The Finnish Lapps in wartime and after. (Man, 1950. v. 50, p. 57-60, 3 illus., map)

There are about 2,500 Lapps (.06 per cent of the total population) in Finland, and the Finns take good care of them. During Finland's winter war (1939-40) the Skolt Lapps were evacuated to the county of Tervola (between Kemi and Rovaniemi), and the Lapp fishermen of eastern Inari were moved to Muonio, on the Swedish frontier. The effects of the Second World War were more serious. The Germans held northern Finland and had to be driven out by force in the winter of 1944-45. The Lapps were swiftly evacuated to Sweden and to Pohjanmaa in northernmost Finland. In the spring and summer of 1945, the Lapps returned home to find only ruins left by the Germans and the pursuing Finnish forces. The health of the Lapps suffered very much from the war and evacuation: tuberculosis, venereal diseases, and alcoholism increased definitely. The Lapps in military service had casualties amounting 2 per cent of their population. The stock of reindeer was seriously depleted: in 1938 the Lapps owned 47,000 head, in 1946 about 26,000. Post-war relief came from U.N.R.R.A. (-U.S.A.), England, and Sweden. The Suenjel Skolts had to be resettled in northeastern Inari, because their territory fell to the U.S.S.R. The Finnish government built houses for the Skolts spending about 60 million Finnish marks. The Lapps of Finland are not a dying race.

*Map* shows evacuation areas for Finnish Lapps (1939-45) and the Skolts' new pasture lands (1947).

*Copy seen:* DLC; InU.

**24641. NICKUL, KARL.** Petsamon eteläosan koltankieliset paikannimet kartografiselta kannalta. Helsinki, 1934. 81 p., 2 fold. maps. (Fennia, 60:1) *Title tr.:* Skolt language place names in southern Petsamo from a cartographic viewpoint.

Alphabetical list of 1543 place names with some annotations, and locations shown on map. Prefatory remarks (p. 5-31) on the names as cultural indicators, etc. Summary in German.

*Copy seen:* DLC.

**24642. NICKUL, KARL.** Petsamon tutkimus ja Suomen Maantieteellinen Seura. (Terra, 1938. 50: 1-2, p. 154-60) *Title tr.:* The scientific exploration of Petsamo and the Geographical Society of Finland.

Discussion of the role of the Geographical Society of Finland in the investigation of the Petsamo area, 11,000 sq. km., ceded to Finland in 1920, then virtually unknown territory excepting the coastal region. Author notes briefly 19th century work of Finnish scientists in Kola Peninsula and their visits to Petsamo. Government- and private institution-sponsored work there after 1920; the Geographical Society's proposal in 1926 to coordinate this work under direction of a Petsamo Committee drawn from several learned societies. The committee's program of investigations 1927-30 on a state grant, and its published results are indicated, also lines along which further investigations (sociological and ethnological) could be made in future. Summary in English.

**Copy seen:** DLC.

**24643. NICKUL, KARL.** Suenjel, Kolt-tain maa. (Terra, 1933. 45:1, p. 68-85, illus., maps) **Title tr.:** Suenjel, the land of the Skolt Lapps.

Contains description of the natural characteristics of this area drained by the Lutto (about 68°30'-50' N. 30°-31° 25' E.); the nomadic Skolt Lapps, their persisting traditional culture; their new winter village with school, government-sponsored at Suenjel (Finnish: Suonikylä, Russian: Songel'sk); their reindeer and fishing economy and the nomadic way of life it entails. Author notes probable effects of the winter village in modifying the traditional social organization and nomadic customs of these Lapps.

Summary of text and notes to ten photographic illus. in English.

**Copy seen:** DLØ.

**24644. NICOL, DAVID, 1915-** Recent species of the veneroid pelecypod *Arctica*. (Washington Academy of Sciences. Journal, Mar. 1951. v. 41, p. 102-106, illus., map)

Synonymy, description, geographic distribution and ecology of a living relict bivalve mollusc, a boreal genus which occurs on sandy mud or mud bottoms at water temperatures between 0°-19° C. and is recorded from waters including those of Iceland, northern Norway, Barents and White Seas. Bibliography (19 items).

**Copy seen:** DSI-M.

**24645. NIELSEN, EIGIL.** On new or little known Edestidae from the Permian and Triassic of East Greenland. København, C. A. Reitzel, 1952. 55 p. illus.

(Meddelelser om Grønland. Bd. 144, no. 5)

Contains full descriptions, revision of the taxonomy, and discussion of the Permian bradydont fishes of the family Edestidae, including two new genera and one new species, also one new genus and species from the Triassic of East Greenland, mainly from the region of Cape Stosch, Margrethe valley, and Traill Island. The material was collected during the Danish Expeditions to East Greenland, 1926-39, under the leadership of Lauge Koch. Bibliography (29 items).

**Copy seen:** DGS.

**24646. NIELSEN, ERIK W.** A determination of the subsidence of the land at Angmagssalik. København, C. A. Reitzel, 1952. 11 p. illus. (Meddelelser om Grønland. Bd. 136, no. 2, [pt. 1])

Subsidence of the land in relation to mean sea level is calculated to amount to 2.7 mm. per year at a fixed point on Gustav-Holms Ø (Tasissárssik kitleq), a peninsula east-northeast of Angmagssalik, East Greenland, at 65°37' N. 37°24' W. The calculation is based on tidal observations of 1950, and those made in 1885 by Holm and Garde's East Greenland expedition of 1883-85. Bibliography (8 items).

**Copy seen:** DGS.

**24647. NIELSEN, FINN.** De nye Grønlandslove. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 2, p. 321-34, incl. 2 p. of illus.) **Title tr.:** The new statutes for Greenland.

Brief analysis of eight laws passed May 27, 1950 regarding: (1) territorial council and communal administration, (2) official treasury, (3) church, (4) schools, (5) public health, (6) trade, (7) support of industry, and (8) industrial loan fund.

**Copy seen:** DSI-M.

**24648. NIELSEN, FINN.** Planned reforms in Greenland. (Arctic, May 1951. v. 4, p. 12-17, illus.)

"Brief account of main changes involved" in the population policy, administration and government, trade conditions, health service, judicial administration, education and cultural conditions in Greenland, under the new laws of May 1950.

**Copy seen:** DAI; DLC.

**24649. NIELSEN, KONRAD, 1875-** A curious word in earlier Lapp dictionaries. (Suomalais-ugrilainen seura. Toimituksia, 1950. v. 98, p. 245-54)

In Leem's Lapp lexicon, a word *shjilla*

appears which, as the author shows, was taken from the adverbially-used Finnish plural adessive forms in *silla*, and became an adverbial termination.

*Copy seen:* DLC; InU.

**24650. NIELSEN, KONRAD, 1875- .** Forschungsreisen. (Finnisch-ugrische Forschungen. Anzeiger, 1911. Bd. 11, no. 1-3, p. 31) *Title tr.:* Expeditions.

*Contains* note on his trip sponsored by the Norwegian Foreign Office, to the Finnish Lapps in the districts of Utsjoki, Inari, Enontekiö, and Muonio, in Feb.-May, 1911. He studied their reindeer breeding (including terminology), settlements, and Lapp loanwords in Finnish.

*Copy seen:* DLC; InU.

**24651. NIELSEN, KONRAD, 1875- .** Laerbok i Lappisk. Oslo, Brøggers, 1926-1929. 3 pt.: xii, 454; viii, 200; 7 l., 399 p. *Title tr.:* Textbook of the Lapp Language.

*Contains* a grammar, texts, and a vocabulary designed for practical teaching purposes.

*Copy seen:* InU.

**24652. NIELSEN, KONRAD, 1875- .** Lappalaisia murteita tutkimassa; matkakertomus Norjan ja Suomen Lapista. (Suomalais-ugrilainen seura. Aikakauskirja, 1904. v. 22, no. 3, p. 2-24) *Title tr.:* Research on the Lappish dialects; report of a trip to the Lapps of Norway and Finland.

*Contains* account of the author's travels sponsored by the Finno-Ugric Society June-Aug. 1902, visiting Troidfjord, Sirma, Utsjoki, Karasjoki, and Polmak to study the local Lapp dialects.

*Copy seen:* DLC; InU.

**24653. NIELSEN, KONRAD, 1875- .** Lappalaisten murteiden tutkimisesta. (Suomalais-ugrilainen seura. Aikakauskirja, 1903. v. 21, no. 4, p. 1-12) *Title tr.:* Investigation on the Lappish dialects.

*Contains* lecture summarizing the work done in this field up to that time.

*Copy seen:* DLC; InU.

**24654. NIELSEN, KONRAD, 1875- .** Lappische Lexikographie. (Suomalais-ugrilainen seura. Aikakauskirja, 1933. v. 46, no. 3, p. 39-51) *Title tr.:* Lappish lexicography.

*Contains* a review of the more important Lapp dictionaries since 1780, including plans for author's own dictionary then in progress (see *Arctic Bibliography*, No. 12272).

*Copy seen:* DLC; InU.

**24655. NIELSEN, KONRAD, 1875- .** Lappisches Wörterbuch nach den Dialekten von Polmak, Karasjok und Kautokeino. Heft I. Helsingfors, 1913. 56 p. (Suomalais-ugrilainen seura. Lexica Societatis Fennougricae I) *Title tr.:* Lapp dictionary according to the dialects of Polmak, Karasjok, and Kautokeino.

*Contains* an explanation of transcription and arrangement (on the covers), and Lappish words starting with a, ä, and b (to "bad'dadäd'dät"). This is a German edition (no more published) of the first part of the author's *Lappisk ordbok*, 1932-1938 (see *Arctic Bibliography*, No. 12272).

*Copy seen:* InU.

**24656. NIELSEN, KONRAD, 1875- .** Lappiske studier. Oslo, Brøggers, 1945. 6 p. 1., 231 p. illus. port. (Studia Septentrionalia, v. 1) *Title tr.:* Lapp studies.

*Contains* a selection of 15 of Nielsen's minor papers previously published (in Finnish, Norwegian, Hungarian, German or English) in various periodicals. The first two articles (in Finnish) deal with Lapp dialects: a survey of investigations of Lapp dialects prior to 1902 (p. 1-13) and (p. 14-36) an account of author's stay in Finnmark in 1903 with the chief results of his investigations. A third dialect study (in Norwegian, p. 143-61) concerns the mountain dialect in Varanger, and is based upon material collected in 1926. Two studies on loan words deal with: (one, p. 57-64) a group of primitive Scandinavian trisyllabic words, which have become bi-syllabic in Lapp; and (the other, p. 178-84) a group of words from the terminology of the reindeer and its herding. Further there are two studies on place names (p. 84-104, 115-42) and four philological papers dealing with various themes: the origin of attributive forms (in English, p. 199-209), the third person singular pres. (in German, p. 105-114), the relatively long stem-consonant in a special group of verbs (in Hungarian, p. 210-18), and the partitive in Finnmark-Lapp (p. 162-77). An article dealing with the history of Lapp lexicography (p. 185-98) gives detailed information regarding author's own works. A survey is given (in Norwegian, p. 65-84) of scientific investigation of the Lapps as a whole. Two ethno-linguistic papers investigate: the origin of the Lapp turf hut (in Norwegian, p. 37-56, 8 illus.), and the Finnmark-Lapp *lainas*, a linguistic contribution to the history of the Lapp shoe (in English, p. 219-28).

*Copy seen:* DLC; InU.

**24657. NIELSEN, KONRAD, 1875-** . A note on the origin of attributive forms in Lapp. (Suomalais-ugrilainen seura. Toimituksia, 1933. no. 67, p. 296-307)

**Copy seen:** DLC; InU.

**24658. NIELSEN, KONRAD, 1875-** . The use of pronominal adverbs of place with the termination *-ggo* in Finnmark Lapp. (Finnisch-ugrische Forschungen, 1946. Bd. 29, p. 32-36)

Adverbs of this category show a peculiar duality of meaning, signifying partly *along which way* the movement goes, and partly *where* a certain object is placed.

**Copy seen:** DLC; InU.

**24659. NIELSEN, KONRAD, 1875-** . Die wissenschaftliche Bedeutung des Lappischen. (Finnisch-ugrische Forschungen, 1913. Bd. 13, p. 186-206) **Title tr.:** The scientific importance of the Lapp language.

*Contains* remarks on the importance of Lapp phonetics to the linguistic research; the stage shift in the Lapp language and its importance to the Finno-Ugric linguistics. The Lapp language of today is close to the Finnish; many place names and Lapp words connected with reindeer breeding, however, are unknown to any other Finno-Ugric language and they are considered as belonging to the "proto Lappish" language (Wiklund). Lapp loanwords from the old Nordic, Germanic and Baltic languages preserved very old forms and mythological ideas. "Proto Lappish" was probably a Samoyedic dialect which the Lapps brought together with their technique of reindeer breeding from the East to Fennoscandia.

**Copy seen:** DLC; InU.

**24660. NIELSEN, KONRAD, 1875-** . Zur Aussprache des Norwegisch-lappischen, I. (Suomalais-ugrilainen seura. Aikakauskirja, 1902. v. 20, no. 1, p. 1-72) **Title tr.:** On the pronunciation of the Norwegian Lappish, I.

*Contains* detailed linguistic study of the pronunciation of vowels, diphthongs and consonants in Lappish dialects, both the popular speech and the literature language.

**Copy seen:** DLC; InU.

**NIELSEN, KONRAD, 1875-** , *see also* Qvigstad, J. K. Sprache Tornaeus *Manuale lapponicum*, 1933. No. 25324.

**24661. NIELSEN, PEDER.** Contributions to the knowledge of the palaearctic Tipulidae. (Notulae entomologicae, 1929. v. 9, no. 2, p. 48-50, illus.)

*Contains* a description of a new crane fly, *Nephrotoma stigmatica* n. sp. found at Dudinka, lower Yenisey valley, and critical notes on *Dicranomyia hyalina* and *D. dislens* native to Bolsheretsk region, Kamchatka Peninsula.

**Copy seen:** DLC; MH-Z.

**24662. NIELSEN, PEDER.** *Limonia* (*Dicranomyia*) *vibei* n. sp. from Grønland (Dipt. Tipul.) Report no. 3 from the zootopographical investigation of Grønland. (Entomologiske meddelelser, 1951. Bd. 26, hefte 2, p. 185-186, illus.)

*Contains* a diagnosis of a new crane-fly, *Limonia* (*Dicranomyia*) *vibei* n. sp., collected by Chr. Vibe at Kapisigdlit (64°30' N.), West Greenland, in Aug. 1950.

**Copy seen:** MH-Z.

**24663. NIELSEN, SIGV.** Lappisk elementaerebog. Kristiania, Grøndahl, 1882. 4 l., 184 p. **Title tr.:** Elementary textbook of the Lapp language.

**Copy seen:** InU.

**NIELSEN, THORKILD M.,** *see* Troelsen, J. C. Notes Pleistocene geology Peary Land. 1952. No. 26804.

**24664. NIEMELÄ, P.** Einige interessante Apidenfunde aus Finnland (Hymen., Apidae). (Notulae entomologicae, 1934. v. 14, no. 1-2, p. 30-35, illus.) **Title tr.:** Some interesting finds of Apidae (Hymen.) in Finland.

*Contains* critical notes on four species of bees occurring in Finland, including a comparative study of *Osmia inermis* and *O. uncinata*, the latter known from Kitilä, Kemi region, Finnish Lapland.

**Copy seen:** DLC; MH-Z.

**24665. NIEMI, TURO.** Anthropologische Untersuchungen über das Jochbein der Lappen. Helsinki, 1941. 59 p., illus. (Suomalainen tiedeakatemia, Helsingfors. Annales Academiæ Scientiarum Fennicæ, A35: 3) **Title tr.:** Anthropological investigations on the zygomatic bone of the Lapps.

*Contains*, on basis of study of 180 exhumed and partly damaged skulls: data on the size-ratios of the zygomatic (cheek) bone; its sutures; position and shape of the zygomatic arch; the asymmetry and variations of the cheekbone. Bibliography (37 items).

**Copy seen:** DLC.

**24666. NIEWENHUIS, A. W.** Die Ansichten der primitiven Völker über das Geschlechtsleben des Menschen. (Internationales Archiv für Ethnographie,

1927. Bd. 28, p. 139-52) *Title tr.:* The opinions of primitive peoples on the sexual life of men.

*Contains* (among others) brief notes on Eskimo, Yukaghir, and Koryak views of how a woman becomes pregnant and how the baby gets his soul while still in the mother's body (p. 145-46, 151).

*Copy seen:* DLC.

**24667. NIKIFOROV, A. I.** Chukotskii skazochnik i russkaya skazka. (*In:* Akademika nauk SSSR. Institut étnografii. Pamfati V. G. Bogoraza, 1865-1936, pub. 1937, p. 207-212) *Title tr.:* Chukchi storyteller, and Russian fairy tale.

In spite of the Chukchis' contact with the Russians since the 17th century, less than five percent of Chukchi fairy tales are borrowed from the Russian, the rest being typically Paleo-Asiatic, and the borrowed Russian material strongly modified. The author offers as an example a tale, a literary vignette, where a kind of protest against borrowing appears, as an act of dissimulation instead of assimilation.

*Copy seen:* DLC.

**24668. NIKIFOROV, G., and N. SUL'E.** V kul'turnykh ochagakh Krafnego Severa. (Kul'turno-prosvetitel'naya rabota, Jan. 1952. v. 13, no. 1, p. 20-24, illus.) *Title tr.:* In the homes of culture of the Far North.

*Contains* an account of the Yamalo-Nenetskiy and Khanty-Mansiyskiy National Districts (lower Ob' and Irtysh regions where Samoyeds, Ostyaks and Voguls are native groups) with respect to their cultural and other conditions under the tsars; their present status regarding elementary, intermediate and technical education; libraries; theaters, clubs, houses of culture, and "red tents" (krasnyy chum, local political organizations to proselytize communism in native groups). An outline is given of the cultural bases (kul'tbaza), their distribution and organization, the scope and character of their work; sketch of sports and "olympiads;" political work and enlightenment, etc.

*Copy seen:* DLC.

**24669. NIKIFOROV, V. F.** Rechnye porty. Dopushcheno Ministerstvom vysshego obrazovaniya SSSR v kachestve uchebnika dlya éksploatafionnykh fakul'tetov vtuzov rechnogo transporta. Moskva, Izd-vo ministerstva rechnogo flota SSSR, 1948. 447 p., illus., tables. *Title tr.:* River ports. Authorized by

the Board of Higher Education of the U.S.S.R. as a textbook for the faculties of exploitation of higher technical schools of river transport.

*Contains* chapters on the plan of a river harbor, its purposes and principal elements; harbor equipment; hydro-technical harbor buildings; principles of projecting and technical exploitation of the harbor; appendix, with tables on handling various cargoes, etc.

Includes throughout the text, various direct or indirect references to arctic areas; the winter régime of rivers (p. 57-59); timber-harbors, etc. (p. 83, 167-70, 223-88); structures protecting from ice floes, etc. (p. 353-60). Bibliography (about 50 items).

*Copy seen:* DLC.

**24670. NIKITIN, A. A., and I. P. SUVOROV.** O svoistvakh drevesin chermukh SSSR. (Akademika nauk SSSR. Botanicheskii institut. Trudy, seriya 5, Rastitel'noe syr'e, 1949. vyp. 2, p. 224-39, illus.) *Title tr.:* On the properties of the heartwoods of chokeberries (*Padus*) of the U.S.S.R.

*Contains* brief descriptions with notes on habitat and geographic distribution of three species of choke-berries native to the U.S.S.R.; data on physical and mechanical properties of their heartwoods with notes on their uses; a key for the determination of these species by microscopic characteristics of their heartwoods; based on the study of some specimens of *Padus asiatica* from Kamchatka and *P. racemosa* from the estuary of Pechora River.

*Copy seen:* MH-A.

**24671. NIKITIN, G. A.** Narodnoe izobrazitel'noe iskusstvo finnov-suomi. Po materialam gosudarstvennogo muzeia étnografii v Leningrade. (Sovetskaya étnografiya, Sbornik statei, 1941. t. 5, p. 126-39, 9 illus.) *Title tr.:* Pictorial folk art of the Finns. Based on material in the State Museum for Ethnography in Leningrad.

*Contains* description on ornaments and objects of art: carpets, knitted articles, embroideries, wood carvings, leather work, ornamented implements, furniture, knives, etc. Most of these types are illustrated from the Museum's collection. Summary in French.

*Copy seen:* DLC.

**24672. NIKITIN, S. M.** Zaochnye konsultatsii po radio. (Sovetskaya khirurgiya, 1936. v. 6, no. 12, p. 1024-31) *Title tr.:* Medical consultations by radio.

Stressing the difficulty of getting a face-to-face consultation among doctors under arctic conditions, the author (director of the District Hospital on Dikson Island) stresses the importance of radio for this purpose. He quotes a series of inquiries he received and the answers he gave, by way of radio. A discussion of the cases is included.

**Copy seen:** DLC.

**24673. NIKKILÄ, EINO.** En satakundensisk äsping och dess Eurasiska motsvarigheter. (Folk-Liv, 1947. v. 11, p. 33-46, 2 illus., 4 plates) **Title tr.:** A boat made of a single aspen log in Satakunta [Finland] and its Eurasian equivalents.

This type of boat (*haapio*) was known throughout Finland in olden times. In northern and western Russia, where many Finno-Ugric peoples live, the aspen boat is still in use, and as it is among many peoples in Siberia, as far as the Pacific coast.

**Copy seen:** InU.

**NIKOLAEV, I. G.,** see Samoilovich, R. L., & others. *Geografiâ Arktiki*. 1937. No. 25812.

**24674. NIKOLAEV, N. N.** Olenovodcheskii trest na Kraĭnem Severe. (Karakulevodstvo i zverovodstvo, Jan.-Feb. 1952. god 5, no. 1, p. 49-52, illus.) **Title tr.:** Reindeer-breeding trust in the far North.

Contains an account of a trust created in 1951 at Salekhard (66°30' N. 66°40' E.) by fusion of four existing sovkhoses. The trust purposes meat production, high-breeding of animals for sale to other farms, fur and leather production, breeding of fur-bearing animals for sale to new fur farms; raising of fur-bearers on the by-products of reindeer farming and fisheries, and developing dairy and fruit production for Salekhard. Some aspects of present reindeer farming are described in detail.

**Copy seen:** DLC.

**24675. NIKOL'SKAÏA, M. M.** Khal'idsy fauny SSSR. (Chalcidoidea). Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1952. 574 p. illus. (592 fig.) (In: *Akademiiâ nauk SSSR. Opreĭdeliteli po faune SSSR*. no. 44) **Title tr.:** Chalcid flies of the fauna of the U.S.S.R.

Contains in the introduction (p. 13-74), characterization of the superfamily Chalcidoidea of chalcid flies, a morphological sketch, data on dimorphism, develop-

ment, biology, parasitism, phagocytism, feeding habits, paleontology, economic importance (some are injurious to plants, some (entomophagans) are very useful); and a bibliography (ca. 250 items). In the special part (p. 75-544) are tables for the determination of families, genera and species (about 400 genera and 1200 species) with literature citations and data on biology and geographic distribution, an index of Latin names (p. 545-65), and a list of hosts (p. 566-74). Includes some species (fam. Trichogrammatidae and Mymaridae) native to northern regions of the U.S.S.R.

**Copy seen:** DLC.

**24676. NIKOL'SKIÏ, ALEKSANDR MIKHAILOVICH, 1858-** Presmykashchiesia i zemnovodnyiâ Rossiiskol Imperii. S.-Peterburg, Izd-vo Akademii nauk, 1905. II, 517 p., illus., plates 1-2. (Akademiiâ nauk SSSR. Zapiski, VIII seriâ. Fizikomatematicheskoe otdelenie, t. 17, no. 1) **Title tr.:** Reptiles and amphibians of the Russian Empire.

Contains a critical revision of all known reptiles and amphibians of Russia, with tables for the determination of the families, genera and species, and descriptions of 148 species of turtles, lizards and snakes, with synonymy, citation of specimens, critical notes and data on distribution in Russia. A general survey of Russian herpetological fauna is given (p. 442-51), also a survey by the regions (p. 451-61) and additions, (p. 462-95). Bibliography (about 300 items) and index of Latin names are appended. Several species included in this study are native to northern region of Russia.

**Copy seen:** MH-Z.

**24677. NIKOL'SKIÏ, ALEKSANDR MIKHAILOVICH, 1858-** Sibirskii osetr. (*Acipenser stenorrhynchus*, n. sp.). (Akademiiâ nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1896, t. 1, no. 4, p. 400-405) **Title tr.:** Siberian sturgeon.

Contains a Latin diagnosis of a new species of Siberian sturgeon (*Acipenser stenorrhynchus*, n. sp.) native to the lower Yenisey River and some other rivers emptying into arctic seas, with measurements and critical notes.

**Copy seen:** DLC; MH-Z.

**NIKOL'SKIÏ, ALEKSANDR MIKHAILOVICH, 1858-** see also Gersfenshtein,

S. M. Ueber neue Fische. 1896. No. 22088.

**24678. NIKOL'SKIĬ, I. M.** Spravochnaia knizhka Avtonomnoi Karel'skoi Sotsialisticheskoi Sovetskoi Respubliki. 1-a chast' kraevedcheskoi khrestomatii "Karel'skiĭ kraj". Petrozavodsk, 1929. 250, viii, p. *Title tr.:* Reference book of the Karelian ASSR. Part I of a regional study "The Karelian Land".

A compendium containing information on the physical geography and nature of the land; population data; administration and political organization; professional occupational data; finance, industry and electrification; agriculture, forests and fisheries; trade, transportation and communication; education and culture; public health and insurance; the city of Petrozavodsk (61°49' N. 34°20' E.).

*Copy seen:* DLC.

**NIKOL'SKIĬ, N. N.,** *see* Leningrad. Vsesoiuznyi arkticheskii institut. Rezul'taty nabl'den. polimarnykh magnitnykh observ. 1934-35. 1938. No. 23772.

**NILSON, HUGO WALDEMAR, 1901-**, *see* Sanford, F. B., & H. W. Nilson. Vitamin A & D potencies of the liver oil of Pacific cod. 1949. No. 25832.

**24679. NIORADZE, GEORGIĬ KAPLANOVICH, 1886-**. Der Schamanismus bei den sibirischen Völkern. Stuttgart, Strecker u. Schröder, 1925. viii, 121, front., illus. plates, map. *Title tr.:* Shamanism among the peoples of Siberia.

Contains in chapter 1 (p. 10-45) the fundamental features of shamanism as it appears among the aboriginal peoples of Siberia, including the cult of the dead, the concept of a soul in living men, the soul after death, ghosts and evil spirits and their possession of physical objects, plants and animals (animism), the causes of man's mishaps, losses and death. In chapter 2 (p. 46-104) is discussion of personal and family shamans, their psychology, the role of women in shamanism, qualifications, training and initiation of shamans, their ceremonial dress and ritual objects, shamanistic methods and exercises (callings), mining and poetry in the shamans' art, and their conviction of their own power; social standing and influence of shamans and people's belief in their ability to control malignant spirits; Bibliography (119 items, p. 109-114), index of names and terms, p. 115-121.

*Copy seen:* MH.

**NISKANEN, ERKKI,** *see* Heiskanen, V. A., & E. Niskanen. World maps. 1941. No. 22500.

**24680. NIVANKA, EINO.** Bibliographie der finnisch-ugrischen Sprachkunde in Finnland bis zum Jahre 1899. (Finnisch-ugrische Forschungen, Anzeiger, 1944. Bd. 28, p. 1-99) *Title tr.:* Bibliography of Finno-Ugric linguistics in Finland to the year 1899.

Contains listing not merely of linguistic works, but also those dealing with ethnology and folklore, and travelers' narratives, etc. Includes works on Samoyeds (nos. 233-34), Lapps (nos. 1585-1628), Zyryans (nos. 1655-64), Voguls (nos. 1680-84), and Ostyaks (nos. 1685-1689).

*Copy seen:* DLC; InU.

**24681. NOBILE, UMBERTO, 1885-**. Addio, "Malyghin!" Con i Russi, fra i ghiacci della Terra Francesco Giuseppe; seguito da una nota storica sulla scoperta ed esplorazione di quella terra. [1. ed. Milano] Mondadori [1948] xiv, 219 p., illus., ports., maps (part fold.) *Title tr.:* Good-bye Malygin! With the Russians on the ice of Franz Josef Land.

Account in diary style of the author's trip aboard the ice-breaker Malygin with the Russian expedition led by Vize in 1931 to Franz Josef, making stops at various islands: Nordbrück, Hooker, Karla Aleksandra, Rudolf, Pritchett, Maklintonka. Appended (p. 151-203) is an historical outline of the discovery and exploration of the Franz Josef Islands with notes on the expeditions there (the Tegetthoff 1872-74, Willem Barents 1879, Leigh Smith 1880-82, Jakson-Harmsworth 1894-97, Nansen 1896, Wellman, 1898, Duke of the Abruzzi 1899, Ziegler-Baldwin 1901-02, Ziegler-Fiala 1903, Al'banov 1912, G. Sedov, 1912-14, the Sedov 1929-30, the Malygin 1931).

*Copy seen:* DLC.

**24682. NOE-NYGAARD, ARNE, 1908-**, and A. ROSENKRANTZ. Landets opbygning og udformning. (In: Birket-Smith, K., and others. Grönlands bogen, 1950. v. 1, p. 85-116, illus. incl. 9 map diagrs.) *Title tr.:* Geologic and physiographic history.

With the aid of map diagrams to show areas mentioned in the text, the author briefly describes Greenland's geologic formations from basement complex to Quaternary, and the physical processes which shaped the landscape of today; with note on continental drift.

*Copy seen:* DSI; M.

**24683. NOE-NYGAARD, ARNE, 1908-**

. A new orogenic epoch in the Precambrian of Greenland. (International Geological Congress. 18th, London, 1948, Report, 1952. pt. 13, p. 199-204, map)

Between 66°-69° N. in West Greenland, the remnants of two old chains of folded mountains have been recognized. Author reports here results of petrologic and petrogenic studies of the northern younger chain, called the "Nagssugtoides," which is characterized by three zones divided according to degree of regional metamorphism in the Precambrian basement complex.

**Copy seen:** DGS.

**24684. NOE-NYGAARD, ARNE, 1908-**  
and others. Notes on Danish scientific work since 1939. (Arctic, May 1951. v. 4, p. 50-56, 4 sketch maps)

Brief tabulated information on personnel, program, and locality of field investigations in Greenland on: geology by A. Noe-Nygaard, zoology by C. Vibe, botany by T. W. Böcher, and archeology by E. Holtved. Includes note on Geological Survey of Greenland, established 1946.

**Copy seen:** DAI; DLC.

**24685. NOICE, HAROLD H., 1895-**  
Arctic reminiscences. (American wildlife, Oct. 1922. v. 11, no. 4, p. 14-15, illus.)

Story of the author's first meeting with V. Stefansson in 1915, after the latter as leader of the Canadian Arctic Expedition 1913-1918 had been traveling in the western Canadian islands for a year and a half, living off the land.

**Copy seen:** DI.

**24686. NOICE, HAROLD H., 1895-**  
Shall the musk-ox vanish? (American wildlife, Apr. 1923. v. 12, no. 2 p. 12-14, illus.)

Remarks on near extinction of caribou and musk oxen, the tardy protection of game, instituted by Canadian and American authorities, and a strong plea for conservation measures.

**Copy seen:** DI.

**24687. NORDENSKIÖLD, HEDDA.**  
The somatic chromosomes of some *Luzula* species. (Botaniska notiser, 1949. Häfte 1, p. 81-92)

Contains a study of chromosome numbers of thirteen species of *Luzula* wood rushes from various parts of Sweden, including *L. spicata*, *L. arctica* and *L. parviflora* from Swedish Lapland; their

chromosome numbers form a polyploid series with three as the basic number.

**Copy seen:** DLC; MH-A.

**NORDENSKIÖLD, N. K., see Moberg, A. Sammandrag klimat. anteckn. Finland 1878-93. 1879-94. No. 24399.**

**24688. NORDENSKJÖLD, NILS OTTO GUSTAF, 1869-1928, and L. MECKING.**  
The geography of the polar regions, consisting of a general characterization of polar nature, by Otto Nordenskjöld, and, a regional geography of the Arctic and the Antarctic, by Ludwig Mecking. New York, American Geographical Society, 1928 [i. e. 1950]

vi, 359 p., illus., maps. (American Geographical Society of New York. Special publication no. 8) Originally published by the Society in 1928, "reproduced by the Intelligence Division, Department of the Army. October 1947," and reissued by the Society in 1950. Pt. 1 is a translation by Ernst Antevs of Otto Nordenskjöld's *Polarnaturen*, Stockholm, 1918 (xii, 143 p., illus. copy at MH, NN); pt. 2 is a translation by W. L. G. Joerg and Marion Hale of Ludwig Mecking's *Die Polarländer*, Leipzig, 1925 (see *Arctic Bibliography*, No. 11164).

A comprehensive, authoritative monograph. Part I, *Polar nature: a general characterization*, has chapters on: climate, ice, and the causes of polar conditions; soils and land forms; vegetation and animal life; limits and natural divisions of the arctic areas. Bibliography (24 items).

Pt. II, *The polar regions, a regional geography*, has sections on the region as a whole (p. 95-125): its exploration, structure — horizontal and vertical, surface cover, climate, plant cover, animal life, man. Then follows (p. 126-281) a description of the individual regions of the Arctic: the arctic seas, Svalbard, Russian arctic islands and mainland, Bering Sea, Alaska, Canadian mainland and islands, Greenland, Jan Mayen. Finally (p. 282-325) the Antarctic is treated similarly and an extensive bibliography added.

**Copy seen:** DLC.

**24689. NORDGAARD, OLE, 1862-1931.**  
Bryozoa in the papers and collections of Dr. J. E. Gunnerus. (Norske videnskabers selskab, Trondhjem. Skrifter, 1917, pub. 1918, nr. 5, p. 1-5)

Contains critical notes on some bryozoans described or collected by Bishop

Gunnerus, including some species native to northern Norway, and their interpretation in the light of the modern terminology; bibliographical footnotes.

**Copy seen:** DLC; MH.

**24690. NORDGAARD, OLE, 1862-1931.** Oplysninger om seiens vekst og aate. (Bergen, Norway. Museum. Aarbok, 1901, pub. 1902, p. 1-20, [1]) **Title tr.:** Observations on the growth and feeding of the coalfish.

**Contains** a study of the stomach content of the young coalfish (*Gadus virens*), with a list of specimens taken in various places including Lofoten Islands and Vesterålen, their dimensions and animal forms found in the stomachs. Summary in English.

**Copy seen:** MH-Z.

**24691. NORDGAARD, OLE, 1862-1931.** Systematisk fortegnelse over de i Norge hidtil observerede arter af marine Polyzoa. I. Cheilostomata. II. Cyclostomata. (Bergen, Norway. Museum. Aarbok, 1894-95, pub. 1896, no. 2, p. 1-34, 2 plates; (II) 1896, pub. 1897, no. 2, p. 1-6) **Title tr.:** A systematic list of marine Polyzoa hitherto observed in Norway. I. Cheilostomata. II. Cyclostomata.

**Contains** (in pt. I) a systematic list of about 100 species of marine polyzoans of the suborder Cheilostomata (two new species described in English) known from Norwegian waters, including at least 35 species native to northern regions of Norway; pt. II contains a list of 24 marine polyzoans, including 15 from northern Norwegian waters.

**Copy seen:** MH-Z.

**24692. NORDHAGEN, ROLF, 1894- .** Om *Arenaria humifusa* Wg. og dens betydning for utforskningen av Skandinaviens eldste floraclement. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1935, pub. 1936, nr. 1, p. 1-183, illus. (34 figs.), plates I-II) **Title tr.:** On *Arenaria humifusa* and its significance for the study of the earliest elements of the Scandinavian flora.

**Contains** in the special part (p. 7-49) a discussion of the species of herbaceous genus *Arenaria*, *A. humifusa*, *A. ciliata* var. *humifusa* and *A. cylindrocarpa* and their synonyms, an emended description of *A. humifusa* with a list of synonyms and data on total distribution (Scandinavia, Kola Peninsula, West Greenland, Ellesmere Island and Labrador), a synopsis of six subspecies of collective species *A. ciliata* with data on distribution and

localities (Novaya Zemlya, Vaygach Island, Kolguyev Island and Svalbard); In the general part (p. 50-174) is a discussion of the systematic position of *A. humifusa* in Scandinavian and European flora; a list of 12 arctic species of Scandinavian alpine flora; remarks on the importance of *A. humifusa* for the theory of interglacial survival and an attempt at a tentative reconstruction of the centers of survival in various regions of Norway (in Nordland and Finnmark), Kola Peninsula and Swedish Lapland; data on migration and species formation in the Quaternary period, and a discussion of origin (American or European species?) Bibliography (164 items).

**Copy seen:** MH-Z.

**24693. NORDHAGEN, ROLF, 1894- .** Studien über die maritime Vegetation Norwegens I, die Pflanzengesellschaften der Tangwälder. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1939-40, pub. 1940, nr. 2, p. 1-123, illus., plates 1-18, fold. tables 1-2) **Title tr.:** Studies on maritime vegetation of Norway I, plant associations of the sea-weed beds.

**Contains** an ecological study of the plant associations growing on the wrack beds along the western coast of Norway, with data on plant formations of various regions, lists of typical plants, characteristics of the draft beds, statistical data, a survey of zonation and plant succession, some observations on the vegetation of brackish waters, tabulated data (fold. tables) and a bibliography (67 items). This study was based partly on material from Varanger Peninsula, northern Norway.

**Copy seen:** MH-Z.

**24694. NORDHAGEN, ROLF, 1894- .** Studien über die monotypische Gattung *Calluna* Salisb. II. Ein Beitrag zur Bicornes-Forschung. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1938, nr. 1, p. 1-70, illus., text map) **Title tr.:** Studies on monotypic genus *Calluna* Salisb. II. A contribution to the investigation of Bicornes.

**Contains** the results of the study of the heather, *Calluna vulgaris*, distributed in northern Scandinavia, Kola Peninsula and northern Russia, with data on its systematic position, phylogenetic characteristics and geographic distribution; discussion of the importance of intermediary leaves for the study of this monotypic genus; phytogeographic problems encountered in the study of the subfamily

Ericoideae and a comparison with other related genera; bibliography (132 items). The first part of this paper does not contain arctic material.

**Copy seen:** MH-Z.

**24695. NORDHAGEN, ROLF, 1894-** Studien über die skandinavischen Rassen des *Papaver radicatum* Rottb. sowie einige mit denselben verwechselte neue Arten. Vorläufige Mitteilung. (Bergen, Norway. Museum. Aarbok; naturvidenskapelig rekke, 1932. nr. 2, p. 1-50, illus., plates 1-5) **Title tr.:** Studies on Scandinavian races of *Papaver radicatum* Rottb. and on some new species confused with it.

**Contains** a critical revision of Scandinavian races of a northern poppy, *Papaver radicatum*, with a key, systematic characteristics, data on polymorphism and hybridization and descriptions of three new species and five new subspecies and varieties, including *P. lapponicum* (Kola Peninsula, Tromsø and Finnmark, Norway) and *P. dahlianum* (Finnmark) n. ssp. and two new subspecies and one variety native to northern Norway and Swedish Lapland.

**Copy seen:** MH-Z.

**24696. NORDHAGEN, ROLF, 1894-** Versuch einer neuen Einteilung der subalpinen-alpinen Vegetation Norwegens. (Bergen, Norway. Museum. Aarbok; naturvidenskapelig rekke, 1936, pub. 1937. nr. 7, p. 1-88, 2 fold. tables) **Title tr.:** An attempt of new subdivision of the subalpine and alpine vegetation of Norway.

**Contains** an ecological study of the alpine and subalpine regions of Norway, based on the author's own investigations and on published works of other plant ecologists; with extensive data on various plant formations, their relationship and succession, preference for certain types of soil; lists of typical plants and statistical data; based partly on material from Nordland, northern Norway, and Torne Lappmark, Swedish Lapland. Bibliography (66 items). **Copy seen:** MH-Z.

**24697. NORDLI, OTTAR.** Dinoflagellates from Lofoten. (Nytt magasin for naturvidenskapene, 1951. Bd. 88, p. 48-55, illus.)

**Contains** description of *Phalacrocoma braarudii* and *Goniaulax borealis* n. spp. found in West Fjord in the Lofoten area and notes on *G. mazimum* nom. prov. and four other dinoflagellates from the same region. **Copy seen:** DGS; MH-Z.

**24698. NORDMAN, ADOLF FR.** Bidrag till kännedomen om Utsjoki sockens (Li) lepidoptera. (Notulae entomologicae, 1941. v. 21, no. 3, p. 105-112; 1941, pub. 1942, v. 21, no. 4, p. 113-29) **Title tr.:** A contribution to the knowledge of the Lepidoptera of Utsjoki parish, Inari Lappmark.

**Contains** a list of 182 lepidopters, based on the literature sources and the author's investigation in the summer of 1937, of Lepidoptera fauna of Utsjoki parish, the northernmost region of Finnish Lapland; data on biology of *Erebia medusa polaris* (p. 111-12) and description of the larva of *Mamestra (Anaria) bohemanii* (p. 114-15), and *Cidaria polata* (p. 118-19). Summary in English.

**Copy seen:** DLC; MH-Z.

**24699. NORDMAN, ADOLF FR.** *Sophronia gelidella* n. sp. from Kilpisjärvi in Finnish Lapland. (Lepidoptera, Gelechiidae). (Notulae entomologicae, 1941. v. 21, no. 1, p. 21-22, illus.)

**Contains** a diagnosis of a new moth, *Sophronia gelidella* n. sp. found in Kilpisjärvi, in the Enontekis region of Finnish Lapland (Lapponia enontekiensis); male and female specimens.

**Copy seen:** DLC; MH-Z.

**24700. NORDMAN, ADOLF FR.** En sydlig fyndort för orthopteren *Podisma frigida* Boh. (Notulae entomologicae, 1942. v. 22, no. 3-4, p. 174-75) **Title tr.:** A southerly locality for an orthopteran, *Podisma frigida* Boh.

**Contains** a survey of geographic distribution of *Podisma frigida*, an orthopteran known from Finnish and Russian Lapland, Obdorsk region in western Siberia, and Verkhoyansk in eastern Siberia, found by M. Ivashintsev in Kuolemajärvi, Russian Karelia, a southerly location for this arctic species.

**Copy seen:** DLC; MH-Z.

**24701. NORDMAN, ADOLF FR.** Till kännedomen om utvecklingsstadierna hos nordiska lepidoptera. (Notulae entomologicae, 1942. v. 22, no. 1-2, p. 87-96; no. 3-4, p. 97) **Title tr.:** A contribution to the knowledge of developmental stages of northern lepidopters.

**Contains** descriptive notes on larvae and pupae of seven species of northern lepidopters, occurring in Finnish and Swedish Lapland, and data on their biology; supplementary to the author's *Bidrag till kännedomen om Utsjoki lepidoptera*, 1941, q. v.

**Copy seen:** DLC; MH-Z.

**24702. NORDMAN, ADOLF FR.** *Tinagma dryadis* Sign. och *Adela rufifrontella* Ir. från Le Kilpisjärvi. (Notulae entomologicae, 1938. v. 18, no. 3, p. 116) **Title tr.:** *Tinagma dryadis* Sign. and *Adela rufifrontella* Ir. from Kilpisjärvi, Lapponia Enontekiensis.

Contains a report of the find of two lepidoptera, *Tinagma dryadis* and *Adela rufifrontella* in the Kilpisjärvi region of Finnish Lapland, with data on habitat; the latter species is also known from Petsamo and Kola Peninsula.

**Copy seen:** DLC; MH-Z.

**24703. NORDMANN, ALEXANDER von, 1803-1866.** Erstes Verzeichniss der in Finnland und Lappland bisher gefundenen Spinnen, Aranea. Helsingfors, 1862. 39 p. (Bidrag till Finlands naturkännedom, etnografi och statistik, 1863. Häft. 8) **Title tr.:** First list of spiders (Aranea) found in Finland and Lapland.

140 species belonging to 6 families are listed and localities (including many northern ones) are given.

**Copy seen:** DLC.

**24704. NORDMANN, ARTHUR von.** Uebersicht der bis jetzt in Finnland und Lappland vorgekommenen Voegelarten. (Moskovskoe obshchestvo, ispytatelei prirody. Büfleten', 1860. t. 38, no. 1, p. 1-54) **Title tr.:** A survey of birds hitherto known from Finland and Lapland.

Contains a systematic list of birds collected or observed by the author during his trips to the Muonioniska region of Finnish Lapland in 1853, and to Karelia and Solovetskiye Islands in the White Sea; with data on geographic distribution in Finland, Scandinavia and adjoining regions of Russia; includes many species native to Lapland and Kola Peninsula.

**Copy seen:** DLC; MH-A.

**24705. NORDQVIST, OSCAR FRITHIOF, 1858-** Die Calaniden Finlands. (Bidrag till kännedom af Finlands natur och folk, 1888. Heft 47, p. 191-275, plates 1-10) **Title tr.:** Calanidae of Finland.

Contains data on the distribution of crustaceans of the fam. Calanidae in the Baltic Sea and in 29 lakes of Finland (see table on p. 211-12), including 18 in the North (Kuusamo). Thirteen species are described with synonymy and critical notes; bibliography (37 items).

**Copy seen:** MH-Z.

**24706. NORDQVIST, OSCAR FRITHIOF, 1858-** Laxens uppstigande i Finlands och norra Sveriges elfvar. Statistiskt bidrag till laxens biologi. Helsingfors, 1904-1905. 58 p., 27 fold. plates (tables, diagrs.). (Fennia, 22:2) **Title tr.:** The ascent of salmon into the Rivers of Finland and northern Sweden. Statistical contribution to the biology of the salmon.

Report on observations from several stations, on the connection between air and water temperatures, water level, wind and sky, and the salmon run. None of the above factors was found to have any direct effect except the water level; the amount of fish caught increasing with the rise of the water. The problem of homing of salmon in the Baltic is also discussed.

**Copy seen:** DLC.

**24707. NORDQVIST, OSCAR FRITHIOF, 1858-** Some biological reasons for the present distribution of fresh-water-fish in Finland. Helsingfors, 1902-1903. 29 p. 6 fold. maps. (Fennia, v. 20, no. 8)

Contains an analysis of factors, mainly those of historic-geological and climatological nature, which the author believes are responsible for the present distribution of fresh-water fishes in Finland, several of them arctic forms. Bibliographical footnotes.

**Copy seen:** DLC.

**24708. NORDSTRÖM, ÅKE, and R. FORSIUS.** Über die Psammocharidae (Pompilidae) Finlands. (Notulae entomologicae, 1928. v. 8, no. 1, p. 1-13) **Title tr.:** On Psammocharidae (Pompilidae) of Finland.

Contains a critical revision of fossorial wasps (Psammocharidae) of Finland, with tabulated data on geographic distribution in natural regions of Finland including Lapland (60°30'-70° N.) and a systematic list of 47 wasps, including 5 species native to Finnish Lapland, with critical notes and data on distribution in Scandinavia and Russian Lapland.

**Copy seen:** DLC; MH-Z.

**NORDSTRÖM, ÅKE, see also Forsius, R., & Å. Nordström.** Zur Kenntnis d. Vespiden Finnlands. 1923. No. 21877.

**24709. NORDSTRÖM, FRITHIOF, 1882-** Bidrag til kännedomen om Sveriges dagfjärilar. (Entomologisk tidskrift, 1918, Årg. 39, häft. 3-4, p. 298-321, illus.; 1919, Årg. 40, häft. 2-4,

p. 120-42, illus.) **Title tr.:** Contributions to the knowledge of Swedish day-butterflies.

**Contains** critical notes on more than 60 day-butterflies of Sweden, with data on systematics, biology and Scandinavian and total distribution; the majority of species are native to northern regions; bibliography (85 items). Summary in German. **Copy seen:** DLC; MH-Z.

**24710. NORDSTRÖM, FRITHIOF, 1882-** . *Dysstroma* Hb. (*Cidaria* Tr.) *infuscata* Tgstr. och *latefasciata* Stgr. i Sverige. (Entomologisk tidskrift, 1929. Årg. 50, häft. 3-4, p. 284-92, plate 1; 1931, Årg. 52, häft. 1, p. 81-87, illus.) **Title tr.:** *Dysstroma* Hb. (*Cidaria* Tr.) *infuscata* and *latefasciata* in Sweden.

**Contains** a critical study of two lepidopters, *Dysstroma* (*Cidaria*) *infuscata* and *D. latefasciata*, based on the investigation of specimens in the Zoological Museums at Oslo and Stockholm; the first species is native to Sør-Varanger in northern Norway, and to Swedish Lapland, and one of the varieties of the latter, var. *infuscata* is recorded as from "Lapland." **Copy seen:** DLC; MH-Z.

**24711. NORDSTRÖM, FRITHIOF, 1882-** . Fjärilar från Pite Lappmark, samlade av J. J. Braconier 1933. (Entomologisk tidskrift, 1935. Årg. 56, häft. 3-4, p. 151-59) **Title tr.:** Lepidopters from Pite Lappmark collected by J. J. Braconier in 1933.

**Contains** a brief account of the exploring trip, geographic notes and a list of 135 Lepidoptera species (1,300 specimens) collected by a student who died in 1934, including four species new to the fauna of Sweden and four subspecies and forms new to science. Summary in German.

**Copy seen:** DA; MH-Z.

**24712. NORDSTRÖM, FRITHIOF, 1882-** . Fjärilfynd. (Entomologisk tidskrift, 1920, pub. 1921. Årg. 41, häft. 2-4, p. 153-57) **Title tr.:** Lepidoptera finds.

**Contains** a list of about 80 rare or otherwise interesting butterflies and moths from various regions of Sweden, with localities and notes on habitat; includes at least 4 species native to Swedish Lapland. **Copy seen:** DLC; MH-Z.

**24713. NORDSTROM, FRITHIOF, 1882-** . För svenska faunan nya fjärilar jämte några andra. (Opuscula entomologica, 1947. Bd. 12, häft. 4,

p. 159-72, plate, text map) **Title tr.:** Lepidopters new to the fauna of Sweden and some other species.

**Contains** critical notes and data on geographic distribution in Sweden of 24 lepidopters mostly new to the fauna of Sweden, including *Notodonta dromedarius polaris* previously known from Muonio-niska, Finland, and later found in Tärnaby, Lycksele Lappmark, *Orgyia ericae* collected in Swedish Lapland and *Hepiolus fuscoargenteus*, a north Norwegian species, found in Abisko region, Torne Lappmark; bibliography (40 items).

**Copy seen:** DA; MH-Z.

**24714. NORDSTRÖM, FRITHIOF, 1882-** . Förteckning över Sveriges storfjärilar. Catalogus insectorum Sueciae, III. Macrolepidoptera. (Opuscula entomologica, 1943. Bd. 8, häft. 3-4, p. 59-120, text map) **Title tr.:** List of large-sized lepidopters of Sweden. Insect catalog of Sweden, III. Macrolepidoptera.

**Contains** a systematic list of 969 species of large butterflies and moths (Macrolepidoptera) known from Sweden, with tabulated data on their distribution in 30 geographic regions of Sweden, including all parts of Lapland and Norrbotten, also in Norway, Finland, Baltic regions, northern Germany and Denmark. Brief notes are given on habitat and local distribution of some species (marked with asterisk in the list). For other parts of this insect catalog, see *Catalogus insectorum Sueciae*, I-XII.

**Copy seen:** DA; MH-Z.

**24715. NORDSTRÖM, FRITHIOF, 1882-** . Hur noggrant kanna vi utbredningen av Sveriges Macrolepidoptera? (Opuscula entomologica, 1952. Bd. 17, häfte 3, p. 209-211, text map) **Title tr.:** To what extent do we know the geographic distribution of Swedish Macrolepidoptera?

**Contains** a discussion of present-day knowledge of the distribution of Swedish Macrolepidoptera; and a distributional map, including northern regions, presented by the author on the basis of the data gathered during his fifty years' activity as a lepidopterologist. Summary in English. **Copy seen:** MH-Z.

**24716. NORDSTRÖM, FRITHIOF, 1882-** . Lapplands fjärilar. (Entomologisk tidskrift, 1933. Årg. 54, häft. 2, p. 145-68; häft. 3-4, p. 169-214, plates 1-9) **Title tr.:** Lepidoptera from Lapland.

**Contains** historical notes on the study

of lepidopterous fauna of the region, physical and geographic data and a critical revision of 55 lepidoptera, native to Swedish, Finnish and Russian Lapland and to the northern provinces of Norway. **Copy seen:** DA; MH-Z.

**24717. NORDSTRÖM, FRITHIOF, 1882-** . Nagot om svenska *Eupithecia*-arter. (Entomologisk tidskrift, 1921. Årg. 42, häft. 3-4, p. 164-74) **Title tr.:** On Swedish *Eupithecia* species.

Contains critical notes on 19 Swedish species of lepidopterous genus *Eupithecia* and 2 species of other genera (*Gymnoscelis* and *Chlorochystis*), including 3 species native to Swedish Lapland; bibliography (22 items). **Copy seen:** DLC; MH-Z.

**24718. NORDSTRÖM, FRITHIOF, 1882-** . Om *Brephos nothum* Hb. (Entomologisk tidskrift, 1915. Årg. 36, häft. 2-4, p. 289-90) **Title tr.:** On *Brephos nothum* Hb.

Contains descriptive notes on larvae and data on distribution of a butterfly, *Brephos nothum*, native to Lule Lappmark, Sweden.

**Copy seen:** DLC; MH-Z.

**24719. NORDSTRÖM, FRITHIOF, 1882-** . Om Några misskända *Athetis* (*Caradrina*) arter. (Entomologisk tidskrift, 1933. Årg. 54, häft. 3-4, p. 220-29, plate 11) **Title tr.:** On some neglected *Athetis* (*Caradrina*) species.

Contains a critical study of some defectively described lepidoptera of the genus *Athetis*, including *A. selini* occurring in Norrbotten; bibliography (37 items). Summary in German.

**Copy seen:** DA; MH-Z.

**24720. NORDSTRÖM, FRITHIOF, 1882-** . Die Raupe von *Hillia iris* Zett. (Entomologisk tidskrift, 1925. Årg. 46, häft. 3, p. 164-66) **Title tr.:** The caterpillar of *Hillia iris* Zett.

Contains a study of the larva of *Hillia* (*Orthosia*) *iris*, first described by Zetterstedt from Swedish Lapland and collected by the author in Jukkasjärvi in 1923, with data on its biology, ecology and host plants (*Salix lapponum*, *S. caprea* and *Vaccinium uliginosum*).

**Copy seen:** DLC; MH-Z.

**24721. NORDSTRÖM, FRITHIOF, 1882-** . Släktet *Oporinia* Hb. i Sverige. (Entomologisk tidskrift, 1924. Årg. 45, häft. 4, p. 182-90, illus., plates) **Title tr.:** Genus *Oporinia* Hb. in Sweden.

Contains data on the history of the study of the lepidopterous gen. *Oporinia* and geographic distribution of various species in Sweden, including *O. dilutata* ab. *laticifolia* n. ab. from the Jukkasjärvi and Kiruna region of Torne Lappmark, and *O. filigrammaria*, native to Swedish (and Finnish?) Lapland; bibliography (23 items). **Copy seen:** DA; MH-Z.

**24722. NORDSTRÖM, FRITHIOF, 1882-, and E. WAHLGREN, 1874-** Svenska fjärilar. Systematisk bearbetning av Sveriges storfjärilar, Macrolepidoptera. I samarbete med och under redaktion av. Albert Tullgren. 50 planscher efete originalmalningar av David Ljungdahl. Stockholm, Nordisk familjeboks forlags aktiebolag, [1953]-41. iv, 86, 353 p., illus. (435 figs.), 50 plates, maps. **Title tr.:** Swedish lepidoptera. Systematic treatment of large lepidoptera, Macrolepidoptera. With collaboration and under editorship of Albert Tullgren. 50 plates after original drawings of David Ljungdahl.

Contains (in the general part, p. 1-86) data on larvae and pupae, their structure and life history, morphological sketch, mode of life, biology, useful and injurious lepidoptera, geographic distribution in Sweden (including arctic or alpine and high-boreal or northern Swedish forest regions) with text maps; the breeding, catching, mounting and preparation of Lepidoptera specimens; systematic notes; synopsis of the families and larvae (p. 79-83) and a bibliography (133 items). In the systematic part are keys to the families and genera and descriptions of all known species of Lepidoptera, with data on biology, ecology and geographic distribution in Sweden, p. 1-339; corrections and additions, p. 340-44; register of Latin names, p. 344-51; index of Swedish names, p. 352-53. For additional data, see F. Bryk and H. Nordström, *Bibliographische und ikonographische Zusätze*, 1946.

**Copy seen:** MH-Z.

**NORDSTRÖM, FRITHIOF, 1882-** . see also Bryk, F., & F. Nordström. Bibliographische u. ikonographische Zusätze zu Svenska fjärilar. 1946. No. 20989.

**NORDSTRÖM, FRITHIOF, 1882-** . see also Vretling, E. G., & F. Nordström. Förödande på fjärilslivet i Lappland. 1930. No. 27191.

**NORDSTRÖM, SVANTE**, *see* Lunelund, H. V., & S. Nordström. Über Him-melsstrahlung. 1948. No. 24037.

**24723. NORMAN, ALFRED MERLE.** Notes on *Selaginopsis* (= *Polyserias Hincksii* Mereschkovsky), and on the circumpolar distribution of certain Hydrozoa. (Annals and magazine of natural history, 1878. ser. 5, v. 1, no. 3, p. 189-92)

*Contains a criticism of some descriptions by K. Merezkovskii of arctic Hydrozoa from the White Sea, including Polyserias hincksii held to be identical with Diphasia mirabilis Verrill, and genus Polyserias synonymous with Selaginopsis. The author gives a list of 16 hydrozoans of circumpolar distribution and critical notes on three species of Selaginopsis, including S. mirabilis native to Alaska waters and the White Sea.*

*Copy seen:* MH-Z.

**24724. NORMAN, JOHANNES MUSAUS, 1823-1903.** Notationes summam conceptae observationum florum arcticarum norvegiae posteriore tempore effectarum, correctione addita latitudinis geographicae terminorum polarium prius indicatorum. (Archiv for matematik og videnskab, 1882. Bd. 7, hefte 4, p. 436-517) *Title tr.:* Summary notes on earlier observations on the arctic flora of Norway, corrected by additions to geographical latitudinal data on northern limits indicated earlier.

*Contains a systematic list of 367 flowering plants and vascular cryptogams growing in northern Norway with localities and data on northern limits of distribution; supplements data published in the author's two earlier papers Index supplementarius locorum natalium, Nidarosiae, 1865 and Specialia loca natalia plantarum, 1868 (Arctic Bibliography, No. 12516 and No. 12522)*

*Copy seen:* MH-Z.

**24725. NORMAN, JOHANNES MUSAUS, 1823-1903.** Voksesteder for nogle af den norske flora's karplanter sønden for Polarkredsen. (Archiv for matematik og naturvidenskab, 1880-81, pub. 1880. Bd. 5, hefte 2, p. 229-46) *Title tr.:* Distribution of some Norwegian vascular plants in the vicinity of the Arctic Circle.

*Contains a study of the geographic distribution of 107 species of flowering plants and vascular cryptogams of Norwegian flora growing close to the Arctic*

Circle,\* including some species native to northern Nordland province.

*Copy seen:* MH-Z.

**24726. NORMAN, JOHANNES MUSAUS, 1823-1903.** Yderligere bidrag til kundskaben om karplanternes udbredning i det nordenfjeldske Norge søndenfor polarkredsen. (Archiv for matematik og naturvidenskab, 1883. Bd. 8, p. 1-186) *Title tr.:* Further contributions to the study of distribution of vascular plants in the northern fields of Norway south of the Arctic Circle.

*Contains a systematic list of 540 flowering plants and vascular cryptogams growing between the Dovrefjeld (a plateau in central Norway) region and the Arctic Circle, with list of localities, notes on habitat and phenological data; the region includes a part of Nordland province.*

*Copy seen:* MH-Z.

**NORSK POLARINSTITUTT**, *see under* Norway.

**NORSKE VIDENSKABERS SELSKAB**, Trondhjem, *see* Ansteinsso, J. Kngl. Norske videnskabers selskab, 1926-36. 1937. No. 20236.

**24727. NORTH PACIFIC PLANNING PROJECT.** The North Pacific study; general summary of research memoranda prepared by the staff of the United States section. Portland, Oreg., 1944. p. l, i, 18 numb. 1. (Its: North Pacific study. [no. 1] Mimeographed.)

*The most important conclusions reached in the 15 investigations comprising the U. S. section of the North Pacific Study are summarized. Subjects covered are Alaska Highway and connections, freight costs, civil aviation, pipe line, water transportation, fisheries, land and agricultural resources utilization, and population, living conditions and employment opportunities.*

*Copy seen:* DI.

**24728. NORTH PACIFIC PLANNING PROJECT.** The North Pacific study. United States section. Fifteen research memoranda dealing with (1) post-war economic utilization of major international projects built for defense purposes in northwestern Canada and Alaska, (2) the future economic development of that region for the benefit of both countries, particularly from the defense standpoint, and for the welfare of the people who live there. Portland, Oreg., 1943-44. 15 nos., illus., plates (part fold.), maps, diagrs.

*Contents:* No. 1. *Its:* General summary of research memoranda. 1944.

No. 2. *Its:* Preliminary memorandum on peacetime use and maintenance of the Alaska military highway. 1943.

No. 3. RETTIE, J. C., and others. Supplement to Preliminary memorandum on peacetime use and maintenance of the Alaska Highway. 1944.

No. 4. RETTIE, J. C., and S. Mirick. Comparisons of transportation costs for 88 specified commodities. 1944.

No. 5. MIRICK, S., and others. Feasibility of automobile ferry service connecting southeastern Alaska with the Canadian highway system. 1944.

No. 6. McKINLEY, C., and others. United States-Canadian post-war civil aviation relationships in the North Pacific. 1944.

No. 7. RETTIE, J. C., and others. Problems in post-war commercial utilization of the Skagway-Whitehorse-Fairbanks petroleum products pipe line system in Alaska. 1944.

No. 8. RETTIE, J. C., and others. Shipping services in the American North Pacific, United States and Canadian. Pt. 1. Economic analysis. 1944.

No. 9. SUNDBORG, G. Shipping services in the American North Pacific, United States and Canadian. Pt. 2. Historical background. 1944.

No. 10. McKINLEY, C., and others. Case for limited modification of cabotage to facilitate integration of Canadian and United States railroad and steamship transportation in the North Pacific. 1944.

No. 11. SUNDBORG, G. International fisheries cooperation between Canada and the United States in the North Pacific. 1943.

No. 12. SUNDBORG, G., and C. McKINLEY. A proposal for protection of the minor fisheries of the North Pacific through cooperative action of the United States and Canada. 1944.

No. 13. SUNDBORG, G. Agricultural development in Alaska. 1944.

No. 14. FORREST, G. Land resources of Alaska; policies and laws controlling their use. 1944.

No. 15. RETTIE, J. C., and others. Population trends, living conditions and employment opportunity in Alaska. 1944.

Each of these papers appears in this Bibliography under its author's name.

*File seen:* DI.

**24729. NORTH PACIFIC PLANNING PROJECT.** Preliminary memorandum on peacetime use and maintenance of

the Alaska military highway . . . Preliminary draft. Portland, Ore., 1943. p. 1, 23, xx, xi, i p. incl. tables., fold. map, fold. diagr. (*Its:* North Pacific study. [no. 2]) Mimeographed.

Analytical (though brief) discussion of the wartime use of the Highway, its long-term military and peacetime value, problems of development for tourist use, estimates of costs of trips to Alaska, the financing of maintenance, tentative estimates, revenue from users of the road, probable minimum maintenance costs, revenue yield from a moderate toll; coast route ferry service, and problems of coordination in maintenance. *Appendices:* Tables of estimated costs of automobile tourist travel; diagram and table of estimated annual traffic; table of estimated revenue from fuel tax. *Map* shows main road connections to Alaska military highway.

*Copy seen:* DI.

**24730. NORTHWEST TERRITORIES. LAWS, REGULATIONS, etc.** New game regulations in the Northwest Territories, 1949. (Polar record, July 1950. v. 5, no. 40, p. 627-30)

*Contains* a short summary of "An Ordinance Respecting the Preservation of Game in the Northwest Territory" which came into effect on July 1, 1949 on the repeal of the "Northwest Game Act"; includes: prohibitions and regulations on certain firearms; use of traps; waste of game and furs; sale and use of caribou and moose meat, etc.; game preserves and sanctuaries; closed seasons; licenses and certificates; trade and traffic in game; fur farms, etc.; administration and enforcement.

*Copy seen:* DLC.

**24731. NORTHWEST TERRITORIES. LAWS, REGULATIONS, etc.** New ordinances affecting scientists and explorers in the Northwest Territories, 1949. (Polar record, July 1950. v. 5, no. 40, p. 630-33)

*Contains* the text of two ordinances, which supersede similar earlier regulations of June 1926: (1) The Scientists and Explorers Ordinance deals with licenses and conditions for exploration; submission of programs, logs, results, reports, etc., of explorations; penalties, etc. (2) Archeological Sites Ordinance, dealing with: definitions, permits to excavate, collect, export, etc. antiquities; reports and other information to be furnished to the authorities; submission of

specimens, etc., for examination of authorities; violations and fines.

**Copy seen:** DLC.

**24732. NORTHWEST TERRITORIES. LAWS, REGULATIONS, etc.** Ordinances of the Northwest Territories, passed by the Northwest Territories Council in the year 1949. Ottawa, King's Printer, 1950. 196 p.

*Contains* text of 34 statutes mostly relating to civil life and property in the area, but including several of special interest to explorers and scientists, e. g. laws relating to archeological sites, fur export, game preservation, scientists and explorers, public health, etc.

A consolidation of the ordinances passed from the time of the Territory's administrative reorganization of 1905 to 1930 was published in 1931 (see *Arctic Bibliography*, No. 12556). On publication of statutes passed 1931-48 information is in *Arctic Bibliography*, v. 5.

**Copy seen:** CaMAI.

**24733. NORTHWEST TERRITORIES. LAWS, REGULATIONS, etc.** Ordinances of the Northwest Territories, passed by the Northwest Territories Council in the year 1952. Ottawa, King's Printer, 1952. Mimeographed, each chapter paged individually.

*Contains* chapters 1-19, assented to July 10, 1952. Notable are chap. 18, The School Ordinance, (27 l.+forms A-I) and chap. 20, Workman's Compensation Ordinance (20 l.+schedule 1-2)

**Copy seen:** CaMAI.

**24734. NORWAY. METEOROLOGISKE INSTITUTT.** Nedbøren i Norge 1895-1943: I, Middelverder og maksima; II, Nedbørhøyder for måneder, årstider og år. Oslo, Aschehoug, 1949. 2 pt.: xxvii, 114 p. (tables), 16 maps; 302 p. (tables). Text in Norwegian and English. **Title tr.:** Precipitation in Norway 1895-1943: I, Mean and maximum values; II, Monthly, seasonal and annual amounts of precipitation.

*Contains* (in pt. I) data on the precipitation in Norway from 1895 to 1943 collected from 825 observation stations and presented in the form of tables and maps. Approx. 100 of the stations are north of the Arctic Circle. Mean monthly and annual amounts of precipitation are related to the normal period 1901-1930. Data are given on maximum amounts and intensity of, and on mean monthly and annual days with precipitation. In

pt. 2 are tabular data of monthly seasonal and annual amounts of precipitation presented station-by-station.

**Copy seen:** DLC.

**24735. NORWAY. METEOROLOGISKE INSTITUTT.** Nedbøriakttagelser i Norge, årgang 53, 1947. Oslo, Aschehoug, 1950. 54 p., fold. chart, tables **Title tr.:** Precipitation observations in Norway, 53d year, 1947.

"Rainfall data for Norway has been published in yearbooks for the period 1895—date, but with some irregularities. Summarized data for 1895-1943 and "normal" data for 1901-30 were published in 1949. In this volume, the daily precipitation data for about 500 stations in Norway are tabulated for the year 1947. Snow depth in cm. is tabulated for each 5 day period during the months from Oct.-May, for about 50 stations. Monthly and annual summaries of precipitation and snow depth are given by districts for each station. Percentage of "normal" for each month and the year is also given for 55 stations and, finally, a large colored chart shows actual precipitation (mm.) at each station and percent of normal (1901-30) for year 1947. Variation was from <50% in SE to >130% in N."—*Meteorological abstracts and bibliography*, Nov. 1951. v. 2, no. 11, p. 883. About 25 per cent of the stations reporting are located north of the Arctic Circle.

**Copy seen:** DWB.

**24736. NORWAY. METEOROLOGISKE INSTITUTT.** Norsk meteorologisk årbok, 1949. Oslo, 1951. 141 p., tables **Title tr.:** Norwegian meteorological yearbook.

Text in English and Norwegian. "Chart shows location of 206 stations operating in Norway and arctic islands during 1949. Table gives exact data as to location, height of instruments and time of observations, names of observers, etc. Detailed observational data, in some cases bi-hourly and in others thrice-daily, are given for each element for 150 stations. Monthly and annual summaries, departures from the normal period (1901-30), sea surface temperatures (12 stations), actual observations for Arctic stations for 1948, and for Oslo, Bergen, Trondheim and Tromsø for 1949, and data from recording instruments at Oslo (Bindern) for 1949 (pressure, temperature, precipitation, wind, relative humidity) are included in this model year-book."—*Meteorological abstracts and bib-*

liography, Nov. 1951. v. 2, no. 11, p. 883. For earlier years (1867-1948) see *Arctic Bibliography*, No. 12563. Isfjord Radio, Hopen, Bjørnøya, Jan Mayen, and Myggbukta (East Greenland), report regularly, as well as the northern mainland stations. **Copy seen:** DWB.

**24737. NORWAY. NORSK POLARINSTITUTT.** Norwegische Expeditionen im Jahre 1948-49. (Polarforschung, 1948-1949, pub. 1950. Bd. 2, Jahrg. 18, p. 37-38, i. e. p. 233-34; Jahrg. 19, p. 282-83) **Title tr.:** Norwegian expeditions in 1948-49.

Brief notes on the work of parties on West Spitsbergen and in Svalbard waters, including hydrographic surveys, setting up of beacons, geologic research, ornithologic studies (which incidentally established the certainty of a musk-ox population), botanical and glaciological investigations; also photogrammetric work on Hopen. **Copy seen:** DGS.

**NORWAY. NORSK POLARINSTITUTT,** see also Luncke, B. Norges Svalbard- og Ishavs-undersøkelers kartarbeider. 1949. No. 24009.

**NORWAY. NORSK POLARINSTITUTT,** see also *Polar record*. Exped. Norsk Polarinstitut 1948. 1950. No. 25150.

**NORWAY. NORSK POLARINSTITUTT,** see also *Polar record*. Exped. Norsk Polarinstitut 1949. 1950. No. 25151.

**NORWAY. NORSK POLARINSTITUTT,** see also *Polar record*. Exped. Norsk Polarinstitut, 1950. 1951. No. 25149.

**NORWAY. NORSK POLARINSTITUTT,** see also *Polarårbooken*. Norsk Polarinstitut. 1951. No. 25177.

**NORWAY. NORSK POLARINSTITUTT,** see also *Polarbooken*. Norsk Polarinstitut. 1949. No. 25178.

**24738. NORWAY. SJØKARTVERKET.** Tidevanntabeller; tide tables for den norske kyst. 12. Årgang. Oslo, 1949. 132 p. (12th edition).

Daily tables, referred to nine standard ports including five above the Arctic Circle: Vardø, Hammerfest, Tromsø, Narvik, and Bodø, with harmonic tidal constants. **File seen:** DLC.

**NORWEGIAN GEOGRAPHIC SURVEY,** see Norway. Norges geografiske opmåling.

**24739. NOR' WEST MINER,** Edmonton, Alta., 1933?-1950. By-monthly edited by F. S. Wright, ceased publication with v. 18, no. 5, Sept-Oct. 1950. "Devoted to development descriptive of the Northwest Territories, northern British Columbia and the Yukon—along the trail of the Alaska Highway."

Contained articles on oil and resources, transport, administration, advertisements of services, etc.

**File seen:** CaMAI (1948-50).

**24740. NOR' WEST MINER.** Settlements in the Northwest Territories. (Nor'west miner, Jan.-Feb. 1950. v. 18, no. 1, p. 12-15)

Alphabetical list of 80 populated places of Mackenzie, Keewatin and Franklin Districts with brief note on status (trading post, missions, police or other governmental station, post office, radio or meteorological station, etc.).

**Copy seen:** CaMAI.

**24741. NOVAKOVSKIĬ, A. IŪ.** Havok of the Okhotsk fisheries. (Russian Far East; economic monthly (Tokyo) Oct. 1920. no. 1, p. 40-42) Issued also in Russian (with title: *Razgrom Okhotskoĭ rybopromyshlennosti*) in the first (Russian) section of this magazine, p. 51-52.

Note on destruction by the Bolsheviks of fishing and fish-manufacturing plants on the northern and western coasts of the Sea of Okhotsk, with statistical data on catch, taxes paid and number of plants in 1910-13, and 1919.

**Copy seen:** DGS.

**24742. NOVAKOWSKY, STANISLAUS.** Arctic or Siberian hysteria as a reflex of the geographic environment. (Ecology, Apr. 1924. v. 5, p. 113-27)

On the basis of study of the literature on the subject, author suggests *Hysteria siberica* as a name for the nervous disorder; enumerates seventeen symptoms; disassociates the hysteria from neurasthenia and epilepsy; categorizes its causes as: the natives' concept of evil spirits, heredity, racial differences, and geographical environment; gives an analysis of the latter, including climate, length of winter darkness, monotony of season and lack of variability. Bibliography (20 items). **Copy seen:** DGS.

**24743. NOVIKOV, G. A.** Elovye lesa Kol'skogo poluostrova kak sreda obitaniia mlekoopitaushchikh i ptits; opyt ekologicheskogo analiza landshtafta. (Vsesoiuznoe geograficheskoe obshchestvo. Izvestiia, 1952. t. 84, no. 2, p. 154-65) **Title tr.:** The fir forests of the Kola Peninsula as habitats of mammals and birds; attempt at an ecological analysis of the landscape.

*Contains* a study based on field work done during 1937-1939, with sections on the general ecological conditions of these forests, including climate, species of mammals and birds found in them, conditions of shelter, food resources, distribution of the mammals and birds according to biotopes and seasons, feeding, etc. These mammals and birds are considered to represent a specific complex, differing from others surrounding it, and from those of fir forests of lower latitudes. Bibliography (27 items).

**Copy seen:** DLC.

**24744. NOVIKOV, G. A.** Sutochnaia zhizn' lesnykh ptits v Subarktike. (Zoologicheskii zhurnal, 1949. t. 28, vyp. 5, p. 461-70) **Title tr.:** Day and night life of forest birds in subarctic regions.

*Contains* the results of the author's study in 1937-39, of the biology and ecology of forest birds in the Lapland sanctuary, Kola Peninsula; with tabulated data for various months and comparison with other subarctic regions.

**Copy seen:** DLC; MH-Z.

**24745. NOVIKOV, P. A.** Akademik S. P. Krashennnikov kak pervyi issledovatel' zhivotnogo mira Kamchatki. (Akademiia nauk SSSR. Institut istorii estestvoznaniia. Trudy, 1949. t. 3, p. 262-96) **Title tr.:** Academician S. P. Krashennnikov as the first explorer of the fauna of the Kamchatka Peninsula.

*Contains* a biography of Krashennnikov and data on his exploration of Kamchatka (Oct. 22, 1737-May 28, 1741) as a member of Bering's second expedition, with special reference to his role in the study of the peninsula's fauna. Includes lists of mammals, birds and fishes (130 specimens in all), and data on their biology and ecology, extracted from chapters VI-X of his *Opisanie zemli Kamchatki*, 1755 (Arctic Bibliography, No. 9265) and a list of his zoological papers (incl. manuscripts) p. 272-78.

**Copy seen:** MH.

**24746. NOVITSKIĬ, GRIGORIĬ IL'ICH.** Kratkoe opisanie o narodnĕ ostiâskom,

v. 1715 gody. Izdal L. Malkov. S. Peterburg, Tip. V. S. Balasheva, 1884, vi, 116 p. **Title tr.:** A brief description of the Ostyak people in 1715. Edited by L. Malkov.

*Contains* description of Siberia, its geography, inhabitants, government and Russian conquest of the area; the life and habits of the "civil population and others"; paganism, the "beginning of religion" and eradication of paganism. The Ostyaks are treated in some detail in regard to their life and customs; birth and name-giving, food and tobacco smoking, dwellings, implements and utensils, reindeer and dog sledges, clothing; sex attitudes and marriage; religion and idols (*sheitan*), mourning customs, taking an oath; conversion to christianity. The text is printed from an apparently unfinished manuscript preserved in Tobolsk. Very little is known about Novitskii who apparently was in Siberia as a deportee. His account was previously published (without acknowledgement of its real authorship) by Johan Bernhard Müller as *Leben und Gewohnheiten der Ostaken* (Life and customs of Ostyaks), Berlin, 1720, 75 p. (copy at MH). It was also translated into French, *Les mœurs et usages des ostiackes*, and published in I. F. Bernard's *Recueil de voyages du Nord*, 1725-38, t. 8, p. 375-429 (copy in DLC).

**Copy seen:** DLC.

**24747. NOVOSELOV, N. S., and others.** Lesa i lesnaia promyshlennost' DVK. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1938. no. 30 (3), p. 33-54, illus., plate) *Other authors:* Kozhevnikov, F. A., and S. N. Moiseenko. **Title tr.:** Forests and lumber industry of the Far Eastern Region.

*Contains* sections on (1) forests of the Far East; (2) utilization of the forest of the region; (3) lumbering at the present time; lumber-cutting centres, mechanical equipments, production; (4) forest management; (5) forest industry. Includes data on the forests and various commercial trees of the Kamchatka Peninsula and Okhotsk region, although the forest industry is concentrated in the Amur and Ussuri regions of the southern Far East.

**Copy seen:** DLC; MH-A.

**24748. NOVOZHILOV, N. I.** Ob ostatkakh neizvestnogo pozvonochnogo v permskikh otlozheniiaakh ūzhnogo berega Khatangskogo zaliva. (Akademiia nauk SSSR. Doklady, 1948. t. 59, p. 743-46, illus.) **Title tr.:** Concerning remains of

an unknown vertebrate from the Permian deposits on the south shore of Khatanga Bay.

Description of "vertebrate remains from Permian deposits of the south shore of Khatanga Bay" (about 73°35' N. 108° E.); with conclusion "that they probably are reptilian," and constitute a new genus and species *Estheriophagus chatangensis*.—Geological Society of America. Bibliography and index of geology. **Copy seen:** DLC.

**24749. NOVYE MATERIALY O NARODNOSTIAKH SEVERA.** (Akademii nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1932, no. 3-4, p. 80) **Title tr.:** New materials on the peoples of the Asiatic North.

Summary account of a study of the anthropology, ethnology and ethnography of the Lamuts and Orochi (Tungus or Evenki) of the Okhotsk coastal region carried out in 1931-32 by V. I. and M. G. Levin of the Moscow Institute of Anthropology. **Copy seen:** DLC; MH-A.

**24750. NOZIKOV, NIKOLAI NIKOLAEVICH.** Russkie krugosvetnye moreplavatel'i. Pod redaktsiei i v vstupitel'noi stat'se M. A. Sergeeva. Izd-ie vtoroe. Moskva, Voennoe izd-vo ministerstva vooruzhennykh sil soiuza SSR, 1947. 294 p. illus., 2 fold. maps. **Title tr.:** Russian round-the-world navigators.

Contains a semi-popular account of the life and exploits of: I. F. Kruzenshtern and I. F. Lisianskii, their voyage around the world on the *Nadezhda* and *Neva* (1803-1806), which included calls at Kamchatka and Alaska; V. M. Golovnin and his cruise on the *Diana* (1807-1813) and *Kamchatka* (1817-19) with visits to Kamchatka, the Aleutians and Alaska; F. P. Litke and his round-the-world cruise on the *Seniavin* and *Moller* (1826-29), which, like the two previous ones, included the Russian lands bordering Bering Sea and the North Pacific. The account contains descriptions of the places visited, their history, geography, climate, flora, fauna, population, etc. The first edition of this book appeared in 1941. Bibliography (58 items).

**Copy seen:** DLC.

**24751. NUORTEVA, MATTI.** Metsän viljelyä männyn metsänrajan pohjoispuolella. (Metsä-taloudellinen aikakauslehti (Finska förstföreningen), 1948. v. 63, no. 1-2, p. 14-16, illus., map) **Title**

**tr.:** Tree planting north of the northernmost forest limits.

Author describes and illustrates the limits of pine forests and of individual pine in northern Finland; the reforestation in progress at Utsjoki, Harrisuanto; the author's own seedling experiment area, (7000 saplings) at 69° 51' N. lat., the most northerly tree-planting experimental station anywhere, he suggests.

**Copy seen:** DA.

**24752. NUORTEVA, PEKKO.** Observationer rörande stritar i Utsjoki. (Notulae entomologicae, 1947, pub. 1948. v. 27, no. 2-4, p. 126-28) **Title tr.:** Observations on cicadas in Utsjoki.

Contains a list of 21 species of cicadas (*Cicadidae*) collected by the author in Utsjoki parish Finnish Lapland (69°-70° N.) in the summer of 1947, with data on habitat and some statistical notes.

**Copy seen:** DLC; MH-Z.

**24753. NUSSER, FRANZ.** Prof. Dr. Leonid Breitfuss. (Deutsche hydrographische Zeitschrift, Oct. 1949. Bd. 2, Heft. 5, p. 226-27) **Title tr.:** Prof. Dr. Leonid Breitfuss.

Contains an appreciation of this eminent arctic historiographer on the occasion of his 85th birthday, with tribute to the great advances in polar exploration since he entered the field 51 years earlier. Includes a biographical sketch, an outline of Breitfuss' scientific activity in biology, oceanography, meteorology, etc., in Russia till 1920, and subsequently in Germany. His editorial and publishing activities are also noted briefly.

**Copy seen:** DLC.

**24754. NUTT, DAVID C.** The Blue Dolphin Labrador Expeditions, 1949-1950. (Arctic, May 1951. v. 4, p. 2-11, illus., 2 sketch maps)

Brief notes on the vessel, the sponsorship, cooperating institutions, and personnel for the two summer trips northward along the Labrador coast from the Strait of Belle Isle to Seven Islands Bay (59°15' N.) and (in more detail) discussion of bathymetric, and drainage conditions in the Hamilton Inlet - Lake Melville waters where oceanographic and ecologic work was concentrated in 1950.

**Copy seen:** DAI; DLC.

**NUTT, DAVID C.,** see also *Polar record*. Dartmouth College exped. Labrador 1950. 1952. No. 25142.

**24755. NUTTONSON, MICHAEL Y., 1904-** . Agricultural climatology of Siberia, natural belts, and agro-climatic analogues in North America. Washington, D. C., 1950. 64 p. incl. 2 maps, tables (part fold.) 3 fold. tables. (American Institute of Crop Ecology. International agro-climatological series. Study no. 13)

Comparative ecological study, briefly describing the general and comparative geography, latitudinal and vertical vegetation belts and zones, and the regions of western and eastern Siberia and the Soviet Far East. Bibliography (57 items). *Tables:* Thermally analogous regions in North America, and data on temperature, precipitation and relative humidity for relevant localities including 54 above the Arctic Circle. **Copy seen:** DLC.

**24756. NUTTONSON, MICHAEL Y., 1904-** . Agricultural climatology of Sweden and its agroclimatic analogues in North America. Washington, D. C., 1950. 27 p. incl. 2 maps, tables, fold. table. (American Institute of Crop Ecology. International agro-climatological series. Study no. 11)

Comparative ecology as it affects plant adaptation and introduction, with sketch of general and comparative geography and climate. Tabular data and map include meteorological stations and temperature, precipitation and relative humidity for 9 localities north of the Arctic Circle. Bibliography (30 items). **Copy seen:** DLC.

**24757. NUTTONSON, MICHAEL Y., 1904-** . Ecological crop geography of Finland and its agro-climatic analogues in North America. Washington, D. C., 1950. 35 p. incl. map, tables., fold. table. (American Institute of Crop Ecology. International agro-climatological series. Study no. 10)

Comparative ecology for use in plant adaptation and introduction studies: brief description of the general and comparative geography, climate, forests, soils and farm crops of Finland, including the Pechenga (Petsamo) region and showing data for 12 stations above the Arctic Circle. Bibliography (36 items). **Copy seen:** DLC.

**24758. NUTTONSON, MICHAEL Y., 1904-** . Ecological crop geography of Norway and its agro-climatic analogues in North America. Washington, D. C., 1950. 31, [1] p., incl. map, tables, fold.

table. (American Institute of Crop Ecology. International agro-climatological series. Study no. 12)

Study of comparative ecology to aid in plant-introduction programs, giving a sketch of general and comparative geography of Norway, its climate, forests, soils and farm crops. *Map* and fold. table include Svalbard and show meteorological stations and their thermally analogous areas in North America (map) and monthly mean temperatures ( $^{\circ}$  F), frost dates and duration, average precipitation, and relative humidity (table). Bibliography (28 items). **Copy seen:** DLC.

**24759. NYBERGH, HUGO.** Jäämeren radan pääte piste. (Teknillinen aikakauslehti, 1921. v. 11, no. 4, p. 396-97)

**Title tr.:** The terminus of the Arctic Ocean railroad.

In further reply to Liinaharja, q. v., author supports his own proposal of Vaidalahti (Vayda Guba on Rybachiy Peninsula) as terminus of the northern railroad, showing that this port will serve the Arctic Ocean area more fully than Petsamo. **Copy seen:** DLC.

**24760. NYBERGH, HUGO.** Jäämeren rata. (Teknillinen aikakauslehti, 1921. v. 11, p. 41) **Title tr.:** A railroad to the Arctic Ocean.

*Contains* discussion of a proposal for extending the railroad from Rovaniemi to Vaidalahti in the northernmost part of Rybachiy (Fisher) Peninsula, as an alternative to Petsamo as suggested by Liinaharja, q. v. **Copy seen:** DLC.

**24761. NYBERGH, HUGO.** Vähäsen jäästä. (Teknillinen aikakauslehti, 1920. v. 10, p. 35-39) **Title tr.:** A little about ice.

*Contains* data on snow ice, water ice, frazil ice, and pack ice. Some physical properties are discussed and the hardness and strength as well as the break-up of ice described. **Copy seen:** DLC.

**NYGARD, I. J.,** see Kellogg, C. E., & I. J. Nygard. Exploratory study soil groups. 1951. No. 23182.

**24762. NYGREN, AXEL, 1912-** . Cytological and embryological studies in arctic Poae. Uppsala, Lundequistka bokhand., 1950. 64 p., plates 1-15, text maps. (Symbolae botanicae upsalienses, t. 10, no. 4)

*Contains* the results of cytological and embryological studies of the arctic species

of the gramineous genus *Poa*, with data on chromosome number of 26 viviparous and non-viviparous forms of *P. arctica*, *P. pratense* and related species, collected in the Swedish provinces Harjedalen and Torne Lappmark and in the mountains of northern Norway and Sweden (1946-49). Taxonomic aspects and distribution of various subspecies are discussed on p. 44-57. Bibliography (68 items).

**Copy seen:** DA; MH-A.

**NYHOLM, E. T.**, see Ramsay, W., & E. T. Nyholm. Cancerinitsyenit u. verwandte Gesteine Kuolajärvi. 1895. No. 25345.

**24763. NYHOLM, TORD.** Zur Kenntnis der Curculionidenfauna Schwedens, 3. Die schwedischen *Acalyptus*-Arten. (Entomologisk tidskrift, 1952. Årg. 73, häft. 3-4, p. 219-27, illus.) **Title tr.:** A contribution to the knowledge of curculionid fauna of Sweden, 3. Swedish species of *Acalyptus*.

**Contains** a comparative taxonomic study of two species of snout beetles, *Acalyptus carpinii* and *A. sciriceus*, both living on willows in Swedish Lapland.

**Copy seen:** MH-Z.

**24764. NYLANDER, ANDERS EDWIN, 1831-1890.** Bidrag till Finlands malakozoologi. (Societas pro fauna et flora fennica. Notiser ur förhandlingar, 1858-59. Häft. 4 (ny serie 1) p. 127-43) **Title tr.:** A contribution to the malacology of Finland.

**Contains** a systematic list of 53 species of fresh-water molluscs, based mostly on collections made by M. Gadd (in Finnish Lapland, 1856-57), J. J. Chydenius and J. E. Furuhielm (Russian Lapland and Karelia) and some other zoologists; includes at least 17 species native to northern Scandinavia; a list is added of 25 species of fresh-water molluscs inhabiting all regions of Finland, p. 142.

**Copy seen:** MH-Z.

**NYLANDER, BRUNO FAB.**, see Wright, M., v. Anteckn. under en ornithol. resa. 1857. No. 27492.

**24765. NYLANDER, WILLIAM, 1822-1899.** Additamentum adnotationum in monographiam formicarum borealium Europae. (Finska vetenskaps-societeten, Helsingfors. Acta Societatis scientiarum fennicae, 1847. v. 2, p. 1041-1062) **Title tr.:** Addition to Notes to a monograph of boreal ants of Europe.

Twenty-five species of northern ants

are described in detail and added to the author's previous list of ants of this area.

**Copy seen:** DLC.

**24766. NYLANDER, WILLIAM, 1822-1899.** Adnotationes in monographiam formicarum borealium Europae. (Finska vetenskaps-societeten, Helsingfors. Acta Societatis scientiarum fennicae, 1847. v. 2, p. 875-944) **Title tr.:** Notes to a monograph of boreal ants of Europe.

**Contains** sections on anatomy, reproduction and growth; nuptial flights; food; habitat, etc. This is followed by a taxonomic section in which the individual species (25) are described in detail.

**Copy seen:** DLC.

**24767. NYLANDER, WILLIAM, 1822-1899.** Diatomaceis Fenniae fossilibus additamentum. (Societas pro fauna et flora fennica. Notiser ur förhandlingar, 1861. Häft. 6 (ny serie 3) p. 145-59, 196) **Title tr.:** Additions to the fossil diatoms of Finland.

**Contains** a list of fossil diatoms from various regions of Finland, including 50 species from the bottom of Lake Kataja, Sodankylä, Swedish Lapland.

**Copy seen:** MH-Z.

**24768. NYLANDER, WILLIAM, 1822-1899.** Lichenes Lapponiae orientalis. (Societas pro fauna et flora fennica. Notiser ur förhandlingar, 1882. Häft. 8 (ny serie 5) p. 101-192) **Title tr.:** Lichens of eastern Lapland.

**Contains** a systematic list of about 300 lichens collected by N. I. Fellman and the author in Kola Peninsula in 1861, with data on distribution, and descriptions of some of the more interesting species; also critical notes and descriptions of some species in a supplement, p. 178-90; index of Latin names, p. 190-192. This work was published as a separate in 1866 (copy not seen).

**Copy seen:** MH-Z.

**24769. NYLANDER, WILLIAM, 1822-1899.** Lichenes Scandinaviae. Helsingforsiae, J. Simelii boktr., 1861. 312 p., plate 1. (Societas pro fauna et flora fennica. Notiser ur förhandlingar, häft. 5. (Ny serie. Häft. 2))

**Contains** a general description of lichen flora of Scandinavia, morphological data, bibliography (57 items) p. 15-18, a synopsis of the families, tribes and genera, p. 19-21, and a systematic list of 446 species, p. 23-294, with Latin diagnoses and data on habitat and geographic

distribution in Scandinavia; index of Latin names, p. 295-312; includes many species native to Swedish, Finnish and Russian Lapland and northern Norway.

**Copy seen:** DLC; MH-F.

**24770. NYLANDER, WILLIAM, 1822-1899.** Notice sur quelques cryptogames Scandinaves nouvelles. (Societas pro fauna et flora fennica. Notiser ur förhandlingar, 1858-59, pub. 1858. Häft. 4 (ny serie 1) p. 1-8) **Title tr.:** Notes on some new Scandinavian cryptogams.

**Contains** Latin diagnoses of some new species of lichens, including *Synalissa meladermia* and *Verrucaria sphinctrinoides* n. spp. from Inari Lapland, Finland and *V. epidermidis* var. *pyrenastrella* from the same region. **Copy seen:** MH-F.

**24771. NYMAN, P. O., and W. R. UGGLA.** Några nya mosslokaler från Torneträskområdet. (Svensk botanisk tidskrift, 1950. Bd. 44, häfte 1, p. 194-202, illus.) **Title tr.:** On some new localities of mosses in the Torneträsk region.

**Contains** a list of about 50 mosses with new localities in the Torneträsk region of Torne Lappmark, northern Sweden; includes Latin diagnoses of *Seligeria lapponica* n. sp. **Copy seen:** DA; MH-A.

**24772. OBERG, KALERVO, 1901-** . The social economy of the Tlingit Indians. [Chicago] 1940. 1 p. 1., p. 133-61 Lithoprinted.

In the first half of the abstract of his Ph. D. dissertation to University of Chicago in 1937, the author surveys historically theories on primitive culture and its investigation, then outlines his own study: social organization of the Tlingits, the "house-group" as an economic unit, means of production, property relationships (exchange, ceremonial gifts, trade), consumption, and uses of wealth in food, shelter, clothing, upkeep of equipment, etc.; artistic productions, the potlatch; effect of the fur trade on traditional Tlingit economy. **Copy seen:** DLC.

**24773. OBLASTNĀĪA PLANOVĀĪA KOMISSIĀ SEVEROVOSTOCHNOĪ OBLASTI.** Kontrol'nye tsifry narodnogo khoziaistva Severo-Vostochnoi oblasti na piat' let. Arkhangel'sk, 1925. 2 pt. 97, 65 p. tables, diagrs. incl. fold. **Title tr.:** Control figures on the national economy of the Northeastern province for five years.

Though the area concerned is not arctic, its fishing industry work is based

on the arctic seas and (especially) the White Sea. **Copy seen:** DLC.

**24774. OBRUCHEV, D. V.** Devonian fishes of Siberia and Central Asia. (Akademiā nauk SSSR. Comptes rendus (Doklady), 1940. nouv. ser., v. 27, no. 8, p. 889-92, illus.)

**A brief review of all the available materials and data on Devonian fishes of Siberia and Central Asia and description of specimens from a few localities including Taymyr Peninsula, Kureyka and Bakhta River basins, Krasnoyarsk-Kansk region, etc. **Copy seen:** DLC.**

**24775. OBRUCHEV, SERGEĪ VLADI-MIROVICH, 1891-** . Geomorfologicheskoe issledovanie r. Kolymy v 1929 g. (Akademiā nauk SSSR. Izvestiā, seriā 7. Otdelenie fiziko-matematicheskikh nauk, 1930, no. 6, p. 559-84, fold. map) **Title tr.:** Geomorphological investigation of the Kolyma River in 1929.

**Contains** a general account of the exploration of the Kolyma River region in eastern Siberia, by the Kolyma geomorphological party of the Yakut Expedition of the Academy of Sciences, in the summer of 1929. The work included a geomorphological survey of the southeastern Cherskiy Range area, (61°-66° N. 144°-154° E.), with a hypsometric study, a geological outline and a detailed survey of the rivers of this area (the upper Kolyma and its left tributaries), their course, length, shores, watersheds, etc. Considerable deviations from earlier surveys were found. A schematic map of the upper Kolyma as prepared by the party's geodesist, K. A. Salishchev, is given.

**Copy seen:** DLC; MH.

**24776. OBRUCHEV, SERGEĪ VLADI-MIROVICH, 1891-** . Rabota Kolym-skogo geomorfologicheskogo otriāda Īakutskoi Ėkspeditsii, po 1 iūniā 1929 g. (Akademiā nauk SSSR. Izvestiā, seriā 7. Otdelenie fiziko-matematicheskikh nauk, 1929, no. 8, p. 749-56) **Title tr.:** Work of the Kolyma geomorphological party of the Yakut Expedition, to June 1, 1929.

**Contains** an interim account of the geomorphological exploration of the Kolyma River region in the summer of 1929, with data on traces of the last glaciation, the geological structure, age and tectonics of the Verkhoysansk Ridge; additional critical notes by V. A. Obruchev on p. 755-56. **Copy seen:** DLC; MH.

**OBRUCHEV, SERGEĬ VLADIMIROVICH, 1891-** . see Samoilovich, R. L., & others. *Geologiya Arktiki*. 1937. No. 25812.

**24777. OBRUCHEV, VLADIMIR AFANAS'EVICH, 1863-** . Kratkiĭ ocherk tektoniki Sibiri. Orogeneticheskie tsikly, strukturnye elementy i sistemy skladok. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1923-24. Novaya seriya. t. 32. Otdel. geol. t. 2, no. 3, p. 113-58, plate 1) *Title tr.*: A brief sketch of tectonics of Siberia. Orogenetic cycles, structural elements and fold system.

Contains sections on a scheme of division of Siberia into seven geological regions, data on geological history of the area, descriptions of orogenetic cycles, structural elements of the Siberian continent, systems of folding and their succession. Summary in German.

*Copy seen:* DLC; MH-Z.

**24778. OBRUCHEV, VLADIMIR AFANAS'EVICH, 1863-** . Prezhnee i sovremennoe oledenenie Al'aski. Osobennosti razvitiya leda na vechnoi merzote. (Priroda, 1945. v. 34, no. 5, p. 62-64 incl. illus.) *Title tr.*: Past and present glaciation of Alaska. Peculiarities of forest growth upon permafrost.

"Past and contemporary glaciation in Alaska is relatively undeveloped due to sparse winter precipitation. Permafrost exists north of the Alaska Range and extends west and north from the Alaska-Canada boundary to the Arctic Ocean. The thickness of permafrost depends on the various geomorphological characteristics of the area. Aspen, spruce, and pine growing on permafrost develop a multiple horizontal root system."—SIPRE.

*Copy seen:* DLC.

**24779. OBRUCHEV, VLADIMIR AFANAS'EVICH, 1863-** . Puti razvitiya merzlotovedeniya v SSSR. (Akademiya nauk SSSR. Izvestiya. Seriya geologicheskaya, 1945, no. 3, p. 34-44) *Title tr.*: The study of frozen grounds in the U.S.S.R. and the ways of its development.

"Outlines the progress which has been made in the study of permafrost in the Soviet Union, noting the significance of such progress for engineering geology and ground-water supply studies."—Geological Society of America. *Bibliography and index of geology*, 1949, v. 14, p. 191. Summary in English. *Copy seen:* MH.

**24780. OBRUCHEV, VLADIMIR AFANAS'EVICH, 1863-** . Rol' i znachenie molodykh glybovykh dvizhenii v sozdanii rel'efa i mestorozhdenii redkikh metallov Sibiri. (In: Büllenyĭ sbornik posvashchennyĭ tridsatiletiiu velikoi oktiabr'skoi sotsialisticheskoi revoliutsii, 1947. v. 2, p. 22-46) *Title tr.*: Role and significance of late crustal movements on the formation of relief and rare metal deposits of Siberia.

Brief résumé of 20th century investigations in the eastern part of the U.S.S.R. including the geomorphology of north-eastern Siberia and the arctic shelf; with a bibliography (30 items).

*Copy seen:* DLC.

**24781. OBRUCHEV, VLADIMIR AFANAS'EVICH, 1863-** . Uspekhi merzlotovedeniya v SSSR. (In: Büllenyĭ sbornik posvashchennyĭ tridsatiletiiu velikoi oktiabr'skoi sotsialisticheskoi revoliutsii, 1947. v. 2, p. 217-37, port.) *Title tr.*: Progress in permafrost research in the U.S.S.R.

Contains résumé of 19th-century knowledge of frozen ground and survey of progress in permafrost research in the Soviet period, mentioning various permafrostologists particularly M. I. Sumgin: "The activities and achievements of various institutions set up for the study of permafrost problems in U.S.S.R. are described. The 1930 unification of work under the Academy of Sciences Committee on Permafrost is emphasized as a milestone in the history of this undertaking. The work of the Committee was centered on the following activities: (1) the determination of southern boundary of permafrost; (2) the investigation and determination of the thickness of permafrost; (3) the study of the temperatures of permafrost at various depths; (4) observations of the growth and degradation of permafrost; and (5) methods of mining in permafrost regions. From 1930 until 1947 the Committee published 15 vols. of Trudy (Proceedings) and 26 books and pamphlets dealing exclusively with the problems of permafrost."—SPIRE.

*Copy seen:* DLC.

**24782. OBRUCHEV, VLADIMIR AFANAS'EVICH, 1863-** . Zemlia Sannikova. Moskva, Gos. izd-vo geograficheskoi literatury, 1951. 294 p. illus., map. *Title tr.*: Sannikov Land.

First published in 1924.

Contains a fictional story of an expedition to Sannikov Land at the beginning

of the 20th century, by a party of political exiles in the Indigirka region, led by a scientist interested in the Arctic. Some actual islands, as well as the real conditions and difficulties of exploration and travel in the East Siberian Sea are described according to the scientific knowledge of the time when the book was written. An appendix (p. 283-92) gives a factual account of the repeated searches for the island *Ākov Sannikov* claimed to have sighted northeast of the New Siberian Islands about 1805-1806, in which he was confirmed by some later explorers. The author advances some theories about the failure to find the island, the existence of which, he suggests is not precluded. *Copy seen:* CaMAI.

**24783. OBRUCHEV, VLADIMIR AFANAS'EVICH, 1863-** . *Zolotonosnye raiony Ākutii. (In: Akademiā nauk SSSR, Leningrad. Poleznye iskopaemye i transportnā problema Ākutii, 1930. p. 3-32, fold. map) Title tr.: The gold fields of Yakutia.*

Characteristics of Yakut ASSR as a gold-producing province; historical summary of gold prospecting and mining in the area; its general geological outlines; division of the gold-producing areas into nine districts shown on fold. map, scale 1:12,600,000: (1) in the upper basin of the Olekma River; (2-6) in the upper basin of the Aldan River (especially in the Timpton River valley about 57° N. 126° E.); (7) in the central basin of Vilyuy River; (8) in the upper basin of the Indigirka River; and (9) in the upper basin of the Kolyma River. Statistics of gold production for each district, indicating that the richest gold deposits (developed by the All-Union State Trust "Aldanzoloto") with gold production to 1927 of over 20,000 kg., are situated in the basin of the Timpton River (right tributary of the Aldan, about 58°46' N. 127°06' E.). Prospects for the gold mining industry. Bibliography (4 items).

*Copy seen:* DLC.

**24784. O'BRYAN, DERIC.** Archeological investigations on Mill Island, 1951. (Arctic circular, Mar. 1952. v. 5, no. 3, p. 28-29)

*Contains* the log, and report on the excavation by the author and Daniel von H. Rogers of an old Eskimo winter house on Mill Island in Hudson Strait (63°59' N. 78° W.) of which a preliminary study had been made in 1927. 350 artifacts representative of Dorset Culture were

collected, including harpoon heads, knife handles, sledge runners, toys and ornaments, all of ivory, bone or antler; stone tools and implements; some wooden and leather implements preserved in the permafrost. These together with refuse, appear to represent a 2-3 year sojourn by two families of late Dorset Eskimos who had had some contact with advancing Thule culture. Collecting of botanical and geological specimens and map work is noted.

*Copy seen:* DLC.

**24785. OBSHCHESTVO IZUCHENĪA URALA, SIBIRI I DAL'NEGO VOSTOKA, MOSKVA.** *Kratkii otchet o deiatel'nosti . . . za period 1924-27 gg. Moskva, 1927. 48 p. Title tr.: Brief report on the activity of the Society for the Study of the Urals, Siberia and the Far East, in the period 1924-27.*

*Contains* note of field trips and publications.

*Copy seen:* DLC.

**24786. ODELL, NOEL EWART.** Project "Snow Cornice." (Discovery, July 1951. v. 12, p. 216-18, illus.)

Description of the Seward ice field, the great peaks of the St. Elias Mts., the difficulties of doing geological research in the high glacial region where, since 1948 the Arctic Institute of North America's Project Snow Cornice led by Walter A. Wood, has been conducting glaciological, geological, meteorological and botanical research.

*Copy seen:* DLC.

**24787. ODELL, NOEL EWART.** The St. Elias Mountains and the first ascent of Mount Vancouver. (Canadian geographical journal, July 1951. v. 43, p. 36-48, illus., incl. sketch map)

Account of Project Snow Cornice, 1949 on the Seward ice field; the mountains and glaciers of the area and, in some detail, the first ascent of Mt. Vancouver, completed on July 5.

*Copy seen:* DGS; DLC; DSI-M.

**24788. ODELL, NOEL EWART.** Yukon-Alaska Expedition of the Arctic Institute of North America. (Nature, Mar. 4, 1950. v. 165, p. 337-38)

Note on Project Snow Cornice, 1949, for which the author was geologist, with brief résumé of geologic features of the St. Elias Range in the region of Seward Glacier, Mts. Vancouver, Logan and St. Elias.

*Copy seen:* DLC.

**24789. ODHNER, NILS HJALMAR, 1884-** . Norwegian Solenogastres.

(Bergen, Norway. Museum. Aarbok; naturvidenskabig række, 1918-1919, pub. 1921, nr. 3, p. 1-86, plates 1-6)

Contains a critical revision of Norwegian species of the molluscan order Solenogastres, based on the study of collections in the museums of Bergen, Copenhagen, Gothenburg, Kristiania and Trondhjem, with a synopsis of all the forms treated in this paper and a descriptive section, (p. 10-54) dealing with systematics, morphology and distribution of each of 12 Norwegian species, including five native to Greenland Sea and the Arctic Ocean. A comparative section contains general consideration of the organization and the relations of the Solenogastres, a Bibliography (38 items).

**Copy seen:** MH-Z.

**24790. ODHNER, NILS HJALMAR, 1884-** . Swedish high mountain Mollusca. (In: Brinck, P. S. V., and K. G. Wingstrand. *Mountain fauna of Virihaure*, 1949-51, pt. 2, p. 26-50, illus., text map)

Contains descriptive notes, dimensions and data on distribution in the Virihaure area (mostly in Virihaure Lake) of Lule Lappmark and other regions, of 28 species of fresh-water molluscs; bibliography (37 items). **Copy seen:** MH-Z.

**ÖHRLING, JOHAN, b. 1718, see Lindahl, E., & J. Öhring.** Lexicon lapponicum. 1780. No. 23855.

**24791. OFFMAN, P. E.** Novye dannye po istorii razvitiia Timana. (Akademiia nauk SSSR. Izvestiia. Serii geologicheskaiia, 1949, no. 1, p. 3-18, illus.) **Title tr.:** New data on the history of the development of Timan.

Contains a description of the development of the Timan Ridge (64° N. 52° E. in Arkhangel'sk province) since the Proterozoic era, with data on its tectonic structure, proving that it is of platform type and developed as a result of irregular lowering of Moscow and Pechora synclinal folds.

**Copy seen:** MH.

**24792. OFFMAN, P. E.** O proiskhozhdenii valov vostochnoi chasti russkoi platformy v sviazi s issledovaniiami na Srednem Timane. (Akademiia nauk SSSR. Izvestiia. Serii geologicheskaiia, 1946, no. 4, p. 95-121, illus.) **Title tr.:** Origin of the banks of the eastern part of the Russian plain in connection with the investigation of the Middle Timan.

"The Paleozoic formations of the cen-

tral Timan range on the eastern border of the Russian plain, U.S.S.R., were not subjected to geosynclinal folding, but to vertical crustal movements which formed a series of horsts and grabens."—Geological Society of America, *Bibliography & Index of Geology*, 1951, pub. 1952, v. 16, p. 228. Summary in English.

**Copy seen:** MH.

**24793. OGANOVSKIĬ, NIKOLAIĬ PETROVICH, 1874-** . Narodnoe khoziaistvo Sibiri; epizodicheskiĭ kurs lektsii, pročitannykh na kooperativnykh kursakh dlia sluzhashchikh i rabochikh kooperativnykh organizatsii gor. Omska v fevrale-marte 1920 goda. [Omsk] Izd. Sibotd-niia vseros. tsentr. soiuza potreb. ob-v, 1921. 175 p., fold. maps, diags. **Title tr.:** The national economy of Siberia; an episodic course of lectures delivered to the cooperative courses for the employees and workers of the cooperative organizations of the city of Omsk in February and March 1920.

Contains information on the geography of Siberia; the Russian and native population (Chukchis, Koryaks, Kamchadals, Tungus, and others); agriculture; fisheries, including arctic waters, Okhotsk and Bering Seas; forests and forest products; mining; industry and trade; transport, including the north Siberian rivers and arctic sea routes; the cooperative movement.

**Copy seen:** DLC.

**24794. OGANOVSKIĬ, NIKOLAIĬ PETROVICH, 1874-** . Ocherki po ekonomicheskoi geografii Rossii, v sviazi s mirovym khoziaistvom, po novelim statisticheskim materialam. Chast' 1. Sel'skoe khoziaistvo. Moskva, Novaiia derevnia, 1922. 238 [2] p., illus., maps. **Title tr.:** Outline of the economic geography of Russia, in relation to world economy, by the latest statistical materials. Part 1. Agriculture.

Lectures given at Moscow University, including treatment of the colonization of Siberia and arctic branches of agriculture: reindeer management, hunting and fisheries.

**Copy seen:** DLC.

**24795. OGAWA, YASUAKI.** Bōkan-yō no hifuku ni tsuite. (Seppyō, 1939. v. 1, p. 125-34, incl. illus., tables graphs) Text in Japanese. **Title tr.:** On winter cloth.

"The weight, thickness and air content are tabulated for 18 winterized cloth materials and for seven combinations of these materials. Windproof materials

with high air content are briefly described. The principle of combining materials is briefly discussed. Thermal insulation of various materials is measured in relation to the energy required to maintain a body temperature of 36° C. The heat loss was measured for 18 samples in calm air at -40° C. and the results tabulated. Special attention is given the efficiency of Japanese paper."—Abstract by Ukitirō Nakaya for SIPRE.

**Copy seen:** CaMAI; DSG (photostat).

**OGILVIE, MARY**, see Lepp, E., & others. Effect danilone dicumaryl on frostbite. 1952. No. 23784.

**24796. OGLOBLIN, DMITRIĬ ALEK-SEEVICH.** Novye vidy r. *Aphthona* Chevr. (Coleoptera, Halticini) v kollektsii Zoologicheskogo muzeia Akademii nauk SSSR. (Akademiiā nauk SSSR. Zoologicheskii muzei. Ezhegodnik 1926, pub. 1927. t. 27, vyp. 4, p. 283-308, illus.) **Title tr.:** New species of the genus *Aphthona* Chevr. (Coleoptera, Halticini) in the collection of the Zoological Museum of the Academy of Sciences U.S.S.R.

**Contains** Latin diagnoses and critical notes on 12 new species of coleopterous genus *Aphthona*, including *A. tolli* and *A. jukuta* n. spp. from the Yakutsk region, eastern Siberia.

**Copy seen:** DLC; MH-Z.

**24797. OGNEV, SERGEĬ IVANOVICH, 1886-** . Novye dannye po sistematike i geograficheskomu rasprostraneniū nekotorykh vidov sem. Mustelidae. Moskva, 1928. 30 p. (Obschestvo ljubitelei estestvoznaniia, antropologii i etnografii, Moskva. Zoologicheskoe otdelenie. Memuary, 1928, vyp. 2) **Title tr.:** New data on the systematic and the geographical distribution of some species of the family of Mustelidae.

**Contains** data on systematics and geographic distribution of 20 forms (6 subspecies new) of the genera *Kolonocus*, *Mustela* and *Putorius* (martens sables, weasels) of the fam. Mustelidae, including 4 species distributed from the Arkhangel'sk region through northern Asia to Chukotsk Peninsula and one species *Mustela erminea arctica* native to Kamchatka Peninsula and Alaska (Pt. Barrow-Kodiak Island). Summary in English.

**Copy seen:** MH-Z.

**24798. OGNEV, SERGEĬ IVANOVICH, 1886-** . Obzor letiag (*Pteromys*) vodšahchikhskā v SSSR. (Moskovskoe

obschestvo ispytatelei prirody. Būlleten', 1934. Otdel. biol. Novaiā seriā. t. 43, vyp. 2, p. 303-315) **Title tr.:** Review of the flying squirrels (*Pteromys*) living in U.S.S.R.

**Contains** a critical study of 7 species of flying squirrels (*Pteromys*) of the U.S.S.R. with Russian and English descriptions, critical notes and data on distribution; includes *P. volans*, native to northern Scandinavia, Kola Peninsula and Arkhangel'sk province and *P. volans incanus* found in Yakutia, eastern Siberia. Summary in English, p. 310-315.

**Copy seen:** DLC; MH-Z.

**24799. OGNEV, SERGEĬ IVANOVICH, 1886-** . Sistematičeskii obzor burundukov (*Eutamias sibiricus*) nashel fauny. (Moscow. Universitet. Uchenye zapiski, 1935. Vyp. 4, Biologičesk. p. 91-95) **Title tr.:** Review of the chipmunks inhabiting U.S.S.R.

**Contains** a study of five geographic races of Siberian chipmunk, *Eutamias sibiricus*, based on examination of 350 specimens, including *E. sibiricus jacutensis* subsp. nov. distributed in Yakutia and spreading to the Kamchatka region. Summary in English.

**Copy seen:** DLC; MH-Z.

**24800. OGNEV, V. V., and D. M. TSY-PANOV.** Olenevodstvo v raionakh kralnego severa Komi ASSR. (Sotsialisticheskoe zhivotnovodstvo, Jan. 1951. v. 14, no. 1, p. 45-51, illus.) **Title tr.:** Reindeer farming in the areas of the far North of the Komi A.S.S.R.

**Contains** an account of the history and development of reindeer breeding of the area; its spread; development after the revolution; financial and technical aid; effects of collectivization; and of the general development and industrialization of the area; size and weight of local animals; their food; horns, fur and skins; organization of herds and pasture; reindeer products and production; achievements in the three-year development plan of animal husbandry; incomes; plans for the future. **Copy seen:** DLC.

**24801. OGNEV, V. V., and N. F. SHUMILIN.** Razvedenie tonkorunnykh oveĉ v raionakh Pechory. (Sotsialisticheskoe zhivotnovodstvo, Sept. 1951. v. 13, no. 9, p. 31-33, illus.) **Title tr.:** Breeding of fine-wooled sheep in the Pechora districts.

**Contains** sections on the prewar conditions of sheep breeding in the area;

work on introduction of half-fined woolled sheep begun in 1937; its results; description of the new race obtained by cross-breeding the local coarse-wooled stock with an introduced race; yields in milk and wool; quality of wool, etc.

**Copy seen:** DLC.

**24802. OGOLEVETS, G. S., and others.** *Énšiklopedičeskii slovar' lekarstvennykh, éfirnosušaniichnykh i iádovitykh rastenii.* Moskva, Gosud. izd-vo sel'skokhoz. literatury, 1951. 486 p., illus., col. plates 1-20. **Title tr.:** Encyclopedic dictionary of medicinal, essential oil and poisonous plants.

Prepared by a group of twenty-nine specialists, under the direction of G. S. Ogolevets and six associated editors. *Contains* in an alphabetic arrangement, descriptions of all medicinal, essential oil and poisonous plants of Russian flora, including some species of seed plants and cryptogams (algae, mosses, lichens and liverworts) native to northern regions of the U.S.S.R. Includes data on their uses in medicine, agriculture and industry, chemical analyses and indication of geographic distribution; subject index, p. 455-73, index of Latin-Russian botanical names, p. 474-86.

**Copy seen:** MH-A.

**OHMANN, G. H.,** *see* Moberg, A. *Sammandrag klimat. anteckn. Finland 1878-93. 1879-94.* No. 24399.

**24803. OIL AND GAS JOURNAL.** Oil search in Alaska. (Oil and gas journal, Mar. 30, 1950. v. 48, no. 47, p. 74, sketch map)

Note on plans for 1950 for seven drill tests to be made in Naval Petroleum Reserve no. 4, in the region of Point Barrow, northern Alaska, with map showing types of work completed on the Reserve.

**Copy seen:** DGS.

**24804. OINONEN, VÄINÖ JOHANNES.** *Kolmen valtakunnan kota-Lappia.* Helsinki, Kustannusosakeyhtiö Otava, 1947. 180 p., illus. **Title tr.:** The "tent" Lapps in three countries.

On the basis of his travels in Lapland, particularly Finnish Lapland, over many years, the author describes the Lappish way of life and culture; remarks on the semi-nomadic Lapps (lit. "tent" Lapps); the nature and extent of Lapland, its roads and towns; the Lappish language and Lapps' fluency in the Finnish, Swedish and Norwegian languages; the

town of Karesuvanto; reindeer; insects; the annual reindeer fair at Karesuvanto; dwellings of the Lapps; reindeer-grazing areas; Lapp areas in Sweden; reindeer raising in Norway; the Lapp dog; gnomes; mythology and spirits, healers, songs, etc.

**Copy seen:** DLC.

**24805. OKAMURA, KINTARO.** *Algae from Kamchatka.* (Records of oceanographic works in Japan, 1928. v. 1, p. 52-55, 3 plates)

Notes on six species of marine algae, description of *Laminaria palmaeformis* sp. nov. and discussion of taxonomic relations of *Hedophyllum spirale* Yendo.

**Copy seen:** DI.

**24806. OKKO, VEIKKO.** Ancient clay balls in Finnish eskers. (Suomen geologinen seura, Helsinki. Julkaisuja, 1951. no. 24 (Finland. Commission géologique. Bulletin 154 p. 127-35, illus.)

*Contains* a study and comparison of clay balls found in Finnish eskers with those from Las Posas Barranca, California. The genesis and origin of balls from several Finnish localities is traced from their structure; the relation of some of them to the last phase of glaciation is suggested. Bibliography (18 items).

**Copy seen:** CaMAI; DLC.

**24807. OKKO, VEIKKO.** *Moränenuntersuchungen im westlichen Nordfinnland.* Helsinki, 1944. 46 p., illus., map, diagrs. (Finland. Geologiska kommission. Bulletin, v. 23, no. 131) **Title tr.:** Investigations on moraines in the west of northern Finland.

*Contains* chapters on: description and analysis of the rocky bottom of the moraine; relation of the moraine to the rocky bottom; petrographical and mechanical structure of the moraine; podsolization of the moraine; the moraine and plant growth. Bibliography (28 items).

**Copy seen:** DLC.

**24808. OKKO, VEIKKO.** *Moreeniaines ja pohjavesi kasvimaantieteellisinä tekijöinä "Lapin kolmiossa".* (Terra, 1946. v. 58, p. 13-26, maps, table, diagrs.) **Title tr.:** Moraine deposits and groundwater as phytogeographical factors in the "Lapland-triangle."

On the basis of previous investigations author describes the bedrock in the so-called "Lapland triangle," the area (about 66°-67°30' N. 24°-25° E.) between lower Tornio and Kemi Rivers in northern

Finland. Noting moraine drift as the most common Quaternary deposit of the area, he classifies petrographic composition of the moraine deposit into types comparable with the rock ground types. These types form habitats of different values for vegetation and the characteristic vegetation of each is determined.

The formation and composition of ground water is discussed and its effect on vegetation, particularly the fact that its mineral components favor the development of *Saxifraga hirculus* birch bogs, termed the most luxuriant peat bogs. Author comments on Finnish localities (in the "Lapland triangle" and elsewhere) of such peat bogs. Bibliography (15 items). Summary in English.

**Copy seen:** DLC.

**24809. OKLADNIKOV, ALEKSEĬ PA-VLOVICH.** Drevnie shamanskĭe izobrazheniia iz vostochnoi Sibiri. (Sovetskaiia arkheologiia, 1948. t. 10, p. 203-225, 20 illus.) **Title tr.:** The old shamanistic images from eastern Siberia.

*Contains* description of 20 human faces made of bronze or iron and used as part of the shamanistic costume, mostly among the Tungus. Some of the images are about 2000 years old, they can be divided into eastern and western groups according to their form; the author based his work in part on that of A. A. Spitsyn and V. I. Anuchin, q. v.

**Copy seen:** DLC.

**24810. OKLADNIKOV, ALEKSEĬ PA-VLOVICH.** Istoricheskie rasskazy i legendy Nizhnei Leny. (Akademiia nauk SSSR. Muzei antropologii i etnografii. Sbornik, 1949. t. 11, p. 73-109) **Title tr.:** Historical narratives and legends from the Lower Lena.

*Contains* text (in Russian) of 62 Yakut narratives having some connection with the past of these people. They refer to dwelling places in olden times, to old cemeteries and specific accidental happenings, etc., to old inhabitants of the Yakut country and their relations, etc. The stories were written down by the author who participated in the Archaeological Expedition to the Lower Lena 1942-43 with the editing help of A. A. Popov. The Yakuts in this region speak their native language, mixed with some Tungus words; they are nomadic reindeer breeders; the semi-settled Yakuts live in the Lena delta, breed dogs, hunt wild reindeer and do fishing.

**Copy seen:** DLC.

**24811. OKLADNIKOV, ALEKSEĬ PA-VLOVICH.** Iz istorii obshchestvennykh otnoshenii u Yakutov v XVII. veke. (Legendy o Tygyne i istoricheskaiia del'svitel'nost'). (Sovetskaiia etnografiia, 1949. no. 2, p. 98-118, map) **Title tr.:** History of relations among Yakuts in the 17th century. (Legends of Tygyn and historical facts).

*Contains* an historical sketch of the Yakuts of the 16-17th century especially of the reign of the "Yakut Czar" Tygyn. Based on native legends and on notes of a contemporary, I. A. Lindeman, it includes the reign of Tygyn's father and deals largely with the wars which he waged against the neighboring Yakut tribes. At the end of these campaigns, Tygyn extended his rule over the Yakut tribes along the lower Lena.

**Copy seen:** DLC.

**24812. OKLADNIKOV, ALEKSEĬ PA-VLOVICH.** K voprosu o naznachenii neoliticheskikh kamennykh ryb iz Sibiri. (Akademiia nauk SSSR. Institut istorii material'noi kul'tury. Materialy i issledovaniia po arkheologii SSSR, 1941. no. 2, p. 193-202, illus.) **Title tr.:** On the question of the purpose of the neolithic stone fish in Siberia.

*Contains* discussion on the naturalistic stone-carvings of fish, found in burial places and neolithic sites in Siberia and North America. Formerly these stone-carvings were considered as objects of cult; the author, however, attempts to prove them to be practical in purpose, used as lures in fishing. Such a fishing technique is said to have been used by Yakuts, Tungus, Aleuts, Samoyeds, Orochi, Eskimos and Algonkins. 17 examples of the neolithic and later forms are shown in illus. Summary in French.

**Copy seen:** DLC.

**24813. OKLADNIKOV, ALEKSEĬ PAVLOVICH.** Kul't medvedia u neoliticheskikh plemen vostochnoi Sibiri. (Sovetskaiia arkheologiia, 1950. t. 14, p. 7-19, 3 illus.) **Title tr.:** The bear cult among the neolithic tribes of Western Siberia.

*Contains* account of the prehistoric art of Siberia in which stone and wood carvings of reindeer and bear are the common figures. The cult and rites of the bear are noted especially in regard to its importance to shamanistic ideology. In the social organization, the two phratries of reindeer and bear are quite

obvious; parallels of the bear head sculptures in the Lake Baykal region and in North America.

*Copy seen:* DLC.

**24814. OKLADNIKOV, ALEKSEĬ PAVLOVICH.** Lenskie drevnosti. Vypusk pervyi. Otechet ob arkhéologicheskikh issledovaniakh v nizov'akh reki Leny (Ākutsk-Zhigansk) v 1942-1943 gg. [Ākutsk,] 1945. 94 [5] p., illus., maps. (Materialy po drevnei istorii Ākutii) *Title tr.:* Lena antiquities. Part 1. Report on archeological research on the lower section of the Lena River (Yakutsk-Zhigansk) in 1942 and 1943.

Following a general outline of the difficulty and paucity of archeological work in the area, due mainly to the severe climate, author reviews past achievements and nature of the country; describes investigations carried on by the Lena Historical Archeological Expedition at 15 points along a route of 760 km. Remains were found from the neolithic, bronze, and the early, middle, and late iron age. Summary in English.

*Copy seen:* DLC.

**24815. OKLADNIKOV, ALEKSEĬ PAVLOVICH.** Pervyi neoliticheskii pamiatnik Chukotskogo poluostrova. (Akademiia nauk SSSR. Institut istorii material'noi kul'tury. Kratkie soobshcheniia, 1950. vyp. 31, p. 196-98) *Title tr.:* The first neolithic monuments of the Chukotsk Peninsula.

Contains a classification (4 types described) and evaluation of the flint artifacts found in the summer of 1947 in central Chukotka by N. N. Levoshin, q. v. It is stressed that these are the only archeological remains so far found in the interior (as contrasted with the coast) of the peninsula. They represent the only relics found in this area of an ancient, continental culture of migrant tundra hunters, akin to those of the lower Lena and Kolyma; these artifacts are the oldest traces of man on this peninsula, which is considered to have been inhabited by sea-animal hunters probably not earlier than 500 A. D.

*Copy seen:* DLC.

**24816. OKLADNIKOV, ALEKSEĬ PAVLOVICH.** Proiskhozhdenie ākutskogo naroda (Vsesoiūznoe geografičeskoe obshchestvo. Izvestiia, 1951. v. 83, p. 341-52) *Title tr.:* The origin of the Yakut people.

Contains a discussion of the views on the origin of the Yakuts in which the author defends the ideas of Stalin against those of N. Ā. Marr. On the basis of historical, ethnological and linguistic evidence, the author comes to the conclusion that the Yakuts originated in the South, probably in Central Asia, whence they migrated to their present location. Bibliography (9 items).

*Copy seen:* DLC.

**24817. OKLADNIKOV, ALEKSEĬ PAVLOVICH.** Russkie polārnnye morekhody XVII veka u beregov Taymyra. Moskva, Izd-vo Glavsevmorputi, 1948. 156 p., illus. map. *Title tr.:* Russian arctic seafarers of the 17th century on the Taymyr coast.

Contains a description of relics found in 1940-41, also later by a special expedition of the writer in 1945 on Faddeya Island (77° N. 107°50' E.) and in Simms Bay. These finds throw new light on Russian trading and hunting in this area at the beginning of the 17th century. A reconstruction of the early voyagers' life, occupations, trade and travels is offered, on the basis of these finds and other sources.

*Copy seen:* DLC.

**24818. OKSANEN, KAINO WILHELM-ILINA, 1884-** . Arktisesta ilmastosta. (Terra, 1914. 26, p. 125-58, diagrs., table) *Title tr.:* Arctic weather.

Contains data on the area of arctic weather; air temperature and pressure; winds; clouds, rain and fog; electrical storms; effect of arctic climate on people; fauna and flora.

*Copy seen:* DLC.

**24819. OKSANEN, KAINO WILHELM-ILINA, 1884-** . Karten über die Gewittertage in Finnland. Helsinki, 1940. 24 p., 5 plates, maps, table. (Finland. Meteorologinen keskuslaitos. Toimituksia. Meteorologische Zentralanstalt. Mitteilungen, no. 21) *Title tr.:* Maps on thunderstorm-days in Finland.

Based on observations from 65 stations, five of them above the Arctic Circle, the report covers the years 1887-1936. Has monthly average maps for single months from May to September; one map for each of the periods: January-April and October-December, and one annual average map for the period 1908-1917.

*Copy seen:* DLC.

**24820. OKSANEN, KAINO WILHELM-ILINA, 1884-** . Kevään ensimmäinen ja syksyn viimeinen ukonilma. (Terra,

1949. 61:2, p. 83-86, diags.) **Title tr.:** The spring's first and the autumn's last thunderstorm.

**Contains** statistical data on dates of occurrence of thunderstorms 1908-47 in Sodankylä and eight other more southerly places in Finland. Summary in English.

**Copy seen:** DLC.

**24821. OKSNER, ALFRED NIKOLAEVICH, 1898-** . Nemoral'nyi element v likenoflore Sovetskoi Arktiki. (Akademiā nauk SSSR. Botanicheskii institut. Materialy po istorii flory i rastitel'nosti SSSR, 1946. vyp. 2, p. 475-90)

**Title tr.:** Nemoral elements in the lichen flora of the Soviet Arctic.

**Contains** a study of nemoral lichens in three regions: Kola Peninsula, Poluy River (66° N. 68° E.) in western Siberia, and Chukotsk Peninsula, with lists of typical forms, study of their origin, and the time and ways of their penetration into arctic regions. Summary in English.

**Copy seen:** MH-A.

**24822. OKUN', S. B.** Ocherki po istorii kolonial'noi politiki v Kamchatskom krae. (Leningrad, Ogiz, 1935. 151 p., illus., maps. **Title tr.:** Outline of the history of colonial policy in Kamchatka.

**Short documented history of Russian relations in the Czarist régime with natives of Kamchatka: conquest of Kamchatka, revolt of Kamchadals in 1731-32, wars with Koryaks in 1745-56 and with Chukchis in 1729-31 and 1742-52; activity of the Russian church, supporting Russian colonization and enslavement of natives; methods of economic exploitation previous to the Soviet Revolution. Illustrations include reproductions of old maps and engravings. Bibliographical and documentary footnotes.**

**Copy seen:** DLC.

**24823. OL', A. I.** Liniī vodoroda v spektre poliarnykh siānii. (Priroda, Sept. 1951. v. 40, no. 9, p. 46-47, diagr.) **Title tr.:** Hydrogen lines in the spectrum of aurora borealis.

**Contains** a discussion of the appearance of hydrogen line in the spectrum of auroras reported frequently since 1939 (in 1940 in Tromsø, northern Norway), with data from some spectrograms and notes on possible connection with fluctuation of solar activity.

**Copy seen:** DLC; MH.

**24824. OL', A. I.** Novye issledovaniā poliarnykh siānii. (Priroda, Sept. 1950.

v. 39, no. 9, p. 3-14, illus.) **Title tr.:** New investigations of the aurora borealis.

**Contains** data on the principal types of auroras, their geographical distribution (sketch map, p. 5), connection with magnetic disturbances (table 1); relation between aurora borealis and solar activity; altitude, spectrum and various theories of the origin of northern lights.

**Copy seen:** MH.

**OL', LIDIĀ ALEKSANDROVNA, 1884-1943, see** Elenkin, A. A., & L. A. Ol'. Bibliog. al'golog. trudov 1931-35. 1950. No. 21630.

**OL', LIDIĀ ALEKSANDROVNA, 1884-1943, see also** Elenkin, A. A., & L. A. Ol'. Dopolnitel'nye dannye po bibliog. II. 1950. No. 21631.

**24825. OLANDER A. I.** Suupohjan seudun jääuurteista. (Terra, 1933. 45: 1, p. 29-33, illus.) **Title tr.:** Striae in the Suupohja area.

**Description (with 4 photographic illus.) of striae and roches moutonnées with two facets (indicating direction of glacial action) in the Pohjanmaa (southern Ostrobothnia) coastal region.**

**Copy seen:** DLC.

**24826. OLBERG, GUNTER.** Kamera-Jagd auf den Mornell-Regenpfeifer im arktischen Norwegen. (Natur und Volk, Mai 1952. Bd. 82, p. 165-70, illus.) **Title tr.:** A hunt with the camera, for the golden plover in arctic Norway.

**Contains** a brief, popular account of some field observations, along with photographs of *Charadrius morinellus* made in the high tundra of the Tromsø region of Norway. **Copy seen:** DGS.

**24827. OLDENBERG, LORENZ, 1863-1931.** Beiträge zur Kenntnis der paläarktischen *Rhamphomyien* (Dipt.). (Kownowia, 1927. Bd. 6, heft. 1, p. 1-29) **Title tr.:** Contributions to the knowledge of palaearctic species of *Rhamphomyia* (Dipt.)

**Contains** a description of *Lundstroemiella*, a subgenus of the dipterous genus *Rhamphomyia*, a key to its species and descriptions of 11 species of that subgenus and seven species of subgenera *Holoclera*, *Pararhamphomyia* and *Dasyrhamphomyia*, ten species described as new to the science. Includes *Lundstroemiella hybentina*, *Pararhamphomyia dentipes* and *P. niveipennis*, native to Swedish Lapland.

**Copy seen:** MH-Z.

**OLDENBURG, S. F.**, see Castrén, M. A. Pamäti M. A. Kastrena. 1927. No. 21135.

**24828. OLDENDOW, KNUD, 1892-** Administration og retspeje gennem tiderne; forholdet mellem Danske og Grønlaendere. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 2, p. 17-38, illus.) **Title tr.:** The course of administration and justice; relations between Danes and Greenlanders.

Traces the development of Greenland's political history from the 18th century to 1946. Bibliography (12 items).

**Copy seen:** DLC.

**24829. OLDROYD, LOREN T.** Special report on dairy herd. (In: U. S. Dept. of the Interior. Pribilof Islands Survey Group; Pribilof Island survey report, 1949) 3 p. mimeographed.

Specific recommendations for a modern dairy plant, new beef stock, and improvement of present herd of 34 cattle; with notes on poultry, rabbit raising, gardening, and need for agricultural supervisor.

**Copy seen:** DAI.

**OLDROYD, LOREN T.**, see also U. S. Dept. of the Interior. Pribilof Islands Survey Group. Pribilof Island survey reports. Observ. 1949. No. 26947.

**24830. OLENEV, N. O.** Materialy k poznaniu kleshchei (Ixodoidea) palearkticheskoi fauny. (Akademiya nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1929. t. 30. vyp. 2, p. 305-314, illus., plate 30) **Title tr.:** Contribution to knowledge of the ticks (Ixodoidea) in palaearctic fauna.

Contains a systematic list of 41 species of acaridan arachnids or ticks (Ixodoidea) of Russia with brief data on distribution and descriptions of 4 new species; includes *Izodes putus*, native to the Kamchatka Peninsula, Komandorskiye Islands and Aleutian Islands and *Dermacentor variiegatus* var. *kamtschadalis* from Kamchatka.

**Copy seen:** DLC; MH-Z.

**24831. OLENEV, N. O.** Ob ovodakh severnogo olenia. (Priroda, Oct. 1950. v. 39, no. 10, p. 67-68, illus.) **Title tr.:** On deer flies of the northern reindeer.

Contains data on two tabanids, *Oedemagena tarandi* and *Cephenomyia trompe*, pests of the northern reindeer, and on harm done the animals by the larvae; based on the author's observations on the Murman coast.

**Copy seen:** DLC; MH.

**24832. OLENEV, N. O.** Paraziticheskie kleshchi Ixodoidea fauny SSSR. Leningrad, Izd-vo Akademii nauk SSSR. 1931. 125 p., illus. (In: Akademiya nauk SSSR. Opredeliteli po faune SSSR. no. 4) **Title tr.:** Parasitic ticks Ixodoidea of the fauna of the U.S.S.R.

Contains in the general part (p. 1-47): the order Acarina and its systematic division, importance of Ixodoidea in public health and in agriculture, their classification, morphology, biology, ecology, geographic distribution, bibliography (23 items). In the systematic part are keys to the families, genera and species (males, females, imagines, larvae and nymphae), descriptions of about fifty ticks, with synonymy, hosts (man, domestic and wild animals, birds, a few reptiles), and data on geographic distribution. Includes a few species native to Kamchatka Peninsula; indexes of Russian and Latin names. **Copy seen:** MH-Z.

**24833. OLENEV, N. O.** Severnye granitsy rasprostraneniya kleshchei Ixodoidea na materikakh zemnogo shara. (Akademiya nauk SSSR. Izvestiya, seriya 7. Otdelenie matematicheskikh i estestvennykh nauk 1934. no. 2-3, p. 367-88, plates 1-5) **Title tr.:** Northern limits of distribution of ticks (Ixodoidea) on continents of the globe.

Contains a study of world distribution of 71 species of ticks (Ixodoidea); parasitic on domestic animals and men, arranged by the genera, including *Izodes*, found on the White Sea coast, Kamchatka, Mednyy (Copper) Island (Bering Sea) and Alaska; and *Dermacentor* native to Kamchatka Peninsula. Descriptions of three new species are given and a bibliography (59 items). Summary in French.

**Copy seen:** MH.

**24834. OLENIUS, LAURI.** Ilmakuvat Pohjois-Suomen metsataloudessa. (Metsä-taloudellinen aikakauslehti. (Finska forstföreningen), 1951. no. 1, p. 25, 26, illus., table) **Title tr.:** The use of aerial photographs in the forestry of north Finland.

Notes successful use of aerial photographs in making volume estimates of northern forests otherwise difficult to survey; their possible use in general forestry inventories. Summary in English.

**Copy seen:** DA.

**24835. OLESON, T. J.** Polar bears in the Middle Ages. (Canadian historical review, Mar. 1950. v. 31, p. 47-55)

Documented from the late 9th century, record of the polar bear and bear traps in hunting territories based on Greenland and Iceland where this animal was taken by Norsemen for trade. It was prized as a live pet in royal courts in Europe.

**Copy seen:** DSI-M.

**24836. OLIV, A. A.** Dvadšatiletie kito-boľnoi flotilii "Aleut." (Rybnoe kho-zjastvo, Oct. 1952. v. 28, no. 10, p. 16-17, illus.) **Title tr.:** Twenty-year jubilee of the whaling flotilla *Aleut*.

*Contains* a brief account of the initial difficulties and experience of this flotilla; increase in production; total production in the 20 years (10,000 whales; 63,000 tons of oil); the flotilla (consisting recently of the whaling factory *Aleut* as mother ship and four other units) as training base for whalers. The flotilla is at present based in the Maritime Province.

**Copy seen:** DLC.

**OLIVER, JACK**, see Cray, A. P., & others. Geophysical studies Beaufort Sea 1951. 1952. No. 21303.

**24837. OLIVER, NOLA NANCE, 1880-** . Alaskan Indian legends; illus. by Frances Brandon. New York, House of Field-Doubleday [c1947]. 67 p., illus.

Tales and legends collected by the author among the Tlingit Indians of Southeast Alaska and presented and illustrated here in a style suitable for children.

**Copy seen:** DLC.

**24838. OLLILA, ONNI.** Muutamia korkeusmääräyksiä Lapissa. (Terra, 1904. 16:5-6, p. 357-60) **Title tr.:** Some elevation determinations in Lapland.

*Contains* data (1) on the formula used to determine elevations in various places in Lapland, and (2) the determination for Lake Inari, which previously had had three varying determinations.

**Copy seen:** DLC.

**24839. OLLILA, ONNI.** Muutamia korkeusmääräyksiä Lapissa. Helsingfors, 1907. 4, 1, p., fold. map. (Geografiska föreningen i Finland. Meddelanden, 1904-1906. Bd. 7, no. 4) **Title tr.:** Some elevation determinations from Lapland.

*Contains* an explanation of the methods used in determining the elevations shown on accompanying map. 69°-70° N. 26°-29° E. Summary in German.

**Copy seen:** DLC.

**24840. OLOFSSON, OSSIAN.** Südwas-ser-Entomostraken und -Rotatorien von der Murmanküste und aus dem nord-lichsten Norwegen. (Zoologiska bidrag från Uppsala, 1917. Bd. 5, p. 259-94, illus., plate 6) **Title tr.:** Fresh-water Entomostraca and Rotatoria from the Murman coast and northernmost Norway.

*Contains* data on morphology and systematics of 24 species of entomostracous crustaceans and 24 microscopic wheel animalcules (rotifers) collected by the author on Kola Peninsula, Murman coast, and near Vardö, Finnmark, Norway. Species are listed by localities with notes on habitat; and a systematic list of the species is given with dimensions and data on abundance, geographic distribution and preference for certain water-basins (see table on p. 288-89); bibliography (153 items).

**Copy seen:** MH-Z.

**24841. OLRİK, AXEL.** The sign of the dead. (Finnisch-ugrische Forschungen, 1912. Bd. 12, p. 40-44)

*Contains* investigation of a passage in the so-called Nārō Ms., written by the priest Johan Randulf in 1723, "An account of the Finn-Lapps' Idolatry", which includes a description of the heathen sacramental rite performed by the Laplander before taking christian sacrament. Author concludes that this rite (with its "sign of the dead") can have been borrowed only from Scandinavians.

**Copy seen:** DLC; InU.

**OLSON, SIGURD, 1899-** , see Shelford, V. E., & S. Olson. Sere, climax & influent animals. 1935. No. 26101.

**24842. OLSSON, H., and W. SCHÜEPP.** Die atmosphärische Trübung in Spitzbergen. (Geografiska annaler, 1950. v. 32, no. 3-4, p. 210-19, 2 fig., 5 tables) **Title tr.:** Atmospheric turbidity in Spitsbergen.

"Actinometric and psychrometric data for the summer of 1934, obtained on Isachsen-Plateau in West Spitsbergen, are used to compute various parameters of atmospheric transparency in different wave lengths, water vapor content, turbidity coefficient, etc. Comparisons are made with other latitudes and diurnal changes in radiation intensity in different wave lengths and aspects made graphically."—*Meteorological abstracts and bibliography*, Aug. 1952. v. 3, no. 8, p. 572.

**Copy seen:** DGS; MH-BH.

**24843. OLSUF'EV, NIKOLAI GRIGOR'EVICH.** Materialy po faune slepnel' Leningradskoi oblasti. (Akademiia nauk SSSR. Zoologicheskii institut. Parazitologicheskii sbornik, 1934. t. 4, p. 111-201, illus.) **Title tr.:** Contribution to the fauna of horseflies of the Leningrad region.

*Contains* a critical revision of horseflies (fam. Tabanidae) of the Leningrad region including Kola Peninsula, with historical notes, geographic distribution, dynamics (tables 1-4), keys to the genera and descriptions of 35 species, including some from Kola, with notes on ecology and distribution; bibliography (17 items); a list of 116 localities, including 24 in the Kola Peninsula. Summary in German.

**Copy seen:** DA; MH-Z.

**OLSUF'EV, NIKOLAI GRIGOR'EVICH,** see also Shtakel'berg, A. A., & others. Opredelitel' mukh evropeiskoi chasti SSSR. 1933. No. 26156.

**24844. O'MALLEY, HENRY, 1876-** Fur-seal industry of Pribilof Islands, Alaska. Washington, 1930. 15 p., illus., incl. map. (U. S. Fish and Wildlife Service. Economic circular no. 71)

General pamphlet on distribution of fur seals, history of their exploitation in Bering Sea and need for their protection; the modern sealing industry, the natives and blue foxes of the Pribilof Islands.

**Copy seen:** DI.

**24845. OMANG, SIMEN OSCAR FREDRIK, 1868-** Descriptiones specierum novarum e stirpe Hieracii alpini, II. (Nytt magasin for naturvidenskapsene, 1951. Bd. 88, p. 87-155) **Title tr.:** Descriptions of the new *Hieracium* species of alpine origin, II.

*Contains* Latin diagnoses of 73 new species and varieties of the herbaceous genus *Hieracium* of the alpine flora of Norway, including 19 native to Nordland, Tromsø and Finnmark, northern Norway; a continuation of the part I published in 1949 (*Arctic Bibliography* No. 12818). **Copy seen:** DGS; MH-Z.

**24846. OMEL'CHENKO, T. M.** Issledovanie zheludochnogo soka u golubykh pestsov. (Karakulevodstvo i zverovodstvo, Jan.-Feb. 1952. god 5, no. 1, p. 72-73, illus.) **Title tr.:** A study of the gastric juice of blue foxes.

*Contains* information on the practical value of the study; techniques applied and the results of physical, chemical and

microscopical examinations of stomach juices.

**Copy seen:** DLC.

**24847. OMININ, L.** Granity Kol'skogo raiona i Karelii, kak keramicheskii material. (Karelo-Murmanskii krai, 1933. v. 11, no. 7-8, p. 53-55, tables) **Title tr.:** Granites of the Kola region and of Karelia, as ceramic material.

*Contains* information on the location of the relevant deposits, followed by chemical and physical analyses of granite varieties suitable for porcelain and faience manufacture.

**Copy seen:** DLC.

**24848. O'NEILL, HESTER.** The picture story of Alaska. New York, David McKay Co., inc., 1951. [49] p., illus.

Pictures in color by Ursula Koering, and text describing (for children) life, people, travel and adventure in Alaska.

**Copy seen:** DLC.

**24849. O'NEILL, J. B.** Winter control traverse surveys in Canada. (Surveying and mapping, Apr.-June 1952. v. 12, no. 2, p. 111-17, illus.)

*Contains* a general account of a winter field-survey Jan.-Apr. 1949 in a region from the Rocky Mts. eastward to the Liard River basin. The itinerary: 507 miles along the Toad and Dunedin Rivers, through Fort Liard to Fort Nelson; travel and weather conditions (+15° F. to -62.5° F.) are noted. Personnel, organization, transportation (aircraft and dog trains), field, and technical equipment, clothing, health and morale of the party, survey operations, efficiency of the winterized instruments, etc., are described.

**Copy seen:** DLC.

**24850. OPHEIM, MAGNE.** Eldre funn av Macro-Lepidoptera. (Norsk entomologisk tidsskrift, 1951. Bd. 8, hefte 4-5, p. 207-217, illus.) **Title tr.:** Some earlier finds of Macrolepidoptera.

*Contains* a list of 34 species of large butterflies and moths of Norway, with critical notes and data on habitat and distribution in Scandinavia; including at least four species native to northern regions of Norway. **Copy seen:** MH-Z.

**24851. OPHEIM, MAGNE.** To dagsommerfugler med vestlig utbredelse i Norge. (Bergen, Norway. Universitet. Aarbok; naturvidenskapelig rekke, 1948, pub. 1949. no. 5, p. 1-11, illus., plates 1-2) **Title tr.:** Two day-butterflies with western distribution in Norway.

*Contains* critical notes and data on distribution in western Norway of two

species of butterflies, of which one is *Cyclopides palaemon*, spreading close to the Arctic Circle and also known from Swedish and Russian Lapland. Summary in English. **Copy seen:** MH-Z.

**OPPEL, T. W.**, see Hardy, J. D., & T. W. Oppel. Stimulation of cold end organs human skin. 1938. No. 22421.

**OPPENHEIMER, H. L.**, see Metzger, L., & others. Trial by ice. 1952. No. 24314.

**24852. OPPENHEIMER, M. J., and A. McCRAVEY.** Circulation time in man at low temperatures. (American journal of physiology, May 1940. v. 129, p. P434-35)

Contains a brief account of circulation time in relation to skin and rectal temperatures in patients made hypothermic. In all three groups studied there was an increase of circulation times in hypothermic subjects as compared with those with a normal body temperature.

**Copy seen:** DLC.

**24853. OPPENHEIMER, M. J., and A. McCRAVEY.** Pulmonary circulation time in man at low body temperatures. (Society for Experimental Biology and Medicine. Proceedings, Mar. 1941. v. 46, p. 513-99, 3 tables)

Contains a study on patients whose internal temperature was lowered "toward 85° F." Circulation times, effect of anesthesia and of shivering, and the effects of cooling on pulse rate and blood pressure are discussed. Pulmonary circulation was prolonged in the hypothermic subjects, a correlation with rectal temperature existing only when the femoral vein was injected; shivering shortened the circulation time or minimized its prolongation due to hypothermia.

**Copy seen:** DLC.

**OPYT SOVETSKOĬ MEDITSINY V VELIKOĬ OTECHESTVENNOĬ VOĬNE 1941-1945 GG.** see Ar'ev, T. Ĭ., & others. Otmorozheniia. 1951. No. 20301.

Ryss, S. M. Tsynga. 1951. No. 25748.

**ORANZHEREEVA, A. M.**, see Akademiia nauk SSSR. Khibinskaiâ gornaiâ stantsiia. Khibinskaiâ gornaiâ stantsiia. 1934. No. 20100.

**24854. ORCHYMONT, ARMAND d', 1881-** . Revision d'une espèce d'Hydro-

philide de Zetterstedt suivie de la discussion d'un "Philydrus" de Thomson. (Opuscula entomologica, 1938. Bd. 3, häft. 1-2, p. 7-10) **Title tr.:** Revision of one species of *Hydrophilus* of Zetterstedt followed by a discussion of one *Philydrus* of Thomson.

Contains a critical study of *Hydrophilus nigricans* described by Zetterstedt in his *Insecta lapponica*, 1840, q. v., with a list of synonyms.

**Copy seen:** DA; MH-Z.

**24855. ORDIN, A.** Velikiĭ lëchik nashogo vremeni Valerii Pavlovich Chkalov. Stenogramma publichnoi lektsii prochitanol v . . . Moskve. Moskva [Pravda] 1949. 24 p. port. (Vsesoiūznoe obshchestvo po rasprostraneniū politicheskikh i nauchnykh znaniĭ) **Title tr.:** The great flier of our time, Valerii Pavlovich Chkalov. Stenogram of a public lecture delivered in . . . Moscow.

Contains the text of a lecture delivered before the All Soviet Society for Dissemination of Political and Scientific Knowledge on the life and career of V. Chkalov (1904-1938); his exploits as flier and test pilot; his flight from Moscow across the North Pole to Portland, Ore. June 18-20, 1937; his political activity, war services, influence on Soviet aviators, etc.

**Copy seen:** DLC.

**OREKHOV, N. I.**, see Kurushin, F. M., & N. I. Orekhov. Mashiny i orudiia lesorazvedeniia. 1949. No. 23551.

**24856. OREL, P. KH.** Dal'nevostochnaiâ rybnaiâ promyshlennost' v 1932 godu. (Rybnoe knozhāfstvo Dal'nego Vostoka, 1931. no. 11-12, p. 4-11) **Title tr.:** The Far Eastern fisheries industry in 1932.

A brief statistical account of fishes caught and all kinds of fish products manufactured in the area, with comparison in several instances to earlier years' production.

**Copy seen:** DLC.

**24857. ORLOV, A. V.** Aktivnaiâ terapiia obshchego okhlazhdeniia (zamerzaniia) v svete klinicheskikh nablūdeniĭ. (Klinicheskaiâ meditsina, Dec. 1951. t. 29, no. 12, p. 28-36, 3 fig.) **Title tr.:** Active therapy in general hypothermia (freezing) according to clinical observations.

Contains a study made during 1942-1944 on 73 cases of general hypothermia of all three degrees, males aged 18-55 being involved. Body and rectal tem-

peratures as well as arterial blood pressure during hypothermia are given; several case histories (one with alcohol intoxication) are presented. The principal of quick rewarming is reaffirmed as the only and best therapeutic procedure. Bibliography (16 items).

*Copy seen:* DLC.

**24858. ORLOV, B. P.** Fedor Petrovich Litke, zamechatel'nyĭ puteshestvennik i uchenyi, (k 150-letiiu so dnâ rozhdeniâ); stenogramma publichnoi lektsii, prochitannoi 8 apreliâ 1948 goda v tsentral'nom lektorii obshchestva v Moskve. Moskva, Izd-vo "Pravda", 1948. 22 p., port., map. (Vsesoiuznoe obshchestvo po rasprostraneniû politicheskikh i nauchnykh znaniĭ) *Title tr.:* Fedor Petrovich Litke, remarkable Russian navigator and scientist, (on the occasion of the 150th anniversary of his birth); stenograph of the public lecture delivered on the 8th of April, 1948, in the central lecture hall of the Society in Moscow.

*Contains* a brief biographical sketch of Litke 1797-1882, an outline of his travels and discoveries presented in chronological order (including his northern voyages on the *Novaya Zemlya* in 1821-24, and his round-the-world voyage of 1826-29 on the *Senâvin*); an appreciation of his personality and attainments, both against the background of his times as well as within the field of exploration.

*Copy seen:* DLC.

**24859. ORLOV, F. B., and V. M. VESNIN.** Bol'she vnimaniâ vozobnovleniû severnykh lesov. (Lesnoe khoziâlstvo, Nov. 1952. v. 5, no. 11, p. 72-74, table) *Title tr.:* More attention to renewal of northern forests.

*Contains* an account of the significance and state of forests in arctic European Russia, specifically in the Arkhangel'skaya Oblast'. The failure of natural renewal; the small scale of reforestation and its principal cause, lack of trained personnel, are discussed. Other requirements for local afforestation are pointed out; proper seeds and seeding, further care, introduction of new forms, experimental work.

*Copy seen:* DLC.

**24860. ORLOV, F. B.** Dendarii Arkhangel'skogo lesotekhnicheskogo instituta. (Lesnoe khoziâlstvo, July 1952. v. 5, no. 7, p. 91) *Title tr.:* The arboretum of the Arkhangel'sk Forestry Institute.

*Contains* note on work of the institute

over 18 years, in the introduction of new trees and shrubs into the area; the kinds introduced and their origin; places where they are distributed (local parks and arctic settlements); information service, etc.

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**24861. ORLOV, G. A.** Okhlazhdenie v vode ("vlazhnaâ konechnost"). (Khirurgiâ, 1949. no. 9, p. 17-25) *Title tr.:* Chilling in water ("wet extremity").

*Contains* information on the first mass appearance of cold immersion damage in the Soviet army in 1942; previous studies of the problem; differences from injuries by "dry" cold; pathology and clinical studies based on 34 cases, one of them a woman; case histories; therapy.

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**24862. ORLOVA, E. P.** Khoziâstvennyiĭ byt lamutov Kamchatki. (Sovetskaiâ Aziâ, 1928. no. 5-6, p. 84-99, tables) *Title tr.:* Economic life of the Kamchatka Lamuts.

*Contains* an economic survey based on the census of 1926-27: reindeer breeding was the chief industry, e. g. 30 Lamut families owned 19,274 head of reindeer, also kept horses (134) and dogs (332) for herding and hunting purposes, and for use as draft animals; hunting and trapping of fur-bearers (mostly red foxes) remained important in the economy, with fishing increasing in importance; other industries of significance were dressing and utilization of hides; making of clothing, tools and implements; blacksmith work, etc. The average earnings of a family in 1925/26 was 9,000 rubles; scarcity of essential commodities and faulty functioning of Gostorg are noted as hampering to the economic life.

*Copy seen:* DLC.

**ORLOVA, N. S.,** see U.S.S.R. Tsentral'nyi gosudarstvennyiĭ arkhiv drevnikh aktov. Otkrytiâ, XVII v. 1951. No. 26883.

**24863. ORLOVSKIĬ, P. N.** Anadyrskochukotskoe olenevodstvo. (Sovetskaiâ Aziâ, 1928. god 4, no. 1, p. 45-54, tables) *Title tr.:* Reindeer breeding in the Anadyr-Chukotsk region.

*Contains* statistics (drawn from census of 1926-27) on reindeer in the region: a total of 395,000 head in 484,000 sq. km. Notes on (then) present-day methods of animal husbandry among the Chukchis and what should be done to improve the stock. *[Copy seen:* DLC.

**24864. ORLOVSKIĬ, P. N.** God Anadyrsko-Chukotskogo olenevoda. (Sovetskafä Aziä, 1928. god 4, no. 2, p. 60-70) *Title tr.:* A year of reindeer-breeding in the Anadyr-Chukotsk.

*Contains* sketch of the present-day life of the Chukchi reindeer breeders throughout the year. The division of work between members of a family and their obligations, the calendar (13 months) and three principal feasts, nomadism, preparation of food, etc.

*Copy seen:* DLC.

**24865. O'ROURKE, FERGUS J.** Myrmecological notes from Narvik, northern Norway. (Norsk entomologisk tidsskrift, 1950. Bd. 8, hefte 1-3, p. 47-50).

*Contains* the account of the author's observations on the ants in the vicinity of Narvik, northern Nordland, during his short trip to that town on Aug. 19, 1948. Five of the 15 species of ants known to occur in northern Norway were collected in a very small area and interesting observations on the insect behavior were made.

*Copy seen:* DA; MH-Z.

**ORR, JOHN L.,** *see* Polar record. Low temp. laboratory. 1952. No. 25158.

**24866. ORR, ROBERT THOMAS, 1908-** Cetacean records from the Pacific coast of North America. (Wasmann journal of biology, 1951. v. 9, p. 147-48)

*Includes* observations on length, color, and teeth of a male Scammon blackfish (*Globiocephala scammoni*) from the Alaska Peninsula, where it had been shot and hauled to shore in 1937, a cetacean not known to have been taken hitherto north of California.

*Copy seen:* DSI-M.

**24867. ORSTADIUS, ERNST TE-ODORE.** Anmärkningsvärda fynd av småfjärilar. (Entomologisk tidskrift, 1932. Årg. 53, häft. 2-3, p. 108-113, illus.) *Title tr.:* Noteworthy finds of small lepidoptera.

*Contains* a list of 24 small butterflies, rare or new to the lepidoptera fauna of Sweden, with localities and data on distribution; includes *Gelechia norvegica* found in Råneå district, coastal region of Norrbotten (about 66° N.), and descriptions of four new aberrations. Summary in German.

*Copy seen:* DA; MH-Z.

**24868. ORSTADIUS, ERNST TE-ODORE.** Några anteckningar om fjäril-

fynd i Pajala, Norrbottens län. (Entomologisk tidskrift, 1913. Årg. 34, häft. 2-4, p. 215-30) *Title tr.:* Notes on some butterflies of Pajala, Norrbotten province.

*Contains* a systematic list of about 100 butterflies (in 20 families) collected in Pajala parish, Norrbotten, Sweden, with critical notes and data on distribution.

*Copy seen:* DLC; MH-A.

**24869. ORSTADIUS, ERNST TE-ODORE.** Några i Råneå, Norrbottens kustland, anträffade fjärilar, huvudsakligen småfjärilar. (Entomologisk tidskrift, 1931. Årg. 52, häft. 2, p. 167-70) *Title tr.:* Some lepidoptera found in Råneå, on the seacoast of Norrbotten, chiefly small ones.

*Contains* general notes on the lepidopterous fauna of Råneå coastal region of Norrbotten (about 66° N.), and a list of about 100 butterflies and moths found in that region with data on their distribution in other provinces of Sweden.

*Copy seen:* DA; MH-Z.

**ORTELIIUS, ABRAHAM,** *see* Tallgren, B. A. Ortelius' karta 1570. 1909. No. 26591.

**ORTMANN, ARNOLD EDWARD, 1863-1927,** *see* Klüuge, G. A. Zur Kenntnis d. Bryozoen. 1908. No. 23301.

**24870. ORVIG, SVENN.** The climate of the ablation period on the Barnes Icecap in 1950. (Geografiska annaler, 1951. v. 33, p. 166-209, illus., 3 maps, diags.)

*Contains* report on meteorological observations carried out on the icecap by the Baffin Island Expedition of the Arctic Institute of North America during June-Aug. 1950. "The regime of the icecap, the ablation at the Main Camp, and the meteorological conditions at the edge and at the Main Camp, both at the surface and at various levels above the surface were investigated. Observations included pressure, temperature, and humidity at 3 ft. and at 23 ft. above the surface, temperature at 13 ft., wind speed and direction at 7 ft. and at 23 ft. above the surface. Clouds, cloudiness, fog, visibility, and ceiling were recorded. Maximum and minimum temperatures and precipitation were observed 3 times daily. Snowfall was measured by stakes, rain by means of rain gages. Two thermistors were placed at 4 m. and 2.5 m. below the surface of the ice and read throughout the summer. No firn was found anywhere

on the icecap, and 89 cm. of snow were measured on the ice near the highest point. The ice thickness under the Main Camp was 466 m. The increase in temperature with height was nearly linear, 0.13° F./ft. between 3-23 ft. The frequency distribution of temperatures shows that the icecap acts as temperature stabilizer."—SIPRE.

**Copy seen:** DGS; DLC.

**ORVIG, SVENN**, *see also* Baird, P. D., & others. Baffin I. Exped. 1950; prelim. report. 1950. No. 20413.

**24871. ORVIN, ANDERS KRISTIAN, 1889-**. Expeditionen des Norsk Polarinstitut im Jahre 1950. (Polarforschung, 1950, *pub.* 1951. Bd. 2, Jahrg. 20, p. 363-65) **Title tr.:** Expeditions of the Norwegian Polar Institute, 1950.

Notes on vessels, personnel and objectives of parties on Jan Mayen, Svalbard, in the Antarctic and northeast Greenland.

**Copy seen:** DGS.

**24872. ORVIN, ANDERS KRISTIAN, 1889-**. Norwegische Bestrebungen zur Sicherung der Schifffahrt auf Svalbard. (Polarforschung, 1951. Bd. 3, Jahrg. 21, p. 72-75) **Title tr.:** Norwegian efforts for safety in shipping to Svalbard.

History of the installation of navigational aids (beacons, lights, radio signals) in Svalbard waters, mostly since 1930.

**Copy seen:** DGS.

**24873. ORVIN, ANDERS KRISTIAN, 1889-**. Twenty-five years of Norwegian sovereignty in Svalbard, 1925-50. (Polar record, July 1951. v. 6, no. 42, p. 179-84, *illus.*)

*Contains* a survey by the deputy director of the Norsk Polarinstitut, Oslo, of the development of the archipelago (74°01' N. 10°-35° E.) sovereignty of which was vested in Norway by the Treaty of Paris, Feb. 9, 1920. Following an historical sketch of mining property claims of various countries and their settlement, author outlines present-day law and administration; 25 years' scientific work under Norwegian auspices: air surveys; navigation beacons and wireless; radio with a broadcasting station at Longyearbyen; wildlife protection; communications and tourism; fisheries, glaciological research; geological work, coal mining and production damage to mines and other installations in World War II.

**Copy seen:** DLC.

**ORVIN, ANDERS KRISTIAN, 1889-**, *see also* Polarårboken. Norsk Polarinstitut. 1951. No. 25177.

**24874. OSARA, N. A., and others.** Suomen puun käyttö ja metsätase. Helsinki, 1948. 166 p., tables, maps. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 36:4) **Title tr.:** Wood utilization and forest balance in Finland.

*Other authors:* V. Pöntynen and E. E. Erkkilä.

*Contains* a statistical survey of the forests (pine, birch, spruce, alder and aspen) including localities in North, with comparison of the data for northern and other sections of the country. Bibliography (100 items). Summary in English.

**Copy seen:** DLC.

**OSBORN, SHERARD, 1822-1875**, *see* Illustrated arctic news, 1852. No. 22800.

**24875. OSBORNE, DOUGLAS.** Late Eskimo archaeology in the western Mackenzie delta area. (American antiquity, July 1952. v. 18, no. 1, p. 30-39, 32 *illus.*, sketch map)

*Contains* report on a nine-day exploration trip to the shore areas along the arctic coast between Shingle Point and Blow River, Yukon Territory, by the University of New Mexico Mackenzie Valley Expedition of 1938: ten Eskimo graves and five house sites were discovered and examined. The burials and structures are found to be typical of the Eskimos as a whole. The dead wrapped in skins, uncoffined bodies shrouded, sleds and kayaks broken over the grave, etc.; the materials collected (latter 19th-early 20th century in date) are largely of Western Thule in form. Close cultural continuity from Point Barrow to the Mackenzie is indicated by comparison with Murdoch's and Stefansson's collections. Athapaskan influence is apparently demonstrated by the bark boxes and umiak-canoe found.

**Copy seen:** DLC.

**24876. OSHANIN, VASILII FEDOROVICH, 1844-1917.** Tables générales des publications de la Société Entomologique de Russie, ainsi que des articles, des synopses et des formes nouvelles y contenues, 1859-1908. St. Petersburg, 1910. 282 p. (Russkoe entomologicheskoe obshchestvo. Trudy (Horae) 1909. t. 38, Supplément) **Title tr.:** Table of contents of the publications of the Entomological Society of Russia and also of the

papers, synopses and new forms published in them from 1859 to 1908.

*Contains* a list of scientific publications of the Society, p. 1-13; an alphabetical list of papers, p. 14-125; a subject index of the papers, p. 126-39; a table of synopses in systematic order, p. 140-54; and an alphabetical list of groups and new forms described in publications of the Society arranged in systematic order, p. 155-281.

*Copy seen:* MH-Z.

**24877. OSHMARIN, P. G.** K faune gel'mintov ptits Dal'nego Vostoka (Kamchatka, Zemliã Koriãkov i Kuril'skie ostrova). (Akademiiã nauk SSSR. Gel'mintologicheskaiã laboratoriiã. Trudy, 1950. t. 2, p. 166-79, illus.) *Title tr.:* Contributions to the fauna of parasitic worms of birds of the Far East (Kamchatka, Koryak Land and the Kurile Islands).

*Contains* an enumeration of 18 species of parasitic worms of birds, with descriptions of seven new species; includes 16 species found in the intestine of birds collected on Kamchatka and Chukotsk Peninsula in 1946. *Copy seen:* MH-Z.

**24878. OSHMARIN, P. G.** Rabota 260-I Soûznõl gel'mintologicheskõl èkspeditsii 1946 g. (Akademiiã nauk SSSR. Gel'mintologicheskaiã laboratoriiã. Trudy, 1951. t. 5, p. 207-219) *Title tr.:* Activity of the 260th Soviet helminthological expedition of 1946.

*Contains* the results of a study of the parasitic worms (trematodes, cestodes, nematodes, etc.) collected from various whales (*Balaenoptera*, *Physetor*, *Megaptera* and *Hyperoodon*), marine fishes (20 species) and aquatic and terrestrial birds (29 species). The material was secured during the author's trip on the whaler *Aleut* from Petropavlovsk, Kamchatka, to Vladivostok, in 1946. Data are tabulated on p. 214-18. *Copy seen:* MH-Z.

**24879. OSIPOV, K.** Pervye russkie polãrnye morekhody. Moskva, Gosudarstvennoe uchebno-pedagogicheskoe izd-vo Ministerstva Prosveshcheniã RSFSR, 1949. 101 p., illus. *Title tr.:* The first Russian arctic seamen.

A school manual dealing with: early western European interest in the Russian Arctic; navigators in the Arctic; 16th and 17th century Russian navigators in the Arctic; Dezhnev and his voyage from the Kolyma to the Anadyr, 1648; the first Kamchatka Expedition of Bering, 1725-30; Bering's second expedition 1734-43;

voyages to northwest America and Japan; exploration of the northern coasts of Russia. Bibliography (30 items).

*Copy seen:* DLC.

**OSLO. UNIVERSITET, see** Natvig, L. R. Entomologien ved Kgl. Frederiks Univ. 1943. No. 24584.

**24880. OSMOLOVSKIÏ, G. E.** Lesokhoziãstvennoe znachenie dolgonosikov-smolevok. (Entomologicheskoe obozrenie, 1948. t. 30, no. 1-2, p. 60-67, diagr.) *Title tr.:* The importance of pine-weevils in forestry.

*Contains* a list of 14 species of pine weevils of the genus *Pissodes*, the larvae of which cause considerable damage to coniferous trees in Russia, including *P. pini* var. *interstitiosus* (Yakutia), *P. gyllenhali* (Arkhangel'sk province and Okhotsk region), *P. irroratus* (Yakutia) and *P. insignatus* (Northern Urals). Data are given on their economic importance in forestry, their destructiveness to various trees.

*Copy seen:* MH-Z.

**24881. OSSIANNILSSON, FREJ, 1908-** Bidrag till kãnnedomen om den svenska skõldusfaunan (Hom. Coccoidea). (Opuscula entomologica, 1951. Bd. 16, hæft. 1-2, p. 1-9) *Title tr.:* Contributions to the knowledge of the Swedish coccid fauna (Hom. Coccoidea).

*Contains* a study of Swedish bark lice (Coccoidea) with a systematic list of 34 species, including *Newsteadia floccosa* from Åsele and Lycksele Lappmark and *Arctothezia calaphracta*, native to Swedish Lapland and Tromsø, Norway; with data on geographic distribution, phenology and host plants.

*Copy seen:* DA; MH-Z.

**24882. OSSIANNILSSON, FREJ, 1908-** Bidrag till kãnnedomen om Sveriges Hemiptera (Cicadina, Psyllina, Heteroptera). (Opuscula entomologica, 1939. Bd. 4, hæft. 1-2, p. 23-29) *Title tr.:* A contribution to the knowledge of Swedish Hemiptera (Cicadina, Psyllina, Heteroptera).

*Contains* critical notes on 12 cicadas, one jumping plant louse (*Psylla*), and two species of heteropterous genus *Eurygaster*; includes *Deltocephalus neglectus* from Abisko region, Torne Lappmark, and *D. zanthoneurus* from Norrbotten. Summary in German.

*Copy seen:* DA; MH-Z.

**24883. OSSIANNILSSON, FREJ, 1908-** Bidrag till kãnnedomen om Sveriges

Homoptera Cicadina, I. (Entomologisk tidskrift, 1934. Årg. 55, häft. 2, p. 129-39)  
**Title tr.:** Contributions to the knowledge of Homoptera Cicadina of Sweden, I.  
 Contains a systematic list of about 125 species of cicadas with localities; includes 24 species native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**24884. OSSIANNILSSON, FREJ, 1908-** . Catalogus insectorum Sueciae, VII. Hemiptera Heteroptera. (Opuscula entomologica, 1947. Bd. 12, häft. 1-3, p. 1-33, text map) **Title tr.:** Insect catalog of Sweden, VII. Hemiptera Heteroptera.

Contains a systematic list of 511 true bugs of Scandinavia with tabulated data on their distribution in 30 natural regions of Scandinavia, including the whole of Lapland and Norrbotten, and in adjoining countries, followed by notes on 55 species. For other parts, see *Catalogus insectorum Sueciae*, I-XII. **Copy seen:** MH-Z.

**24885. OSSIANNILSSON, FREJ, 1908-** . Catalogus insectorum Sueciae, VIII. Hemiptera Homoptera Auchenorrhyncha. (Opuscula entomologica, 1948. Bd. 13, häft. 1, p. 1-25, text map) **Title tr.:** Insect catalog of Sweden, VIII. Hemiptera Homoptera Auchenorrhyncha.

Contains a systematic list of 327 species of Scandinavian homopters with tabulated data on their distribution in 30 regions of Sweden, including all Lapland's regions and Norrbotten, and in adjoining countries, supplemented by notes on 25 species. For other parts, see *Catalogus insectorum Sueciae*, I-XII.

**Copy seen:** DA; MH-Z.

**24886. OSSIANNILSSON, FREJ, 1908-** . Catalogus insectorum Sueciae, XII. Hemiptera Homoptera Psylloidea. (Opuscula entomologica, 1952. Bd. 17, häfte 3, p. 193-200, text map) **Title tr.:** Insects catalog of Sweden XII. Hemiptera Homoptera Psylloidea.

Contains tabular data on distribution of 78 species of psyllids inhabiting Sweden, including all Lapland regions, Norrbotten and adjacent areas; remarks on 17 of these species; for other parts, see *Catalogus insectorum Sueciae*, I-XII.

**Copy seen:** MH-Z.

**24887. OSSIANNILSSON, FREJ, 1908-** . Einige Bemerkungen zur schwedischen Cicadinenfauna. (Opuscula entomologica, 1936. Bd. 1, häft. 2, p. 47-51) **Title tr.:** Some notes on Swedish Cicadina fauna.

Contains critical notes on eleven cicadas in the collection of the Swedish State Museum (Riksmuseum) at Stockholm, including *Deltocephalus falleni*, occurring in Arvidsjaur and Avaviken regions in Pite Lappmark.

**Copy seen:** DA; MH-Z.

**24888. OSSIANNILSSON, FREJ, 1908-** . Hemiptera. (In: Brinck P. S. V., & K. G. Wingstrand. *Mountain fauna of Virihaure*, 1949-51, pt. 2, p. 51-59)

Contains a systematic list of 27 bugs inhabiting the Virihaure region of Lule Lappmark, with data on habitat, and the local and Scandinavian distribution.

**Copy seen:** MH-Z.

**24889. OSSIANNILSSON, FREJ, 1908-** . Hemipterologiska notiser. (Opuscula entomologica, 1943. Bd. 8, häft. 1-2, p. 12-19) **Title tr.:** Hemipterological notes.

Contains descriptive notes and data on geographic distribution of 21 species new to hemipterous fauna of Sweden, including *Psylla palmeni*, found in Gällivare, Lule Lappmark, and Haparanda, Norrbotten.

**Copy seen:** DA; MH-Z.

**24890. OSSIANNILSSON, FREJ, 1908-** . Några för Sverige nya eller hos oss föga beaktade Hemiptera. (Het., Cic., Psyll., Aph.). (Opuscula entomologica 1941. Bd. 6, häft. 2-4, p. 50-56) **Title tr.:** Some new or neglected Swedish Hemiptera.

Contains critical notes on 26 bugs new to the hemipterous fauna of Sweden or neglected by Swedish entomologists; includes *Empoasca rufescens* and *Micranthia fennica* occurring in Norrbotten.

**Copy seen:** DA; MH-Z.

**24891. OSSIANNILSSON, FREJ, 1908-** . Eine neue Art der Gattung *Cicadula* (Hemiptera, Homoptera) aus Nordschweden. (Entomologisk tidskrift, 1935. Årg. 56, häft. 3-4, p. 127-28, illus.) **Title tr.:** A new species of the genus *Cicadula* (Hemiptera Homoptera) from northern Sweden.

Contains a Latin diagnosis of *Cicadula empetri* n. sp., a cicada found by the author in various localities in Pite Lappmark on the sub-shrub *Empetrum nigrum* (black crowberry); it was probably described by J. Sahlberg as a variety of *C. sernotata* from Russian Lapland living on the same plant.

**Copy seen:** DA; MH-Z.

**24892. OSSIANNILSSON, FREJ, 1908-** . Nomenclatorial remarks on some Swedish Cicadina with description of a new species of the genus *Empoasca* Walsh. (Opuscula entomologica, 1941. Bd. 6, häft. 2-4, p. 67-70, illus.)

Contains critical notes on four (one new) Swedish species of cicadas including *Psammotettix breviceps*, native to Asele and Torne Lappmark.

**Copy seen:** DA; MH-Z.

**24893. OSSIANNILSSON, FREJ, 1908-** . Revision von Zetterstedts lappländischen Homopteren, I. Cicadina. (Opuscula entomologica, 1938. Bd. 3, häft. 3-4, p. 65-79) **Title tr.:** Revision of Zetterstedt's Homoptera of Lapland, I. Cicadina.

Contains a critical revision of Homoptera recorded by Zetterstedt in his *Insecta lapponica*, 1840, q. v., and *Fauna insectorum lapponica*, 1828, q. v., with a list of 78 leaf hoppers, critical notes, modern equivalents of Zetterstedt's species and data on local distribution; bibliography (23 items).

**Copy seen:** DA; MH-Z.

**24894. OSSIANNILSSON, FREJ, 1908-** . Revision von Zetterstedts lappländischen Homopteren, II. Psyllina. (Opuscula entomologica, 1942. Bd. 7, häft. 3-4, p. 57-62) **Title tr.:** Revision of Zetterstedt's Homoptera of Lapland, II. Psyllidae.

Contains a critical revision of 13 species of jumping plant lice (Psyllidae) described by Zetterstedt in his *Fauna insectorum lapponica*, 1828, q. v., and *Insecta lapponica*, 1840, q. v., with critical notes, synonymy and data on distribution in Lapland. Pt. I, Cicadina was published by Ossiannilsson in 1938 (see item above).

**Copy seen:** DA; MH-Z.

**24895. OSSIANNILSSON, FREJ, 1908-** . Släktet *Cixius* Latr. i Sverige. (Opuscula entomologica, 1941. Bd. 6, häft. 1, p. 1-5) **Title tr.:** The genus *Cixius* Latr. in Sweden.

Contains a critical revision of five Swedish species of the hemipterous genus *Cixius*, with a key to the species, critical notes and a list of localities; includes *C. cunicularius*, native to Asele and Pite Lappmark, and *C. similis* from Pite and Lule Lappmark. Summary in German.

**Copy seen:** DA; MH-Z.

**24896. OSSIANNILSSON, FREJ, 1908-** . Tva anmärkningsvärda fynd

av Heteroptera i Stockholmstrak. (Hemipterologiska notiser V). (Opuscula entomologica, 1945. Bd. 10, häft. 3-4, p. 98-99) **Title tr.:** Two noteworthy finds of Heteroptera in vicinity of Stockholm. (Hemipterological notes V).

Contains a record of finding of *Phimodera lapponica* (known previously from Torne Lappmark, Angermanland and Norrbotten) in Ekero, near Stockholm, a first record of this northern species in southern Sweden.

**Copy seen:** DA; MH-Z.

**24897. OSSIANNILSSON, FREJ, 1908-** . Über einige schwedischen Arten der Gattung *Cicadula* (Homoptera Cicadina). (Opuscula entomologica, 1936. Bd. 1, häft. 1, p. 6-11, illus.) **Title tr.:** On some Swedish species of the genus *Cicadula* (Homoptera Cicadina).

Contains a list of 15 Swedish species of cicadas of the homopterous genus *Cicadula*, with Latin descriptions of two new species, including *C. hamata* n. sp. from Pite Lappmark, and critical notes on six species native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**24898. OSSIANNILSSON, FREJ, 1908-** . Über Zetterstedts *Cicada lividella* und verwandte Arten der Gattung *Dellocephalus* (Homoptera Cicadina) mit Beschreibungen von zwei neuen Arten. (Opuscula entomologica 1938. Bd. 3, häft. 1-2, p. 1-6, illus.) **Title tr.:** On Zetterstedt's *Cicada lividella* and related species of the genus *Dellocephalus* (Homoptera Cicadina) with descriptions of two new species.

Contains a critical study of a collective species of cicadas, described by Zetterstedt (in his *Insecta lapponica*, 1840, q. v.) as *Cicada lividella*, with German diagnoses of two related species, *Dellocephalus lapponicus* n. sp. native to Arvidsjaur and *D. aquilonis* n. sp. from Kittelfjäll, Asele Lappmark.

**Copy seen:** DA; MH-Z.

**24899. OSSIANNILSSON, FREJ, 1809-** . Zur Kenntnis der schwedischen Homopterfauna mit Beschreibung der neuen Art *Erythroneura silvicola*. (Opuscula entomologica, 1937. Bd. 2, häft. 1, p. 19-27, illus.) **Title tr.:** A contribution to the Homoptera fauna of Sweden with a description of *Erythroneura silvicola* n. sp.

Contains descriptive notes on 30 species (one new) of cicadas and plant lice from various regions of Sweden, including

*Dellocephalus confinis*, *Cicadula cristata* and *C. alpina*, native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**24900. OSTENFELD, CARL EMIL HANSEN, 1873-1931, ed.** Flora arctica, containing descriptions of the flowering plants and ferns found in the arctic region, with their distribution in these countries. Ed. by C. H. Ostenfeld. Pt. I. Pteridophyta, Gymnospermae and Monocotyledons, by O. Gelet and C. H. Ostenfeld. Copenhagen, Det Nordiske forlag, 1902. xi, 134 [2] p., illus.

This part was begun by O. Gelet who died in 1899, then completed and edited by Ostenfeld. Succeeding parts were not published.

Contains a critical revision of the flowering plants and ferns of the whole arctic region, including tables for the determination of the families, genera and species and descriptions of 30 ferns and 212 species of gymnosperms and monocotyledons, with synonymy and data on geographic distribution; bibliography of all the abridgements (93 items), p. vii-xi.

**Copy seen:** MH-G.

**24901. OSTEN-SACKEN, C. R.** Studies on Tipulidae, part I. Review of the published genera of the Tipulidae longipalpi. (Berliner entomologische Zeitschrift, 1886. Bd. 20, Heft 2, p. 153-88)

Contains a critical revision of the genera of crane flies of the group Tipulidae longipalpi, with keys, descriptions, critical notes, data on distribution and synopses of the species. Includes *Xiphura agrata*, *X. nigricornis* and *Ctenophora pectinicornis*, native to Swedish Lapland.

**Copy seen:** MH-Z.

**24902. OSTERGREN, HJALMAR.** The Holothuriodea of Northern Norway. (Bergen. Norway. Museum. Aarbok, 1902, pub. 1903. no. 9, p. 1-34)

Contains a systematic list of 17 species of sea cucumbers (holothurians), collected mostly by O. Nordgaard from 67° N. lat. northward to Nordkap, with localities, data on habitat and occasional critical notes; the limits of arctic fauna and elements are also discussed.

**Copy seen:** MH-Z.

**24903. OSTERGREN, HJALMAR.** Über die Holothuriiden Norwegens. (Bergen, Norway. Museum. Aarbok, 1896, pub. 1897. nr. 12, p. 1-9, plate) **Title tr.:** On holothurians of Norway.

Contains descriptions of two species of

sea cucumbers of Norwegian waters, including *Stichopus tremulus* distributed along the western coast from the south up to Varanger Fiord, northern Norway.

**Copy seen:** MH-Z.

**24904. OSTREKIN, MIKHAIL E.** Novye magnitnye i ionosfernye stantsii v Sovetskoi Arklike. (Problemy Arktiki, 1944, pub. 1945, no. 2, p. 120-21) **Title tr.:** New magnetic and ionospheric stations in the Soviet Arctic.

Contains brief notes on the instrumental equipment and schedule of observations of the magnetic stations at Tiksi Bay, Uelen, and Kozhevnikov Bay (74°04' N. 100°17' E.), and the ionospheric station at Tiksi Bay, where the work began in 1944.

**Copy seen:** DGS.

**24905. OSTROUMOV, A. A., and M. D. SHISHMAREV.** Promernye raboty v morfakh Arktiki. Leningrad, Izd-vo Glavsevmorputi, 1940. 51 p. (Biblioteka "Stakhanovskiy Arktiki", kn. 23) **Title tr.:** Surveying in arctic seas.

Contains a study of hydrographic survey methods especially of bottom relief, with data on organization of the work, instruments and equipment, various methods used in the open sea and in coastal waters, etc.; based mostly on the experience of Soviet hydrographers in arctic seas of the U.S.S.R.

**Copy seen:** MH.

**24906. OSVALD, HUGO.** *Sphagnum flavicomans* (Card.) Warnst. Taxonomy, distribution and ecology. (Acta phytogeographica suecica, 1940. t. 13. Växtgeografiska studier tillägnade C. Skottsberg, p. 39-49, illus., plate 1)

Contains data on taxonomy, distribution and ecology of a moss, *Sphagnum flavicomans*, a species conspicuous in north European flora; an analysis of the associated plants and a list of localities, including Imandra, in Kola Peninsula, Jakobshavn in West Greenland and Labrador. **Copy seen:** DA; MH-A.

**24907. OSWALT, WENDELL H.** The archaeology of Hooper Bay village, Alaska. (Alaska. University. Anthropological papers, 1952. v. 1, no. 1, p. 47-91, illus., 9 plates)

Contains account of excavations, made in 1951 at Hooper Bay village (61°31' N. 165°55' W.) on the west Alaskan coast. Numerous objects found are described and illustrated, as well as the process

of excavation; the archeological objects are classified according to their functions: sea hunting, land hunting, fishing, tools, household, transportation, personal adornment, tobacco complex, toys, ceremonial objects and miscellaneous. In each group, description of artifacts is followed by comparison of the group with similar finds elsewhere. The investigations were initiated "in order to determine prehistoric cultural affinities between this locality [Hooper Bay] and other regions of Alaska." Using the Douglass system of tree-ring dating, the author concludes that the bottom of the midden would date shortly after 1600 A. D. Though the artifacts show similarities to widespread general forms, important specific types are common to Hooper Bay Eskimos and adjacent Ingalik Indians. Bibliography (34 items).

**Copy seen:** CaMAI; DLC.

**24908. OSWALT, WENDELL, H.** The origin of driftwood at Hooper Bay, Alaska. (Tree-ring bulletin, July 1951. v. 18, no. 1, p. 6-8)

*Contains* a study (aided by the Arctic Institute of North America and several other agencies) on the origin of spruce logs which have drifted ashore along a 3-mile section of the Bering Sea coast, opposite Hooper Bay village (ca. 61°30' N. 165°55' W.). The (small) percentage of logs suitable for study and their derivation is indicated, author noting that determination of origin of larger quantity may advance knowledge of northern ocean currents.

**Copy seen:** DAI.

**24909. OSWALT, WENDELL H.** Pottery from Hooper Bay village, Alaska. (American antiquity, July 1952. v. 18, no. 1, p. 18-29, illus., plates, map)

*Contains* account of archeological excavations carried out by the author in the summer of 1950 sponsored by Arctic Institute of North America and the Bering Strait Expedition. The material secured at this site on the West Alaskan coast (61°30' N. 166° W.) includes about 2000 artifacts and 1500 pot and lamp sherds, of which the author presents here a preliminary analysis of the cooking pots. The vessel shapes fit into the Bristol Bay-Norton Sound category of pottery (de Laguna's classification). The zig-zag and striated designs may now be added to the elements known in the region; the former, a recent innovation. The striated ware (and the flat-bottomed

pot) may be considered as the survival of an old Eskimo pottery style.

**Copy seen:** CaMAI; DLC.

**24910. OTSTAVNOVA, E. I.** Pervaia pomoshch' pri otmorozheniakh i zamerzani. (Fel'dsher i akusherka, Dec. 1950, god 15, no. 12, p. 28-31) **Title tr.:** First aid in frostbite and freezing.

*Contains* information on the damaging effect of cold on human tissues and organism; degrees of frostbite (4); new methods of first aid: quick rewarming (as against the old ways of rubbing with snow, keeping the patient in cold rooms, etc.), warm drinks, alcohol in moderate doses; massage, etc. **Copy seen:** DLC.

**24911. OTTO, FREL.** Fahrzeuge in Eis und Schnee. (Umschau, Jan. 1952. Bd. 52, p. 52-54, incl. illus., diags.) **Title tr.:** Vehicles in ice and snow.

"The Tucker Sno-Cat and a sled with four driven skis are compared. The Sno-Cat rests on four chain-skids or on two chain-skids and two steering-skids, and attains velocities of 15-25 km./hr. The ski-sled is steered by transferring the drive-energy from the two inner skis to the two outer skis. Retractable steering-skids are used in gliding and for braking. The cross section of the running ski is provided with a refined steel skid for progression on ice. A maximum velocity of 60-80 km./hr. may be attained on smooth ice surfaces. The vehicle is powered by means of a combustion motor or electrically. A description of the operating mechanism is given."—SIPRE.

**Copy seen:** DLC.

**24912. OUGHTON, JOHN GEORGE, 1909-** Great Slave Lake. (Nautilus, Jan. 1945. v. 58, p. 73-79)

A member of the Canadian Northwest Fisheries Investigations, partly describes the party's trip in summer 1944, and country traversed along the Athabasca and Slave Rivers, across Great Slave Lake to Yellowknife Bay, with remarks on the settlements at Resolution and Yellowknife; 21 species of fresh-water molluscs collected during the summer, are listed. Errata (spelling corrections) are given on p. 143 of this volume.

**Copy seen:** DSI-M.

**24913. OUSTALET, ÉMILE.** Liste des oiseaux recueillis dans le cours de la dernière campagne scientifique de S. A. S. le Prince Albert 1er de Monaco. (Paris. Muséum National d'Histoire Naturelle. Bulletin, 1899. t. 5, p. 16-17) **Title tr.:**

List of birds collected during the last scientific expedition of the Prince Albert 1st of Monaco.

Fifteen species taken during 1898 trip of the *Princesse Alice* are listed from Barents, Amsterdam, and Bear Islands and West Spitsbergen.

**Copy seen:** DSI-M.

**24914. OVERBECK, FRITZ.** Streifzüge an der Eismeerküste von Finnmarken und Lappland. Bonn, 1943. 28 p. table, maps. (Kriegsvorträge der Rheinischen Friedrich Wilhelm Universität, Bonn. a Rh. (no. 115). Vortragsreihe: "Europas Nordland.") **Title tr.:** Excursions to the arctic sea coast of Finnmark and Lapland (War-lectures of the Rheinisch Friedrich Wilhelm University, Bonn am Rhein (no. 115). Lecture series: "Europe's northern lands").

Contains brief information on Narvik and the journey to it; the arctic-sea road from Rovaniemi via Ivalo and Salmajärvi to Kirkenes and Petsamo; the landscape, reindeer, fisheries, flora and forests, climate, tundra and bogs, mountains; with accounts of the settlements of Kirkenes, Rovaniemi, Kolosjoki, Petsamo and their surroundings.

**Copy seen:** DLC.

**24915. OVERBYE, E. J.** Flyvning på Grønland. (Birket-Smith, K., and others. Grønlands bogen, 1950. v. 2, p. 147-60, illus.) **Title tr.:** Flying in Greenland.

Brief history of flights made by way of, or in exploration of Greenland from 1913 to World War II, including the pre-war use of airplanes in the Danish expeditions in northeastern Greenland, and the expeditions sent to aid in aviation research.

**Copy seen:** DSI-M.

**24916. OVERGAARD, C.** Mallophaga. (In: Brinck, P. S. V., & K. G. Wingstrand, *Mountain fauna of Virihaure*, 1949-51. pt. 2, p. 133-34, illus.)

Contains notes on six species of bird-lice parasitic on *Charadrius hiaticula*, *Legopus lagopus*, *L. nulus*, *Tetrao urogallus* and some other arctic birds found in the Virihaure region of Lule Lappmark, with data on habitat and total distribution.

**Copy seen:** MH-Z.

**OVSIANNIKOV, N. S.,** see Borisov, P. G., & N. S. Ovsinnikov. *Opredelitel' promyslovyykh ryb SSSR*. 1951. No. 20835.

**OWEN, CORA R.,** see Rosenfeld, L., & others. Circulation blood & lymph in frostbite, exper. study. 1949. No. 25656.

**24917. OWEN, RUSSELL, 1889-1952.** The conquest of the North and South Poles; adventures of the Peary and Byrd Expeditions. Illustrated by Lynd Ward. New York, Random House [1952] 181 p. illus. (Landmark books, 27)

Contains a popular account of Robert E. Peary, 1856-1920 (p. 3-86) and Richard E. Byrd, 1886- (p. 89-176) with a foreword on their exploits and place in polar and American exploration. The first part includes chapters in arctic exploration before Peary; Peary's early life; his first two polar trips (1886, 1891-92), his second Greenland expedition (1893-95), his trips between 1898 and 1902; the expedition on the *Roosevelt* (1905-1906) and wintering on Cape Sheridan; the return trip; his second expedition on the *Roosevelt* (1908-1909) and attainment of the North Pole.

**Copy seen:** DLC.

**24918. OXFORD UNIVERSITY EXPLORATION CLUB.** Oxford University Expedition to Finnmark (Norwegian Lapland) 1950. (*Its*: Bulletin no. 4, 1951, p. 12-15)

Report on work of a five-man party (F. White, leader) July-Sept. 1950 around head of Allinford, West Finnmark, to study effects of topography, drainage and rock and soil type on plant distribution and formation of peat. 800 plant specimens were collected. Blood samples taken from 200 Lapps "confirm supposition that the Lapps are definitely a Mongoloid race." Statement of costs, etc. (£611) is appended.

**Copy seen:** CaMAI.

**24919. OXFORD UNIVERSITY EXPLORATION CLUB.** The Oxford University Expedition to Jan Mayen, 1947. (*Its*: Bulletin, no. 1, 1948, p. 7-11)

Notes on the nine-man party's activities, ration scale, costs (£1,503).

**Copy seen:** CaMAI.

**24920. OXFORD UNIVERSITY EXPLORATION CLUB.** Oxford University expedition to North East Land, 1949. (*Its*: Bulletin, no. 3, 1950, p. 5-10, plate)

Account of a five-man party whose purpose was to investigate changes in the ice-cap along south coast since work of the 1935-36 Oxford expedition under A. R. Glen; brief notes on glacier conditions, mapping and a landing on Karl Alexanderøya three miles offshore; food rations, costs (£718), etc.

**Copy seen:** CaMAI.

**24921. OZHINSKIĬ, I. S.** Konglomerat Tur'ego mysa. (Akademiā nauk SSSR. Izvestiā. Serii geologicheskai, 1938, no. 1, p. 95-105, illus., plate) **Title tr.:** Turiy Cape conglomerate.

Contains account of the geological structure of Turiy Peninsula 66°36' N. 34°32' E. on the southern Kola coast; description of the conglomerate discovered by the author in 1936 and a discussion of the geological age of the Kola Peninsula sandstones (Paleozoic, Devonian?) and the intrusive activity of the alkaline complex. Summary in English.

**Copy seen:** MH.

**24922. OZHINSKIĬ, I. S.** Lovchorritorinkolitovye mestorozhdeniā vneshego poāsa Khibin. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1935. Ser. 2, chast' 64, p. 355-415, illus., plate, fold. map) **Title tr.:** Lovchorrite-rinkolite occurrences of the outer belt of the Khibina mountains.

Description of the occurrences of the minerals lovchorrite and rinkolite in the nepheline syenite rocks of the Khibina massif, Kola Peninsula (eastern Yukspor, eastern Lovchorr, Vud'yavchorr and northeastern Takhtarvumchorr); discussion of their origin in the pegmatite formations; and results of optical and physico-chemical study of the minerals. Summary in English.

**Copy seen:** DGS.

**24923. PAASIO, ILMARI.** Suomen nevasoiden tyypijärjestelmä koskevia tutkimuksia. Helsinki, 1936. 129 p., tables. (Acta forestalia fennica, 44:3) **Title tr.:** Studies in the classification of Finnish white swamps by type.

The study covers regions over all Finland including the North, and has data on the following swamp types: water, flood, mottled, green, rush- and sedge-growing, mire, pale, true, and peat bog. Bibliography (about 75 items). Summary in German, p. 113-29.

**Copy seen:** DLC.

**24924. PAASONEN, HEIKKI, 1865-1919.** Beiträge zur Aufhellung der Frage nach der Urheimat der finnisch-ugrischen Völker. Helsinki, 1923. 19 p. (Åbo, Finland. Suomalainen Yliopisto. Julkaisu, ser. B, t. 1, no. 5) **Title tr.:** Contributions to the clarification of question of the old homeland of the Finno-Ugric peoples.

Contains critical review of the theories on this problem advanced by Europaeus,

Ferdinand Johann Widemann (in 1838), Matthias Alexander Castrén (in 1849), Max Müller, and Fr. Th. Köppen (in 1890). Castrén's theory was that the old homeland of the Finno-Ugric peoples was in Asia, in the region of the Sayan Mts. and the western Altai. Paasonen bases his paper, written in 1904, on the names for trees, especially the pine (*Pinus cembra*), and cedar, and comes to the conclusion that the Finno-Ugric ancestors lived somewhere in the region where Europe and Asia meet. The southern border of pine is 56° N. lat. and that of cedar between 57° and 58° N. lat. in western Siberia, and up to 59° N. on the European side of the Ural Mts., where cedar is found only in a region of about 30 miles westward of the Ural Mts.

**Copy seen:** DLC.

**24925. PAASONEN, HEIKKI, 1865-1919.** Ostjakisches Wörterbuch, nach den Dialekten an der Konda und am Jugan. Zusammengestellt, neu transkribiert und herausgegeben von Kai Donner. Helsingfors, 1926. xxxiv, 334 p. (Suomalais-ugrilainen seura. Lexica Societatis Fennougricae, 2) **Title tr.:** Ostyak dictionary by H. Paasonen, according to the dialects on Konda, and Yugan. Grouped, newly transcribed and edited by Kai Donner.

Preface gives account of Paasonen's sojourn among the Ostyaks in 1900-1901, data on the phonetic transcription and editor's procedure. Following the dictionary is an index in German (p. 303-332).

**Copy seen:** InU; NN.

**24926. PAASONEN, HEIKKI, 1865-1919.** Ueber die Benennung des Roggens im Syrjänischwotjakischen und im Mordwinischen. (Suomalais-ugrilainen seura. Aikakauskirja, 1906. v. 23, no. 24, p. 1-7) **Title tr.:** About the naming of rye in the Zyryan-Votyak and Mordvin languages.

Contains linguistic investigation of the origin of the names for rye: Finnish *ruis*, Zyryan *rudzeg*, Mordvin *rož*. They are not borrowings from the Russian, but rather have some connection with Lithuanian *rugys* and Teutonic (Gothic?) \**rugi-z*; influence of Thracians and Scythians is also considered possible.

**Copy seen:** DLC; InU.

**24927. PAASONEN, HEIKKI, 1865-1919.** Ueber die ursprünglichen Seelenvorstellungen bei den finnisch-ugrischen Völkern und die Benennungen der Seele

in ihren Sprachen. (Suomalais-ugrilainen seura. Aikakauskirja, 1909. v. 26, no. 4, p. 1-27) **Title tr.:** On the original conceptions of the soul among the Finno-Ugric peoples and the naming of soul in their languages.

*Contains* linguistic material in explanation of this concept among the Voguls, Ostyaks, and Zyryans; connection between the soul and bodily organs, man's shadow and breath; common or related features of these peoples' concept of the soul. **Copy seen:** DLC; InU.

**24928. PAASONEN, HEIKKI, 1865-1919.** Zur Geschichte des finn.-ugr. *š*-Lautes. (Finnisch-ugrische Forschungen, 1912. Bd. 12, p. 300-306) **Title tr.:** On the history of the Finno-Ugric *š*-sound.

*Contains* references to the Vogul, Ostyak and Zyryan languages. The *š*-sound in Finno-Ugric is not old and is of secondary origin.

**Copy seen:** DLC; InU.

**PAASONEN, HEIKKI, 1865-1919, see also** Kannisto, A. Forschungen H. Paasonens. 1941-42. No. 23115.

**24929. PADALKA, G. L.** Metallonosnost' severo-vostochnoi Äkutii. (Akademii nauk SSSR. Izvestiia. Seriiä geologicheskaiä, 1939, no. 6, p. 41-60) **Title tr.:** The ore deposits of northeastern Yakutia.

*Contains* description of ore deposits east of the Lena, grouped by the author in two main types: (1) the sulphide-tin-type, of frequent occurrence; (2) gold deposits known only in some places. The three geographic zones of the area studied are characterized: (1) the Tasskhayakhthakh, (2) Yana and (3) Verkhoyansk zone. This paper is a continuation of the author's *O geologicheskoi stroenii sev.-vost. Äkutii*, 1938, q. v. Summary in English.

**Copy seen:** DLC; MH.

**24930. PADALKA, G. L.** O geologicheskoi stroenii severo-vostochnoi Äkutii v sviazi s metallonosnost'iu. (Akademii nauk SSSR. Izvestiia. Seriiä geologicheskaiä, 1939. no. 5, p. 3-20, map) **Title tr.:** On the geological structure of northeastern Yakutia in connection with the ore deposits.

*Contains* an introductory summary of the geology and (briefly) the ore deposits of the region between the Lena River, and the Yana-Indigirka watershed, with

data on stratigraphy, tectonics and vulcanism of the region. For further account of the ore deposits see the author's, *Metallonosnost' severo-vostochnoi Äkutii*, 1939. Summary in English.

**Copy seen:** DLC; MH.

**24931. PADY, STUART MCGREGOR, 1905-**, and others. Arctic aerobiology, III. The presence of spores of cereal pathogens on slides exposed from airplanes in 1947. (Phytopathology, July 1950. v. 40, p. 632-41, map-diagr.)

*Other authors:* B. Peturson and G. J. Green.

Results of exposure of vaselined slides, during Aug.-Sept. 1947, in arctic and subarctic regions of Canada, at altitudes of 4,000-5,000 ft. Spores of plant rusts and smuts were found in very low numbers north of the Arctic Circle; and in larger quantities south of the Circle. Notes on associated cereal diseases in Canada and the United States are given. Bibliography (6 items).

**Copy seen:** DLC.

**24932. PADY, STUART MCGREGOR, 1905-**. Fungi isolated from arctic air in 1947. (Canadian journal of botany, Feb. 1951. v. 29, p. 46-56, plate)

Report on final determinations of the more than two hundred fungus cultures obtained from plates exposed by N. V. Polunin during flights described in his *Arctic aerobiology*, 1947 (see *Arctic Bibliography*, No. 13666). The forms "are considered to be largely saprophytic soil-borne organisms carried into the Arctic by southerly winds."

**Copy seen:** DGS; DLC.

**PADY, STUART MCGREGOR, 1905-**. see also Kelly, C. D., & others. Aerobiological sampling methods from aircraft. 1951. No. 23183.

**24933. PÄRNÄNEN, VÄINÖ.** Tunturikukkien luoissa. (Luonnon tutkija, 1940. v. 44, no. 4, p. 95-99) **Title tr.:** Under the spell of the flowers in the arctic plateau.

Author's observations on 12 species of flowering plants in northern Finland during August.

**Copy seen:** DLC.

**24934. PAGAST, FELIX.** Ueber die Metamorphosestadien von *Chironomus vulneratus* Zett. (Gruppe Cryptochironomus s. str.). (Konowia, 1932. Bd. 11, Heft 2, p. 155-62, illus.) **Title tr.:** On metamorphosis stages of *Chironomus*

*vulneratus* Zett. (group of *Cryptochironomus* s. str.)

Contains descriptions of the larva, pupa and imago of the harlequin fly, *Chironomus vulneratus*, native to Swedish Lapland, and data on its life history.

**Copy seen:** MH-Z.

**24935. PAGÉ, EDOUARD, and L. -M. BABINEAU.** The effects of high fat diets and cold environment on the ascorbic acid content of the brown adipose tissue. (Canadian journal of research, Oct. 1950. v. 28, sect. E., p. 196-201, 4 tables)

Contains a report on experiments with rats which demonstrated that in cold adapted animals the brown adipose tissue was much hypertrophied and its ascorbic acid content 4-8 times higher than in controls; the weight of perirenal fat also doubled with little or no change in body weight. Bibliography (13 items.)

**Copy seen:** DLC.

**24936. PAGE, WILLIAM B.** "Handie talkie" expedites field operations in Alaska. (U. S. Coast and Geodetic Survey. Journal, Jan. 1948. no. 1, p. 67-68, illus.)

Contains account of a Survey party's experience during the 1946 season using small radio transceivers in field work, particularly ship-to-shore triangulation. The instrument (Army SCR-536) designed for two-way voice communication, receiving and sending on the same frequency, is described and illustrated, with notes on its maintenance, use, initial and operating costs.

**Copy seen:** DLC.

**24937. PAIGE, ALSTON.** First ascent of Mount Hess. (American alpine journal, 1952. v. 8, p. 237-40)

Contains an account of the ascent on May 24, 1951, of one of the four highest peaks in the Hayes Mts. Alaska Range.

**Copy seen:** DGS.

**24938. PALENICHKO, Z. G.** Osobennosti biologii belomorskoi mdii. (Zoologicheskii zhurnal, 1948. t. 27, vyp. 5, p. 411-20) **Title tr.:** Peculiarities of the biology of the White Sea mussel.

Contains a study of biology of common sea-mussel (*Mytilus edulis*) of the White Sea, with data on its population density, rate of the growth, maturity and propagation, also comparison with similar data on mussels of the other seas.

**Copy seen:** DLC; MH-Z.

**24939. PALIBIN, IVAN VLADIMIROVICH, 1872-1949.** Botanicheskii sbor Okhotsko-Kamchatskoĭ gornoi ėkspeditsii prof. K. I. Bogdanovicha. (Tartu (Ür'ev or Dorpat) Estonia. Universitas. Hortus botanicus. Acta, 1908. t. 9, vyp. 2, p. 87-95) **Title tr.:** Botanical collection of the Okhotsk-Kamchatka Mining Expedition of Prof. K. I. Bogdanovich.

Contains historical data on the botanical exploration of the shores of Okhotsk Sea and Kamchatka and a systematic list of 98 flowering plants collected in 1895-97 by Prof. K. I. Bogdanovich, leader of the Okhotsk-Kamchatka Mountains Expedition exploring for gold deposits along the Okhotsk seacoast between the mouth of Uda River and the port Ayan and on the western coast of Kamchatka Peninsula.

**Copy seen:** DA; MH-A.

**24940. PALIBIN, IVAN VLADIMIROVICH, 1872-1949.** Novye dannye o tretichnoi i posletretichnoi flore ralonov nizov'ev r. Leny. (Akademiia nauk SSSR. Botanicheskii institut. Materialy po istorii flory i rastitel'nosti SSSR, 1946. vyp. 2, p. 469-73) **Title tr.:** New data on the Tertiary and post-Tertiary flora of the Lena delta region.

Contains a study of fossil plants collected in coal beds of Tertiary and Post-Tertiary era, the valley of Sogo River, by the geological expedition of M. F. Lobanov and V. N. Kuznetsov, with a list of ten determined fossil plants, data on their structure and comparison with fossil flora of other arctic regions.

**Copy seen:** MH-A.

**24941. PALIBIN, IVAN VLADIMIROVICH, 1872-1949.** Ueber die Entdeckung von Sequoia-Resten auf West-Spitzbergen (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1906. Ser. 2, chast' 44, vyp. 1, p. 411-14, plate 7) **Title tr.:** On the discovery of *Sequoia* remains on Vestspitsbergen.

Contains a microscopic analysis of fossil wood collected by F. N. Chernyshev in the vicinity of Cape Agardh on the eastern coast of Vestspitsbergen in 1899 and 1901, and determined by the author as *Sequoia canadensis*; it is identical with the remains of *Sequoia* found in the Mackenzie River region of northern Canada, and described by C. Schröter.

**Copy seen:** MH-Z.

**24942. PALLAS, PETER SIMON, 1741-1811.** *Marina varia nova et rariores*. (Akademiä nauk SSSR. Nova acta, 1788. t. 2, p. 229-49, plates 5-7) **Title tr.:** Various new or rare marine animals.

*Contains* Latin diagnoses of 15 species mostly from the Pacific and Kurile Islands, including two gastropods, *Chiton amiculatus* from Petropavlovsk and Lopatka Cape regions, and *Helix coriacea* from the Okhotsk Sea near the estuary of Bol'shaya River. **Copy seen:** MH.

**24943. PALLAS, PETER SIMON, 1741-1811.** *Piscium novae species descriptae*. (Akademiä nauk SSSR. Nova acta, 1767. t. 1, p. 347-60, plates 9-11) **Title tr.:** Descriptions of new species of fishes.

*Contains* Latin descriptions of seven new species of fresh-water and marine fishes, including *Cottus diceraus* n. sp. collected (during the Bering expedition) by S. Krasheninnikov and G. W. Steller in Kamchatka waters (Cape Avacha). **Copy seen:** DLC; MH.

**24944. PALM, NILS BERTIL.** *Microlepidoptera, Neuroptera, and Trichoptera* from Medelpad and Norrbotten, Sweden, with descriptions of some new Tineid species. (Opuscula entomologica, 1947. Bd. 12, häft. 1-3, p. 35-49)

*Contains* descriptions of six new lepidoptera, including *Phthorimaea atralbella*, *P. kemnerella* and *Coleophora digitella* n. spp. collected by the author in the summer of 1946 near Karlsborg, Norrbotten; and a list of 165 lepidoptera, eight neuroptera and ten caddis flies, of which 116 lepidoptera are new to the fauna of the region. **Copy seen:** DA; MH-Z.

**24945. PALM, THURE, 1894-** . Anteckningar om svenska skalbaggar, IV-V. (Entomologisk tidskrift, 1949. Årg. 70, häft. 1-2, p. 6-11; (V) 1950, Årg. 71, häft. 2, p. 129-43, illus.) **Title tr.:** Notes on Swedish beetles, IV-V.

*Contains* (in pt. IV) critical notes and data on distribution of 21 Swedish beetles, including 15 native to Swedish Lapland; and (in pt. V) critical notes on 35 species, including four native to northern Sweden. Pts. 1-3 do not include arctic material. **Copy seen:** DLC; MH-Z.

**24946. PALM, THURE, 1894-** . *Atomaria* (s. str.) *sjobergi* n. sp. (Col. Cryptophagidae). (Entomologisk tidskrift, 1949. Årg. 70, häft. 4, p. 241-42, illus.)

*Contains* a German description of a new beetle, *Atomaria sjobergi* n. sp., found by the author on June 12, 1947 under the bark of a birch near Kihlengi in Norrbotten. **Copy seen:** DLC; MH-Z.

**24947. PALM, THURE, 1894-** . *Bibloporus höglundi* n. sp. (Col. Pselaphidae). (Entomologisk tidskrift, 1948. Årg. 69, häft. 3, p. 122-24, illus.)

*Contains* a German diagnosis of a new beetle, *Bibloporus höglundi* n. sp., found in Ruskträsk, Lycksele Lappmark, and comparison with another closely related species *B. bicolor*. **Copy seen:** DA; MH-Z.

**24948. PALM, THURE, 1894-** . Bidrag till kännedomen om de nordiska *Aleochara*-arternas systematik, utbredning och levnadssätt (Col. Staphylinidae). (Entomologisk tidskrift, 1946. Årg. 67, häft. 1-2, p. 21-47, illus.) **Title tr.:** Contributions to the knowledge of systematics, distribution and mode of life of the northern *Aleochara* species (Col. Staphylinidae).

*Contains* a morphological and systematic sketch of the coleopterous genus *Aleochara*, a table for the determination of the northern species, another table with dimensions and data on microsculpture and a list of 35 species with critical notes and data on biology and distribution; includes *A. villosa* and *A. laevigata* native to northern regions of Scandinavia (69° N.). **Copy seen:** DA; MH-Z.

**24949. PALM, THURE, 1894-** . De nordiska *Lomechusa*-arterna. (Col. Staphylinidae). (Entomologisk tidskrift, 1949. Årg. 70, häft. 1-2, p. 97-102, illus.) **Title tr.:** On northern *Lomechusa* species.

*Contains* a table for the determination of the northern species of rove beetles (Staphylinidae) of the genus *Lomechusa*, and brief descriptions of four species, including *L. mariaae* n. sp., parasitic on the ant *Formica pratensis*, in Kihlengi, Norrbotten, and *L. inflata*, parasitic on *Formica rufa*, found in Vittangi, Torne Lappmark. **Copy seen:** DA; MH-Z.

**24950. PALM, THURE, 1894-** . Ett exempel på anemohydrochor insektspridning vid Torneträsk. (Entomologisk tidskrift, 1949. Årg. 70, häft. 1-2, p. 65-74, illus.) **Title tr.:** An example of spread of insects by wind and water near Torneträsk.

*Contains* results of a study carried out

by the author in the summer of 1948 around Torneträsk (lake) near Abisko in Torne Lappmark; with a list of 63 wind-driven insects and a table with data on the temperature, atmospheric pressure, velocity and direction of the wind in the Abisko and Kiruna region during the investigation. **Copy seen:** DA; MH-Z.

**24951. PALM, THURE, 1894-** . För Sverige nya Coleoptera, II-III. (Entomologisk tidskrift, 1931. Årg. 52, häft. 3-4, p. 202-208; 1937, Årg. 58, häft. 1-2, p. 10-18, illus.) **Title tr.:** Coleoptera new to Sweden, II-III.

**Contains** descriptive notes and data on distribution of 28 beetles new to Sweden, including (in pt. II) *Atheta (Metaxya) polaris* (Lappmark and Osterbotten) and *Limnobaris T.-album* L. sensu Reitter (-*martulus* Sahlb.) found in Norrbotten; and (in pt. III) *Bledius erraticus* collected near Abisko, Torne Lappmark; pts. I (1947) and IV (1937) do not contain arctic material. **Copy seen:** MH-Z.

**24952. PALM, THURE, 1894-** . För Sverige nya Coleoptera, V. (Entomologisk tidskrift, 1940. Årg. 61, häft. 1-2, p. 4-9) **Title tr.:** Coleoptera new to Sweden, V.

**Contains** critical notes on 9 species of beetles new to Sweden, including *Philonthus furcifer* found in the Torneå-Råneå coastal region of Norrbotten, previously known from northern Finland (68° N.). **Copy seen:** DA; MH-Z.

**24953. PALM, THURE, 1894-** . För Sverige nya Coleoptera, VII-VIII. (Entomologisk tidskrift, 1943. Årg. 64, häft. 3-4, p. 160-64; 1944, Årg. 65, häft 3-4, p. 166-72, illus.) **Title tr.:** Coleoptera new to the fauna of Sweden, VII-VIII.

**Contains** descriptive notes on 16 beetles new to Sweden, including *Anthobium sorbicola* found living on *Sorbus aucuparia* in Swedish Lapland (pt. VII, no. 2) and Swedish and German descriptions of *Enicmus nidicola* n. sp. native to Tromsø, Norway, and found also in southern Sweden. **Copy seen:** DA; MH-Z.

**24954. PALM, THURE, 1894-** . För Sverige nya Coleoptera, X-XII. (Entomologisk tidskrift, 1949. Årg. 70, häft 4, p. 232-40, illus.; (XI) 1950, Årg. 71, häft. 2, p. 124-28, illus.; (XIII) 1951, Årg. 72, häft 1-2, p. 54-59, illus.) **Title tr.:** Coleoptera new to Sweden, X-XII.

**Contains** descriptive notes and data on

distribution of 27 beetles new to Sweden, including a diagnosis of *Hygropora cunctans longicornis* n. subsp. from Abisko and Torneträsk region, Torne Lappmark (pt. X), and critical notes on eleven species, native to Swedish Lapland (pts. X-XII). **Copy seen:** DA; MH-Z.

**24955. PALM, THURE, 1894-** . Eine neue *Corticaria* aus Lappland (Col. Lathridiidae). (Entomologisk tidskrift, 1949. Årg. 70, häft. 1-2, p. 109-110, illus.) **Title tr.:** A new *Corticaria* from Lapland.

**Contains** a description of a new beetle, *Corticaria strandi* n. sp., found by the author near Malå, Swedish Lapland (65°20' N.) on July 15, 1948.

**Copy seen:** DA; MH-Z.

**24956. PALM, THURE, 1894-** . Die nordischen Arten der Gattung *Syncalypa* Stephens (Col. Byrrhidae). (Entomologisk tidskrift, 1934. Årg. 55, häft. 3-4, p. 299-316, illus., text maps) **Title tr.:** Northern species of the genus *Syncalypa* Stephens (Col., Byrrhidae).

**Contains** an historical review of the study of the coleopterous genus *Syncalypa*, its systematic position and limitation, brief data on its biology, a table for the determination of the species and critical notes and data on geographic distribution of five species in northern regions of Scandinavia and in Kola Peninsula. **Copy seen:** DA; MH-Z.

**24957. PALM, THURE, 1894-** . Om några kritiska *Agathidium*-arter (Col. Liodidae). (Entomologisk tidskrift, 1946. Årg. 67, häft. 4, p. 171-76) **Title tr.:** On some critical *Agathidium* species.

**Contains** a comparative taxonomic study of two beetles, *Agathidium nigrinum* and *A. arcticum*, and a table for the determination of eight species of the same genus. **Copy seen:** DA; MH-Z.

**24958. PALM, THURE, 1894-** . Våra *Caenoscelis*-arter med särskild hänsyn till *grandis* C. G. Thoms. (Col. Cryptophagidae). (Entomologisk tidskrift, 1943. Årg. 64, häft. 1-2, p. 86-90, illus.) **Title tr.:** Swedish *Caenoscelis* species with special consideration given to *C. grandis* C. G. Thoms. (Col. Cryptophagidae).

**Contains** descriptive notes on three Swedish beetles of the fam. Cryptophagidae, including *Caenoscelis ferruginea*, native to Lule Lappmark and *C. grandis* from Pälkem, Gällivare parish, northern

Lapland, and brief German descriptions of the same species.

**Copy seen:** DA; MH-Z.

**24959. PALM, THURE, 1894-** . Zwei neue *Colon*-Arten aus Schwedisch-lappland nebst einer Bestimmungstabelle der aus Nordeuropa bisher bekannt gewordenen Arten der Untergattung *Curvimanon* (Col. Silphidae). (Entomologisk tidskrift, 1941. Ärg. 61, häft. 3-4, p. 158-65, illus.) **Title tr.:** Two new *Colon* species from Swedish Lapland and a table for the determination of the species of the subgenus *Curvimanon* (Col. Silphidae) hitherto known from northern Europe.

Contains descriptions of *Colon* (*Curvimanon*) *pseudolatatum* and *C. (Curvimanon)* *brundini* n. spp. coleopters found in the birch belt in Torne Lappmark, and a key to five northern European species of subgenus *Curvimanon*, including two newly described.

**Copy seen:** DA; MH-Z.

**PALM, THURE, 1894-** , see also Lindroth, C. H., & T. Palm. För Sverige nya Coleoptera, I-II. 1933-34. No. 23910.

**24960. PALMÉN, E. G.** Simon van Salinghens karta öfva Norden 1601. Helsingfors, 1912. 10 p., fold. map. (Fennia, 31:6). **Title tr.:** Simon van Salinghens's chart of the North, dated 1601.

Notes on a lithographic reproduction of chart of Scandinavia drawn in 1601 and found in the library of Adolf Norden-skiöld. The map includes the arctic areas of Scandinavia and European Russia. Summary in German.

**Copy seen:** DLC.

**24961. PALMÉN, ERNST.** A survey of the Oniscoidea (Isopoda Terr.) of Newfoundland. Helsinki, 1951. 27 p., maps, diagrs., tables. (Suomalainen eläin- ja kasvitieteellinen seura Vanamo. Eläintieteellisiä julkaisuja. Annales zoologici. Osa 14, no. 1)

Contains a report of field investigations on the terrestrial isopod Crustacea of Newfoundland, carried out during June-Aug. 1949 by a Finnish-Swedish biological expedition and supported by the Arctic Institute of North America. Twelve species are surveyed faunistically, nine of them new for Newfoundland (three of the latter new for North America). Some taxonomic, ecologic and zoogeographic data are presented. Bibliography (61 items).

**Copy seen:** DAL.

**24962. PALMÉN, ERNST.** Über *Rhynchaenus foliorum* Müll. (Col., Curculionidae) und seine Verwandten in der paläarktischen Region. (Suomalainen hyönteistieteellinen aikakauskirja, 1944. 10:3, p. 157-72, illus., diagrs., maps) **Title tr.:** On *Rhynchaenus foliorum* Müll. (Col., Curculionidae) and its relatives in the palaearctic region.

Author gives a differential morphology of this beetle and a few closely related species; their distribution (which extends throughout northern Fennoscandia, Kola Peninsula, West Spitsbergen and northern localities in European and Asiatic U.S.S.R.) is discussed as well as some ecological and phenological aspects.

**Copy seen:** DLC.

**24963. PALMÉN, JOHAN AXEL, 1845-1919.** Ueber die Zugstrassen der Vögel. Leipzig, Verlag v. W. Engelmann, 1876. vi, 292 p., map. **Title tr.:** On migration routes of birds.

A classic and pioneer study of the routes of migratory birds in the Northern Hemisphere. It contains an historical review, data on selection of birds for the study and the results of observations, with a list of species observed in various regions, including Norway, Spitsbergen, western part of the Eurasian arctic seas, Jan Mayen, Sweden, Finland, northern Russia, Novaya Zemlya and Vaygach Island (p. 53-82), western Siberia (p. 124-26), central and eastern Siberia (p. 133-38); classification of migratory routes, winter stations, frequency of species and individuals on the routes, time of migration, categories of migratory and breeding birds, regular and irregular migration routes and their genetic importance, migration instinct and comments on the earlier studies on this subject. This is an enlarged and revised edition of Palmén's paper *Om foglarnes flyttingsvägar*, published as a thesis in 1874. A later and much briefer *Report on the migration of birds* by Palmén was published (in English) in Smithsonian Institution Annual report, 1891-92, pub. 1893, p. 375-96, map. Palmén's work was carried on later by I. Välikangas, q. v. **Copy seen:** DLC.

**PALMÉN, JOHAN AXEL, 1845-1919.** see also Festschrift Dr. J. A. Palmén. 1907. No. 21773.

**PALMÉN, JOHAN AXEL, 1845-1919.** see also Rosberg, J. E., & J. A. Palmén. Finland och A. Nordenskiölds minne. 1902-3. No. 25646.

**PALMÉN, JOHAN AXEL, 1845-1919.** *see also* Wright, M. v., & J. A. Palmén. *Finlands foglar* 2. 1873. No. 27494.

**24964. PALMER, LAWRENCE JOHN, 1893-** . Animal and plant resources of Alaska. Washington, 1941. 12 p. (U. S. Fish & Wildlife Service. Wildlife leaflet 176 )mimeographed.

General survey of the wildlife wealth of Alaska, its importance and the problem of guarding against its depletion.

*Copy seen:* DLC.

**24965. PALMGREN, PONTUS.** Über den Tagesrhythmus der Vögel im arktischen Sommer. (Ornis fennica, Dec. 1935. Vuosik. 12, no. 4, p. 107-121) *Title tr.:* On diurnal rhythm of birds in the arctic summer.

Observations of bird song and other activities during the long day in June-July, 1935, north of 68°30' N. showed around-the-clock activity for northern Lapland nesting birds; for many, a rest period in the afternoon with renewal of activity toward midnight; the sleep period shifted in the cycle from darkness to the afternoon with its warmth and dryness. Bibliography (about 30 items).

*Copy seen:* DSI-M.

**24966. PANCHENKO, D. I.** O retrogradnykh izmeneniiaakh spinnogo mozga pri otmorozheniiaakh konechnostei. (Neuropatologiya i psikiatriia, 1943. t. 12, no. 3, p. 75-79, 4 fig.) *Title tr.:* Degenerative changes of the spinal cord in frostbite of extremities.

Also published (in English) in *American review of Soviet medicine*, June 1944. v. 1, p. 440-43.

*Contains* a section on the involvement of the nervous system in cases of serious frostbite and an account of microscopic-pathological changes found among 12 cases of frostbite, viz. periaxillary demyelization, hypertrophy of fibroblasts, breaking-up of the Nissl bodies, chromatolysis and cellular disintegration.

*Copy seen:* DLC.

**24967. PANCHENKO, D. I.** O znachenii nevrity v patogeneze otmorozhenii. (Khirurgiya, 1946. god 16, no. 1, p. 25-30, 6 fig.) *Title tr.:* On the significance of neuritis in the pathogenesis of frostbite.

*Contains* a histo-pathological study of the nervous system of 12 subjects with frostbite of various degrees, who died largely from other causes. The implica-

tions of the findings to the pathology of frostbite are discussed.

*Copy seen:* DLC.

**24968. PANFILOF, D. V.** Shmeli podroda *Cullumanobombus* Vogt (Hymenoptera, Apoidea). (Vsesoiuznoe entomologicheskoe obshestvo. Trudy, 1951. t. 43, p. 115-28, illus. text map) *Title tr.:* Bumblebees of the subgenus *Cullumanobombus* Vogt (Hymenoptera, Apoidea).

*Contains* a morphological description of hymenopterous subgenus *Cullumanobombus* and its seven species (two are described as new), including *Bombus (Cullumanobombus) semenoviellus* occurring in Lena River basin (Verkhnyaya Tunguska River) Yakutia.

*Copy seen:* DLC; MH-Z.

**24969. PANIN, K. I.** On the occurrence of *Sardinops melanosticta*, Temm et Schl. in the waters of eastern Kamchatka. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1936. nouv. ser., v. 3 (12), no. 1 (96), p. 41-43)

Analysis of factors governing the migration of this warm-water fish; its distribution and occurrence in the east Kamchatkan waters.

*Copy seen:* DLC.

**PANISSET, M.,** *see* Rousseau, J., & M. Panisset. Notes sur lichens antibiotiques. 1951. No. 25687.

**24970. PANKOVA, I. A.** Travaniistye C-vitaminonosy. (Akademiia nauk SSSR. Botanicheskii institut. Trudy. Seriya 5, Rastitel'noe syr'e, 1949. vyp. 2, p. 292-478, diagrs., tables) *Title tr.:* Herbs containing vitamin C.

*Contains* a survey of literature data on the use of certain wild-growing plants as a protection against scurvy and on importance of vitamin C for the same purpose. In the special part, a list of 45 herbs (*Urtica*, *Rumex*, *Polygonum*, etc.) is given with data on the ascorbic acid content in various parts of the plants (mostly leaves), content of this acid in connection with systematic position of the plants (table 3), and dynamics of ascorbic acid (table 4) and its fluctuation. The study was based partly on some plants collected in the Yakut region (see table 5).

*Copy seen:* MH-A.

**PANKOVA, I. A.,** *see also* Nekrasova, V. L., & I. A. Pankova. Piassava i ee zameniteli. 1949. No. 24604.

**PANKOVA, I. A.**, see also Nekrasova, V. L. Rastitel'noe syr'e dlia shchetochnogo proizvodstva. 1949. No. 24605.

**24971. PANOV, D. G.** O podvodnykh landshtafakh mirovogo okeana. (Vseso-  
uznoe geograficheskoe obshchestvo. Izve-  
stiia, 1950. t. 82, no. 6, p. 582-606,  
illus.) **Title tr.:** On submarine "land-  
scapes" of the world ocean.

Following an outline of the factors which produce the "landscapes" of the sea, the author describes three under-water "climates": (1) the "shore climate" with strong fluctuations of temperature and gas content of the water; (2) the "tropospheric climate" with less change in these conditions; and (3) the "strato-spheric ocean climate" with no or very little change in temperature and gas content. The relief of the sea bottom and submarine "weathering" are dis-cussed as contributing to the character of the "landscape." The "landscapes" of the world ocean are outlined in the light of above and several additional considerations. **Copy seen:** DLC.

**24972. PANOV, D. G.** O proiskhozh-denii naibol'shikh glubin mirovogo okea-na. (Priroda, July 1952. v. 41, no. 7, p. 92-95, illus.) **Title tr.:** On the origin of the greatest depths in the world ocean.

Contains a study of the bottom relief of the sea, dealing mainly with the fact that maximum depths occur not in central parts of oceans but in the form of local depressions termed "trenches" near main-land coasts or chains of islands. Data are given on the Aleutian Trench (7678 m.) and some discussion of its origin and development. **Copy seen:** DLC; MH.

**24973. PANTENBURG, VITALIS, 1901-** . Grenzer-Welt am Europäischen Eismeer. (Kosmos, Dez. 1949. Jahrg. 45, p. 454-60, illus., map) **Title tr.:** Countries bordering the European Arctic Ocean.

Brief sketch of the geography and colonization of northern Norway, Sweden and Finland, and post-World War II development. **Copy seen:** DLC.

**24974. PANTENBURG, VITALIS, 1901-** . Land hinter dem grossen Eis-strom. (Kosmos, Juni 1950. Jahrg. 46, p. 270-274, illus., map) **Title tr.:** Land beyond the great ice.

Popular article describing the physical features, animal life, plants climate, early

exploration and more recent development of the east coast of Greenland.

**Copy seen:** DLC.

**24975. PANTENBURG, VITALIS, 1901-** . Die nördlichste Funk-Wetter-warte der Erde. (Polarforschung, 1951. Jahr. 21, Bd. 3, no. 1, p. 69-70) **Title tr.:** The most northerly weather station in the world.

Brief account of erection of U. S.-Cana-dian station on Ellesmere Island, at Alert, near Cape Sheridan, 82°30' N.

**Copy seen:** DLC; DWB.

**24976. PANTENBURG, VITALIS, 1901-** . "Nordland jenseits der Eis-barre." Eine Expedition in arktisches Umland; aus den Tagebüchern des Ver-fassers. Stuttgart, Union deutsche Ver-lagsgesellschaft [1941]. 192 [1] p., plates (incl. maps). **Title tr.:** "Northern land beyond the ice barrier." An expedition into the arctic wilds; from the author's diary.

Informal account of life aboard a Nor-wegian sealer (*Polarbjørn*) during a sum-mer trip to supply Norwegian hunters along the east coast of Greenland and to hunt seals on the "west ice" between Jan Mayen and Greenland. Author describes the ice conditions, the island of Jan Mayen, coasts of northeast Greenland between 72°-74° N., life of the sealers and the settlements visited.

**Copy seen:** DLC.

**24977. PANTENBURG, VITALIS, 1901-** . Polahrirsche. (Orion, Jan. 1950. Jahrg. 5, no. 1, p. 1-8, illus.) **Title tr.:** Polar deer.

Contains a popular and well-illustrated account of the reindeer; history of our knowledge of the animal; its morphology; food; its fur and hide and their utilization, its use as draft animal, etc. (mainly by the Lapps but with reference to Samo-yeds; its social life and organization); domesticated and wild reindeer.

**Copy seen:** DLC.

**24978. PANTENBURG, VITALIS, 1901-** . Rinder der Arktis; vom Mos-chusochsen. (Orion, 1951. Jahrg. 6, p. 717-21, illus. map) **Title tr.:** Cattle of the Arctic; the musk ox.

Contains author's description of the animals' defense formation and defense against dogs; also accounts from other sources on their fight against wolves; courtship fights; group organization against wind and snow-storms; winter pelage, etc. **Copy seen:** CaMAI.

**24979. PANTENBURG, VITALIS, 1901-** . Die schnellsten Strassen kreuzen den Pol. Köln, Greven Verlag, 1951. 83 p. illus., plates, maps *Title tr.*: The quickest routes across the Pole.

*Contains* a popular account of the main steps in arctic discovery and exploration; Amundsen's work, use of aircraft, and trans-polar trip of the dirigible *Norge* in 1926; arctic weather and weather service; the Russian drifting ice-floe station "North Pole," 1937-38; a vision of the future with regular trans-polar passenger service, etc. *Copy seen:* DLC.

**24980. PANTENBURG, VITALIS, 1901-** . Wild-Ren, Jagdfahrten auf nordischer Hochsteppe. Stuttgart, Union Deutsche Verlagsgesellschaft, 1949. 189 p., 32 plates (part. col.) maps (on lining papers) *Title tr.*: Wild reindeer, hunting trips in high meadows of the North.

Describes the beauty of landscape and the fauna of Hardanger Vidda, a tundra in southern Norway where reindeer still flourish; and the experience of hunting reindeer there in summer and (using skis) in winter. Also published in French translation by Henri Daussy as: *Terres de rennes*, Paris, Boivin, 1952, (254 p., plates, maps).

*Copy seen:* DLC (German ed.)

**24981. PAPANIK, IVAN DMITRIEVICH, 1894-** . Conquest of the Pole. (Akademiâ nauk SSSR. Comptes rendus (Doklady), 1938. nouv. ser., v. 19, no. 8, p. 563-68, map)

Outline of Vodop'ianov's flight to the North Pole in May 1937 to establish Papanin's party to drift on an ice floe; with an appraisal of the scientific, aeronautical and political significance of this expedition under the overall direction of O. I. Shmidt.

*Copy seen:* DLC.

**24982. PÁPAY, JOSEF, 1873-1931.** Die ostjakischen Heldenlieder Regulys. (Suomalais-ugrilainen seura. Aikakauskirja, 1913-18. v. 30, no. 36, p. 1-9) *Title tr.*: Regulys' heroic songs of the Ostyaks.

*Contains* account of Antal Regulys' collection of folkloristic material (making 217 large folio pages of manuscript) in the Berezov and Obdorsk (Salekhard) regions in 1843-45, from Ostyak and Vogul informants, particularly the Ostyak Maxim Mikilov (born about 1770) who contributed about 18,000 verses. All

are heroic epics except one, a bear festival song. Themes, weapons are noted and musical instruments described.

*Copy seen:* DLC; InU.

**24983. PÁPAY, JOSEF, 1873-1931.** Ueber die Objektivkonjugation im Nordostjakischen. (Finnisch-ugrische Forschungen, 1913. Bd. 13, p. 296-303) *Title tr.*: On the objective conjugation in the northern Ostyak.

*Contains* discussion of a form rather rare in Ostyak which is more common and better developed (with a dual form) in Vogulian. *Copy seen:* DLC; InU.

**PARISH, ROBERT L.,** see Skarbo, G. A., & R. L. Parish. Sole survivor. 1951. No. 26243.

**24984. PARR, ALBERT EIDE.** Investigations on the Cyclopterini. (Bergen, Norway. Museum. Aarbok; naturvidenskapelig rekke, 1924-25, pub. 1926, nr. 7, p. 1-31, illus., plates)

*Contains* a description of adult specimens of a rare fish, *Cyclopteroides maculipini*, taken by the *Michael Sars* in Barents Sea (75°5'-6' N. 35°54' E.) in the summer of 1914; with morphological data, biology and description of egg and young fish, also discussion of the young stages of a related species *Eumicrotremus spinosus* and the genus *Lethotremus*. *Copy seen:* MH-Z.

**PARR, IRMA,** see Townsend, J. G., & others. Tuberculosis control Indians. 1941 No. 26789.

**24985. PARRY EXPEDITION, 1821-1823.** Temperature de quelques animaux des régions polaires (Annales de chimie et de physique, 1825. v. 28, p. 223, table) *Title tr.*: The temperature of some animals of the polar regions.

A brief table prepared from the report of the second voyage of Captain Parry. The temperatures were taken by Captain Lyon immediately after the death of the animal. The temperatures of the arctic fox, white hare, fox and wolf are given together with the air temperature and the date. *Copy seen:* DSG.

**24986. PARRY EXPEDITION, 1824-1825.** Temperatures de quelques animaux du nord, prises au Port Bowen. (Extrait du dernier voyage du Capitaine Parry). (Annales de chimie et de physique, 1827. v. 34, p. 111, table) *Title tr.*: Temperatures of some animals of the

North collected at Port Bowen (Extract from the last voyage of Captain Parry).

A brief table with temperatures of the arctic fox, ptarmigan, white bear and glaucous gull.

**Copy seen:** DSG.

**24987. PARVELA, A. A.** Maanjärityksistä, varsinkin Suomessa. (Terra, 1923. 35:1, p. 20-27) **Title tr.:** Earthquakes, especially in Finland.

Study of the records of various reported earthquakes since that damaging the Petsamo church in 1623, indicate that in Finland the majority have occurred in the Far North.

**Copy seen:** DLC.

**24988. PARVELA, A. A.** Oulun läänin viljelyskasvit niiden historia ja nykyinen levinneisyys. (Suomalainen eläin- ja kasvitieteellinen seura vanamo. Julkaisuja, 1930. 13:1, p. 1-354, tables, illus.) **Title tr.:** The history and spreading of cultivated plants in Oulu province.

Contains data on the cultivation of orchards and house plants from before 1700 to the present (p. 17-71) in the area studied extending from 63°25' to 70°05' N. lat.; its natural characteristics (p. 72-95); Oulu (Uleåborg) province as a farming region, cultivated field plants, medicinal plants, kitchen garden plants, fruit trees and berry bushes, decorative trees and bushes; decorative grass, and potted plants in the house and greenhouse. Bibliography (480 items). Summary in German, p. 335-54.

**Copy seen:** DLC.

**24989. PASCHER, ADOLF A., 1881-1945.** Conspectus Gagearum Asiae. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1905, pub. 1907. Novaja seriia. t. 19, p. 353-75) **Title tr.:** Conspectus of Asiatic species of *Gagea*.

Contains a critical revision of about sixty Asiatic species of liliaceous genus *Gagea* with Latin descriptions and critical notes; includes *G. silvatica*, native to Kamchatka and *G. provisa*, Yakutia, eastern Siberia.

**Copy seen:** DLC; MH-A.

**24990. PASKIN, A. A.** Gidrologiia i lozhiia rek. Utverzhdno v kachestve uchebnika dlia tekhnikumov Narkomrechflota SSSR. Leningrad, Rezhizdat, 1940. 215 p., illus., diags. **Title tr.:** River hydrology and piloting. Approved as a text book for technical schools of the Peoples Committee on the River Fleet of U.S.S.R.

An extensive, technical textbook which includes chapters on hydrography; general information on rivers, lakes, etc.; hydraulics of rivers; currents; sandbanks; navigation, etc. Chap. 11 (p. 155-59) deals with the winter régime of rivers, surface and bottom ice, duration of navigability on main Russian rivers.

**Copy seen:** DLC.

**24990 A. PATERSON, THOMAS THOMSEN.** Physiographic studies in Northwest Greenland. København, C. A. Reitzel, 1951. 60 p. 22 fig. incl. profiles, diags., 18 plates, sketch map. (Meddelelser om Grønland. Bd. 151, nr. 4)

"Results of denudation studies by the Wordie 1934 Arctic Expedition are presented. The processes of denudation including nivation, weathering along joints, solifluction, polygonal structures, and chemical disintegration are discussed. Subaerial denudation in the arctic regions depends almost wholly upon diurnal and annual growth and melting of interstitial ice crystals. The effects of structural control and ice-crystal growth on the island topography are discussed. It is believed that the influence of glacial action responsible for the submerged fjord system did not determine the islands' topography. The influence of ice-crystal growth in the formation of cirques is analyzed."—SIPRE. Island topography is discussed in relation to Edderfugle and Ryder island groups and Djaevelens Tommelfinger; morphological history generally of the region 74°-75° N. 56°-58° W. is presented. Bibliography (21 items).

**Copy seen:** DLC.

**24991. PATKANOV, SERAPHIM KERPOVICH.** Die Irtysch-Ostjaken und ihre Volkspoesie. 1. Teil. Ethnographisch-statistische Übersicht. 2. Teil. Ostjakische Texte mit deutscher und russischer Übersetzung nebst Erläuterungen. St. Petersburg, l'Académie Impériale des Sciences, 1897-1900. 2 pt.: viii, 167 p.; viii, 25, 302, 113 p., 2 plates, fold. map. **Title tr.:** The Irtysch-Ostyaks and their folk poetry. Pt. 1. Ethnographic statistical survey. Pt. 2. Ostyak texts with German and Russian translations, along with explanations.

Contains material from author's observations made during a three-year sojourn (1886-88) among the Ostyaks of the Irtysch River region including a few months spent among the Ostyaks and Voguls of Tobolsk government. Pt. 1

contains chapters on (1) geography of the country, its landscape, waters, forests and animals; the three groups of the Ostyakian people: the northern group living in the district of Berezhovo (14,115 in 1858), the less acculturated eastern group in the districts of Surgut and Narym (6,700 in 1875); and the more advanced southwestern group, or the Irtysh-Ostyaks, living along the banks of the rivers Ob' (as far as Salym), Irtysh, Konda, Demyanka (right tributary of the Irtysh, 59° N. 72° E.) and some of its tributaries (2508 in 1887); (2) the mode of living, influence of neighbors (Zyryans, Tatars, Samoyeds, and Russians), the racial appearance, clothing, dwellings and villages; (3) occupational skills and production: fishing, hunting and trapping, gathering of berries and nuts, animal husbandry, trade; (4) remnants of the old indigenous culture: signs (*tamgas*) and signatures, embroideries, dyeing, music and musical instruments, the indigenous system of measuring for length and time, names of months; popular therapy: a healing potion made from birch fungus for diseases, moxibustion, treatment for snake poisoning, syphilis, etc.; (5) laws and administration; (6) dying out of Ostyaks, its cause and results (limited fertility of women, high child mortality, alcohol and smoking, starvation, etc.); (7) the religious beliefs: gods, spirits, sacrifices, idols, small houses for gods, souls of dead heroes, places of worship, the evil goddess Tarin, the priests, the venerated plants and animals (bear, swan, pike, etc.); (8) some customs and ideas about life after death: marriage, burial, the conceptions of soul and the underworld, giving of nicknames, taking an oath. *Appendices* give budget of a middle-class family, specimens of native signatures (pictographs) and statistical tables of Ostyak population in Tobolsk district.

Part 2 contains a general introduction to Ostyakian folk poetry: age, style, content, variations and origin of its heroic epos, the way of life depicted by the folk epics, mythological songs and legends, tales and their types, improvisatory and traditional songs, bear festival songs, riddles. Texts are given for five heroic songs, four tales, two mythological songs, seven lyrical songs, and 16 riddles, also melodies for 23 songs, all collected by the author, who added notes on the folk tales and pointed to the Russian parallels. Russian translations of the Ostyakian texts are given at end (109 p.). *Plates*

give photographic illus. of a bow and arrows (with quiver), musical instruments (lyre and harp); specimens in color of the Ostyak decorative needlework, etc. An ethnographical map shows the exact living places of the Ostyaks, Voguls, Tatars and Russians in the gov'n. of Tobolsk.

**Copy seen:** DLC.

**24992. PATON, J.** Auroras and luminous night clouds. (Nature, Sept. 1951. v. 168, no. 4273, p. 487-88)

*Contains* information on the usual course of aurora displays; their color, extent, intensity, diurnal variation, etc.; the corona; methods of determining light and position of auroras; national and international cooperation in auroral research. The section on luminous clouds deals with their color and spectrum; conditions necessary for their observation; measurements of their height; theories about their nature.

**Copy seen:** DA.

**24993. PATTERSON, R. M.** Nahanni revisited. (Beaver, June 1952. Outfit 283, p. 12-19, illus.)

*Contains* account, richly illustrated, of author's summer trip in 1951 in a three-man party down the South Nahanni River with retrospective comment on his earlier sojourn of 1927-28 in that region.

**Copy seen:** CaMAI.

**24994. PATTERSON, RUSSEL H., and F. M. ANDERSON.** War casualties from prolonged exposure to wet and cold. (Surgery, gynecology and obstetrics, Jan. 1945. v. 80, p. 1-11, 21 fig.)

*Contains* a further report on studies of cases from the campaign on Attu (May 11-28, 1943), in which soldiers were exposed for long periods to moderate cold and humidity; includes discussion of etiology, pathology and therapy, complications, sequelae and after-effects (foot deformities). Bibliography (6 items). Abstract by R. L. Richards in *Bulletin of war medicine*, May 1945. v. 5, no. 10, p. 620.

**Copy seen:** DLC.

**PATTON, W. W., Jr.,** see Grye, G., & others. Present Cretaceous nomenclature N. Alaska. 1951. No. 22268.

**24995. PAUL, JOHN RODMAN, 1893- ; and others.** Antibodies to three different antigenic types of poliomyelitis virus in sera from North Alaskan Eskimos. (American journal of hygiene, 1951. v. 54, no. 2, p. 275-85, tables, diagrs.) Other authors: John T. Riordan and Joseph L. Melnick.

Report on an additional survey of antibodies made in 1949 on 242 Eskimos from two villages, Barrow and Wainwright. Qualitative, neutralizing, antibody determinations to three strains of poliomyelitis virus (Lansing, Brunhilde, and Leon) have been compared; quantitative determinations were recorded with the Lansing strain. An attempt has been made to correlate the appearance of antibodies with the local story of poliomyelitis and certain crude correlations appeared to exist. Higher titers of antibodies to the Lansing strain were found in individuals above the age of 20 years; it appears that the Lansing antibody presumably acquired in 1930 or earlier, persisted for 20 years or more in the absence of reinfections, at a titer of 1 in 100 or greater up to the age of 40 years; in older individuals this titer declined somewhat. Antibodies to the Leon and Brunhilde strains were also found in an appreciable percentage of individuals, of 30 and 40 years of age. The record of appearance of the three kinds of antibodies suggests exposure to the three strains, around the years 1905, 1915 and 1930. Clinical records indicate a few fatal cases in 1930, and a medical missionary furnished a brief account of an epidemic prior to 1921. Bibliography (7 items). **Copy seen:** DSG.

**24996. PAUL, JOHN RODMAN, 1893-**, and **J. T. RIORDAN**. Observations on serological epidemiology. Antibodies to the Lansing strain of poliomyelitis virus in sera from Alaskan Eskimos. (American journal of hygiene, 1950. v. 52, p. 202-212, illus., map, tables)

Serum samples from 243 Eskimos of various age groups, and living at the villages of Barrow and Wainwright, northern Alaska have been studied for the presence or absence of neutralizing antibodies to the Lansing strain of poliomyelitis virus. Poliomyelitis is known to have been present in this area in 1930 but there is no reliable record of its presence before or after this date. The tests revealed that nearly all natives tested, who were below the age of 20 failed to have antibodies, while 80 percent of those over 20 had the antibodies. Bibliography (11 items). **Copy seen:** DSG.

**24997. PAUL, JOHN RODMAN, 1893-**, and others. Serological epidemiology: antibody patterns in North Alaskan Eskimos. (Journal of immunology, 1951. v. 66, no. 6, p. 695-713, map, tables,

diagrams.) **Other authors:** John T. Riordan and Lisbeth M. Kraft.

Report of antibody determinations made on 242 blood samples, covering a wide age distribution, and collected from remote villages of the North Alaskan coast, mainly from Barrow and Wainwright. "Specific" antibody tests employed included: the neutralization test for Lansing poliomyelitis virus and for some of the Coxsackie viruses; complement fixing antibodies to the mumps virus, and to *Trichinella spiralis*; antistreptococcal enzyme tests; tests for syphilis. "Non-specific" tests included measurement of gamma globulin by chemical means and sheep cell agglutinin titrations. In a few tests reported, significant deviations from expected patterns appeared. These were usually manifested by a delay in the age at which a given antibody appeared and the speed it built up to what was termed by the authors "usual adult levels" (—From summary). Bibliography (22 items).

**Copy seen:** DSG.

**24998. PAULAHARJU, SAMULI**. Lapin muisteluksia. Helsinki, Kustannusosakeyhtiö Kirja, 1922. 271 p., illus., maps **Title tr.:** Memories of Lapland.

The author spent three summers 1920-1922 in Finnish and Norwegian Lapland and offers here descriptions of the customs, beliefs and activities of the Finns and Lapps he visited. **Copy seen:** MH.

**24999. PAULSON, IVAR**. Ueber ein Prototyp des Fangspiels in Nordamerika und im prähistorischen Europa. (Ethnos, Stockholm, 1949. Bd. 14, no. 2-4, p. 140-48, 4 illus.) **Title tr.:** On the prototype of a catch-play instrument in North America and in prehistoric Europe.

Contains discussion of certain similarities existing between an Eskimo toy (*ajagaq*) and archeological objects found in Europe. **Copy seen:** DSI-M; InU.

**PAVLENKO, M. N.**, see Soldatov, V. K., & M. N. Pavlenko. Description of a new species of family Rajidae. 1915. No. 26321.

**PAVLENKO, M. N.**, see also Soldatov, V. K., & M. N. Pavlenko. Two new genera of Cottidae from Tartar St. & Okhotsk Sea. 1915. No. 26333.

**25000. PAVLOV, NIKOLAĬ VASIL'EVICH, 1893-**. Berezovye lesa zapadnogo poberezh'ia Kamchatki. (Moskovskoe obshchestvo ispytatelei prirody.

Bülleten', 1936. Otdel. biol. Novaja seriâ. t. 45, vyp. 2, p. 129-38) **Title tr.:** Birch forests on the western coast of Kamchatka.

Contains a discussion of the distinctive characteristics of birch forests on the western coast of Kamchatka Peninsula, based on the author's observations in the summer of 1935, and a study of ecological formations (*Betula herbosa*, *B. althobosa* and *B. graminosa*) with some notes on economic importance of stony birch (*Betula ermani*). Summary in French.

**Copy seen:** DLC; MH-A.

**25001. PAVLOV, NIKOLAI VASIL'EVICH, 1893-** . Problema zemledeliâ na zapadnom poberezh'e Kamchatki. (Akademiâ nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1936. no. 17, p. 119-21) **Title tr.:** The problem of agriculture on the western shores of Kamchatka.

Contains an evaluation of the possibilities for development of agriculture on Kamchatka Peninsula, based on the author's observations as the head of Southern section of the Kamchatka Complex Expedition of the Academy of Sciences in 1935.

**Copy seen:** DLC; MH-A.

**25002. PAVLOV, NIKOLAI VASIL'EVICH, 1893-** . Vladimir Leont'evich Komarov. Moskva, Izd-vo Akademii nauk SSSR, 1951. 291 p., illus., ports. (Akademiâ nauk SSSR. Seriâ "Biografi")

Chapter 6 (p. 107-148), "The Kamchatka Expedition," gives a general account of the expedition of 1908-1909 sponsored by F. P. Râbushinskiï, the botanical section of which was under the direction of V. L. Komarov. It includes data on the vegetation of Kamchatka, collections made and a detailed review of Komarov's work on the flora of Kamchatka as published in his *Puteshestvie po Kamchatkê*, 1912, and *Flora poluostrova Kamchatki*, 1927-30, (*Arctic Bibliography*, No. 9068, 9057). Their importance in the history of Russian botanical science is noted.

**Copy seen:** MH.

**PAVLOVSKIÏ, see** Mochul'skiï, V. I. Coléoptères recueillis par M. Pavlovski. 1859. No. 24400.

**25003. PAVLOVSKIÏ, EVGENIÏ NIKANOROVICH, 1884-** . Akademiâ nauk i izuchenie zhivotnogo mira nashel'strany. (Akademiâ nauk SSSR. Izvestiâ. Otdel

biologicheskikh nauk. Seriâ biologicheskâ, 1945. no. 2, p. 129-46) **Title tr.:** The Academy of Sciences and fauna investigations in the U.S.S.R.

Contains data on the history of the Zoological Museum of the Academy of Sciences of the U.S.S.R. and on the progress of study of fauna of the U.S.S.R. from the time of its foundation in 1725 to the present, with brief outline of research work, activities of various zoologists (Pallas, Brandt, Zernov, etc.), expeditions, including some for the exploration of arctic regions, collections and publications of the Academy. Summary in English.

**Copy seen:** MH.

**25004. PAVLOVSKIÏ, EVGENIÏ NIKANOROVICH, 1884-** . Èkspeditsionnye raboty Zoologicheskogo instituta Akademii nauk SSSR v 1931-36 gg. (Akademiâ nauk SSSR. Izvestiâ. Otdelenie matematicheskikh i estestvennykh nauk. Seriâ biologicheskâ, 1937, no. 5, p. 1613-20, text map, diag.) **Title tr.:** Expeditionary work in the Zoological Institute of the Academy of Sciences in 1931-36.

Contains a report of the expeditions organized by the Zoological Institute of the Academy of Sciences U.S.S.R. for the years 1931-36, including some expeditions to Franz Josef Land and Barents and Kara Sea (ice-breaker *Sadko*, 1935-36), expedition to White Sea for the study of the fishery, work in Kola Peninsula on the control of blood-sucking mosquitoes (V. Ï. Fridolin, see *Arctic Bibliography*, No. 5307) and the study of marine fauna of Bering Sea (E. F. Gur'ianova).

**Copy seen:** MH-2

**25005. PAVLOVSKIÏ, EVGENIÏ NIKANOROVICH, 1884-** , editor. Pamâti akademika Sergeia Alekseevicha Zernova. Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1948. 360 p., illus. incl. text maps, port. **Title tr.:** Tribute to Academician Sergei Alekseevich Zernov.

Contains a collection of papers in honor of the marine biologist, S. A. Zernov, 1871-1945, on hydrobiology, marine fauna, biology and ecology. Those relating to the Arctic appear in this Bibliography under their authors' names:

BERG, L. S. On the origin of trouts, p. 159-72.

GUR'IANOVA, E. F. Amphipoda of the Pacific Ocean, pl 287-325.

KUZNETSOV, V. V. Biology of *Lacuna palidula*, p. 72-93.

TIKHOVSKAĬA, Z. P. Seasonal cycles of the development of fucoids, p. 94-107. *Copy seen:* MH-Z.

PAVLOVSKIĬ, EVGENIĬ NIKANOROVICH, 1884- , see also Akademii nauk SSSR. Zoologicheskii institut. Zhizn' presnykh vod SSSR. 1940-50. No.20103.

25006. PAVLOVSKIĬ, V. Perspektivy razvitiia kustarnykh rybnikh promyslov Murmana. (Leningradskaiia oblast', Jan. 1929. v. 2, no. 1, p. 71-75) *Title tr.:* Prospects of development of the local fishing industry in Murman.

Contains an analysis of the conditions (at that time) of the fisheries and fishing fleet; recommendations for mechanization of the fleet and new boat construction within the five-year plan, construction of emergency harbors and financial aid for the fishermen.

*Copy seen:* DLC.

25007. PAYER, JULIUS, Ritter von, 1842-1915. Den østerrigsk-ungarske Nordpol-expedition i aarene 1872-1874; tilligemed en skitse af den anden tyske Nordpol-expedition 1869-70 og af polar-expeditionen i 1871. Kristiania, Den norske forlagsforening, 1877. cli, 1 l., 667 p. incl. front., illus., plates, ports., 3 fold. maps

*Title tr.:* The Austrian-Hungarian North Polar Expedition, 1872-1874; also a sketch of the Second German North Polar Expedition, 1869-70 and of the Polar Expedition in 1871.

Translation of his *Die Österreichisch-ungarische Nordpol-Expedition in den Jahren 1872-74*, pub. 1876. (see *Arctic Bibliography*, No. 13204), with the addition (p. 436-623) of material relating to the Second German North Polar Expedition, 1869-70, and the voyage of the *Isbjørn*, 1871. Also published in English as *New lands within the Arctic Circle*, 1876 (see *Arctic Bibliography*, No. 13202).

*Copy seen:* CST.

25008. PAYNE, NELLIE M. Freezing and survival of insects at low temperatures. (Journal of morphology, 1927. v. 43, p. 521-46, illus., tables, diagrs.)

Contains report on experiments with three kinds of insects: oak-borers, accustomed to temperature extremes; stored-products insects, representing supposedly a tropical or subtropical group, and aquatic insects never exposed to subfreezing temperatures. In all three groups determinations of freezing and

undercooling points were made during the yearly cycle. The groups showed differences in periodicity to cooling and freezing; also cold hardness was produced experimentally and the factors leading to it analyzed. Bibliography (20 items).

*Copy seen:* DSG; NNM.

PAYNE, THOMAS GIBSON, 1915- , see Gryc, G., & others. Alaska (Possible future petroleum provinces). 1951. No. 22266.

PAYNE, THOMAS GIBSON, 1915- , see also Gryc, G., & others. Present Cretaceous nomenclature N. Alaska. 1951. No. 22268.

25009. PEARCE, D. C. A bibliography on snow and ice. Ottawa. National Research Council of Canada, Oct. 1951. 69 l. (Its: Division of Building Research Bibliography no. 1, NRC 2534) Compiled with assistance of Miss B. G. White and Miss J. O'Flanagan.

Contains about 400 references to articles on snow and ice, and related topics which have appeared in a group of Canadian journals from their beginning until Dec. 1950. These journals are: *Canadian Engineer*, 1895-1940; *Roads and bridges*, 1940-49; *Roads and construction*, 1950; *Water and sewage*, 1940-1948; Canadian Society of Civil Engineers *Transactions*, 1887-1912, Royal Society of Canada *Transactions* Sec. III, 1886-1949. The references (about 300 in number and without annotation) are arranged according to subjects, with an author index; they are also listed chronologically under the journal in which they appeared.

*Copy seen:* CaMAI.

25010. PEARCE, D. C., and L. W. GOLD. The Canadian snow survey 1947-1950. Ottawa, 1951. 34 p. incl. illus., tables, graphs, map, diagrs. (Canada. National Research Council of Canada. Associate Committee on Soil and Snow Mechanics. Technical memorandum, no. 21)

"A summary of the physical characteristics of snow covers throughout Canada is presented. The survey was made by 12 observation stations at locations ranging from Resolute on Cornwallis Island (NWT. to Malton, Ont.) A general description of each location is given. The physical properties of the snow cover that were measured include specific gravity, freewater content, presence of chemical admixtures, size and shape of grains, temperature arrangement and hardness.

The instruments consisted of snow sample cutters, beam type balance, hardness gage, cup, magnifying glass, and spatula for grain size and shape measurements, and mercury and liquid-filled thermometers. The snow was described by a *Tentative Snow Classification*. Bi-weekly profile observations and daily snow cover observations were made at each station. All results were reduced to a graphical form. It was found that air temperature and wind had considerable effect on the snow cover while the influence of sunshine appeared to be small. An analysis of the snow conditions at each station including a summary of the snow profile is given."—SIPRE.

*Copy seen:* CaMAI.

**PEARCE, D. C.**, *see also* De Quervain, M. Snow & ice problems. 1950. No. 21426.

**25011. PEARSON, C. A., and M. J. KOOMEN.** Night sky brightness in Maryland and Greenland during 1949. (American Geophysical Union. Transactions, 1950. v. 31, no. 4, p. 545-46)

"Visual measurements of night sky brightness were made from stations located north of the equator by means of a photometer using a radium activated luminous phosphor button. The measured brightness refers mainly to the visible radiations from the permanent aurora originating in the upper atmosphere and is a function of altitude above the horizon. No important changes with latitude were observed; but night-to-night and long term fluctuations were revealed. A correlation between fluctuations of night sky brightness and long term trends of solar coronal indices, as observed at Climax, Colorado has been found."—*Meteorological abstracts and bibliography*, Jan. 1951. v. 2, no. 1, p. 23.

*Copy seen:* DLC; MB-BH.

**25012. PEARSON, GRANT HAROLD, 1900-**, and **PHILIP NEWILL.** I'll take sled dogs for rough going. (Saturday evening post, Dec. 23, 1950. v. 223, no. 26, p. 11-13, 44-45, illus.)

Anecdotes illustrating the acumen, sturdiness and disposition of Alaska sledge dogs, reintroduced as transportation animals for Mount McKinley National Park rangers, after trial of snow tractors.

*Copy seen:* DLC.

**25013. PEARSON, GRANT HAROLD, 1900-**, My home, my country.

(Alaska sportsman, May 1950. v. 16, no. 5, p. 12-15, 26-29, illus., ports.)

Story of Alaska Mary, the official matron of the Federal jail in Sitka, who has lived in Alaska since 1895; informative material on early social conditions and development of Sitka. *Copy seen:* DI.

**25014. PEARSON, GRANT HAROLD, 1900-**. The Seventy-mile kid. (Alaska sportsman, June 1950. v. 16, no. 6, p. 14-17, 44-49, illus.)

About Harry Karstens, a member of the first party officially credited with the ascent of Mount McKinley, 1913, and of the "Sourdough Party" which ascended the north peak in 1910; his exploits as an outdoor man, and his service to Mount McKinley National Park.

*Copy seen:* DI.

**25015. PEARSON, HENRY JOHN, 1850-1913.** "Beyond Petsora eastward". Two summer voyages to Novaya Zemlya and the islands of Barents Sea. With appendices on the botany and geology by Colonel H. W. Feilden. London, R. H. Porter, 1899. xiv, 335 p., front., illus., plates 1-88, 2 fold. maps.

A general account in diary form of two voyages to Novaya Zemlya, the first made in 1895 by the author, his brother C. E. Pearson, Col. H. W. Feilden and H. H. Slater on the yacht *Saxon*, and the second in 1897 on the chartered steamship *Laura* with Col. Feilden and F. Curtis. "The study of birds-life was the first reason and object of the voyages"—p. xiii. The narrative is presented under the following chapters:

Chap. 1 (p. 1-19) Russian Lapland, 1895; 2 (p. 19-38) Kolguyev; 3 (p. 39-55) Novaya Zemlya; 4 (p. 56-59) Arrangements for 1897; 5 (p. 60-74) Our voyage to Waigatch; 6 (p. 75-95) Dolgaja Bay, Waigatch; 7 (p. 96-117) Waigatch, Habarova, and Dolgoi; 8 (p. 118-33) Novaya Zemlya and Lutke Land [the northern island of Novaya Zemlya]; 9 (p. 134-41) Russian exploration; 10 (p. 142-68) Lutke Land and Novaya Zemlya.

Appendices A-E (p. 171-228); *Flora* of Russian Lapland, flora of Kolguyev, flowering plants of Novaya Zemlya, lichens and fungi from Novaya Zemlya by H. W. Feilden; app. F (p. 229-310), *Geology*: pt. 1, Kolguyev Island; pt. 2, Arctic Norway, Russian Lapland, Novaya Zemlya and Spitsbergen; pt. 3, Dolgoi Island, Waigatch, Novaya Zemlya and Lutke Land, by H. W. Feilden with

collaboration of Prof. T. G. Bonney, H. S. Jevons, E. T. Newton (notes on fossils) and J. Wright (Report on Pleistocene Foraminifera); App. G (p. 311-24): *Ornithology*; Index, p. 325-35.

*Copy seen:* MH.

**25016. PEARSON, HENRY JOHN, 1850-1913.** Three summers among the birds of Russian Lapland. With history of Saint Triphon's monastery and appendices. London, Porter, 1904. xvi, 216 p., ports., 68 plates, map.

*Contains* a general account in diary form with special attention to bird life (chap. 1-3, p. 1-169) of the author's three trips with his brother Charles E. Pearson to various parts of Russian Lapland: in 1899 to the northern part of the region; in 1901 to the Ukanskaya River region with a short trip to Kanin Peninsula; in 1903 to the interior of the country south of the town of Kola. History of Saint Triphon's monastery (chap. 4). *Appendices* present list of 182 species of birds with tabulated data on their distribution in 12 geographic subdivisions of Russian Lapland and Kanin Peninsula (p. 191-201); data on stores and equipment (p. 202-209).

*Copy seen:* MB.

**PEART, A. F. W.,** *see* Adamson, J. D., & others. Poliomyelitis in Arctic. 1949. No. 20041.

**PECKOVER, F. LIONEL,** *see* Legget, R. F., & F. L. Peckover. Notes on Canadian "silts". 1949. No. 23733.

**PECKOVER, F. LIONEL,** *see also* National Research Council of Canada. Subcommittee on Soil Mechanics. Bulletin. 1947. No. 24579.

**PECORA, L. J.,** *see* Talbott, J. H., & others. Hypothermia report of case. 1941. No. 26588.

**25017. PEDERSEN, ALWIN.** Der Scoresbysund; drei Jahre Forschungsreisen an der Ostküste Grönlands. Berlin, A. Scherl G. m. b. H. [c1930]. 155, [1] p., plates, fold, maps. *Title tr.:* Scoresby Sound. Three years of exploration trips on the east coast of Greenland.

*Contains* introductory sketch of the geography, plant and animal life and climate of the region; colonization and history of the Scoresby Sound settlement; account of dog sledge travel, bear (particularly), fox, hare, walrus and seal hunting with the Eskimos on the Scoresby

Sound coast and Jameson Land during 1924-27, with note of musk oxen seen, visit to depot at Cape Dalton, etc.

*Copy seen:* DLC.

**25018. PEDERSEN, P. O.** Numerical variations in Greenland Eskimo dentition. A contribution to comparative racial odontology. (*Acta odontologica scandinavica*, 1939. v. 1, p. 94-134, illus., map, tables)

*Contains* a study of (1) 527 ancient Greenland skulls (in the University of Copenhagen Institute of normal anatomy); (2) 860 modern East Greenland pure-blood Eskimos (examined by the author in summer 1937 at Angmagssalik and Scoresbysund where his party "the Danish Dental Expedition" worked in cooperation with Dr. Arne Høygaard's Norwegian biochemical research party); (3) 1634 southwest Greenland natives, largely hybrids (examined by the author in 1935 in Julianehaab District). Roentgenograms were made in the first two groups. The author was assisted by Dr. Einar Hinsch. Increase in number of permanent teeth was not found to be higher than in the white race, nor was there any difference in this respect, between the ancient and modern Greenland Eskimos and the hybrids of West Greenland. There was no evidence that fourth molars are more frequent in Eskimos than in whites. Congenital absence in the Eskimo dentition is very strange and distinctly differs from that of the white groups but has some resemblance to that of the Mongolian stock. Specifically: lower incisors are almost as often absent as upper lateral incisors; lower second bicuspids (frequently absent in whites) are very seldom missing; second and first molars were found to be missing; congenital absence of third molars is very common. Bibliography (92 items).

*Copy seen:* DLC.

**25019. PEDERSEN, TORBJØRN, and J. T. RUUD.** A bibliography of whales and whaling; selected papers from the Norwegian research work, 1860-1945. Oslo, Jacob Dybwad, 1946. 32 p. (Norske videnskaps-akademi, Oslo. Hvalrådets skrifter. Scientific results of marine biological research, nr. 30)

Authors give a brief historical sketch of modern Norwegian whaling and whaling research, noting bibliographical aids; then show periodicals which published results of this research, in most cases listing (by author) the papers in each.

Section 2 lists about 180 papers in technology and chemistry concerning the new material and products of whaling; sec. 3, about 180 papers concerning whales, their biology, and conditions for whaling.

**Copy seen:** DI.

**25020. PEHRSON, ROBERT NIEL.** Culture contact without conflict in Lapland. (Man, 1950. v. 50, p. 157-60, 6 illus. on a plate, 2 text figures)

The relations between the Karesuando mountain Lapps in Sweden and their sedentary Flenno-Scandinavian neighbours, are described as they existed in 1949: political, economic and social relations; linguistic relations; religion. The relations, on the whole, are friendly, although evidences of intercultural conflict are not entirely absent. In some other areas of Lapland, the Lapp tends to compare the tourists with mosquitoes as one of the inevitable discomforts of the summer.

**Copy seen:** DLC; InU.

**PEKARSKII**, see also No. 25088.

**25021. PEKARSKII, ÉDUARD KARLOVICH, and others.** Slovar' iakutskago iazyka; sostavlennyi É. K. Pekarskim, pri blizhatšem uchastii D. D. Popova i V. M. Ionova. S.-Peterburg. Izd-vo Akademii nauk, 1907-1930. **Title tr.:** Dictionary of the Yakut language; prepared by É. K. Pekarskii with the collaboration of D. D. Popov and V. M. Ionov.

13 [i. e. 12] pt. in 3 v. "5" omitted in numbering of parts. xviii p. 3856 col. viii p. (iAkutskaiâ ékspeditsiia snariâzhennaiâ na sredstva I. M. Sibirâkova, 1894-1896, t. 3, chast'1). The first part was originally issued in Yakutsk, 1899; revised and re-issued in 1907.

Contains about 20,000 words, (v. 1 (pt. 1-4): A-K; v. 2 (pt. 6-9) L-S; v. 3 (pt. 10-13) T-Y) collected by Bätling (i. e. Otto Böhlingk), Ionov, Popov, and (mostly) by the author himself from the Yakuts living in the regions of Yakutsk, Verkhoyansk, Vilyuysk, and Olekminsk, with the support of the Yakut Expedition of I. M. Sibirâkov 1894-96. Each word in the dictionary received as thorough treatment as possible as regards its origin or etymology, different dialectal pronunciations, relations with Mongol-Buryat and Turcic dialects, the basic root of the word and its derivatives, phraseology, synonyms, secondary meanings, etc. Names for plants, animals, places, folkloristic and mythological beings are in-

cluded; illustrations given from the living language or folk traditions as well as place where the word was recorded or its source, etc. The doubtful words are marked as such. Sources (120 items) are listed in v. 1, p. x-xviii and v. 3, p. i-viii.

**Copy seen:** DLC (pt. 1-4, 6-12); MH (pt. 1-13 complete).

**25022. PEKARSKII, ÉDUARD KARLOVICH.** Zapiska o "Slovariê iAkutskago iazyka". (Akademiiâ nauk SSSR. Izvestiia, 1905. ser. 5, t. 22, no. 2, p. 01-012)

**Title tr.:** Note on Slovariê iAkutskag iazyka.

Contains notes on the history of the preparation of this dictionary of the Yakut language, begun by the author in 1881 and containing about 20,000 words. The system of Otto Böhlingk is discussed and a list of the dictionary's sources (109 items) given.

**Copy seen:** MH.

**25023. PEKKALA, MAUNO.** Verolepano- ja jakotoimituksista Kuusamon, Kemijärven ja Kuolajärven knihtikontrahtipitäjissä. Helsinki, 1921. 230, 5 p., map, tables. (Acta forestalia fennica, 21) **Title tr.:** Tax assessment and measures for division of lands in Kuusamo, Kemijärvi and Kuolajärvi with special reference to early land grants. A study of government policy on forest areas.

The lands and forests in northern Finland originally were granted to individuals in compensation for war services rendered the government. The general political history of these military land grants from 1682 to the present, and problems of colonization in the North are described. Bibliography (about 200 items). Summary in German.

**Copy seen:** DLC.

**25024. PELLERVO.** Tavallisimmat rekimallit. (Pellervo, 1950. v. 51, no. 22, p. 712, illus.) **Title tr.:** The most used types of sleigh runners.

A brief sketch illustrating the build of the most commonly used sleigh runners in Finland, with suggestion for reducing the number of types and standardizing the build, to facilitate replacement of parts and to reduce costs.

**Copy seen:** DA.

**25025. PENARD, J. M.** Land ownership and chieftaincy among the Chipewayan and Caribou-eaters. (Primitive man, 1920. v. 2, p. 20-26)

Account by Catholic missionary long

resident among the Chipewyans, an Indian group hunting, trapping and fishing from Hudson Bay and Churchill River westward to the Coppermine region. He shows the system of land ownership based on the family hunting territory or trap-line; notes their loose social organization, their feuds with neighboring Crees, Eskimos and Yellowknife Indians. Comment and correlation with other literature is added by the editor, J. M. Cooper.

**Copy seen:** DLC.

**25026. PENCK, ALBRECHT, 1858-1945.** Finnlands Natur. (Gesellschaft für Erdkunde zu Berlin. Zeitschrift, 1927, p. 482-508) **Title tr.:** The nature of Finland.

Description of the geology, surface features, forests and climate of Finland as a whole, with bibliographic footnotes (39 items).

**Copy seen:** DLC.

**25027. PENNDORF, RUDOLF.** The annual variation of the amount of ozone of northern Norway. (Annales de géophysique, 1950. t. 6, no. 1, p. 4-9, 3 figs., table)

"Normal daily ozone values and the interdiurnal variations of the amount of ozone have been calculated for Tromsø, Norway. The annual variation of ozone *E* is analyzed. The interdiurnal variation differs considerably between winter and summer; the standard deviation in July is  $9.5 \times 10^{-3}$  cm. and in December  $56 \times 10^{-3}$  cm. In summer the equilibrium between ozone formation and dissociation is maintained more or less throughout most of the Northern Hemisphere so that the differences of the vertical distribution are small and the interdiurnal variation is small. In winter the vertical distribution is different over middle and high latitudes and so ozone is formed over the polar region. Hence, advection determines the amount of ozone *E*."—*Meteorological abstracts and bibliography*, Jan. 1951. v. 2, no. 1, p. 14.

**Copy seen:** DLC; MH-BH.

**25028. PENROD, KENNETH EARL, 1916- , and F. R. ROSENHAIN.** Blood gas content of dogs during immersion hypothermia. (Federation proceedings, Mar. 1949. v. 8, p. 126)

Analyses of arterial and venous blood from one group of dogs breathing air before immersion and a second group breathing 100% O<sub>2</sub>. In group one, approaching respiratory inadequacy ap-

peared above 25° C. rectal temperature to 20°; dogs surviving to below 20° C. showed venous O<sub>2</sub> content equal to, or greater than pre-immersion levels. In group two nearly every case showed respiration depressed throughout; some showed respiratory failure above 25° C.; and the venous O<sub>2</sub> content was higher in many at 25° C. than before immersion.

**Copy seen:** DLC.

**25029. PENROD, KENNETH EARL, 1916- .** Oxygen consumption and cooling rates in immersion hypothermia in the dog. (American journal of physiology, June 1949. v. 157, p. 436-44)

Contains a report on experiments with seven lightly anesthetized dogs, cooled by immersion in cold water to a rectal temperature of 20° C., and rewarmed; O<sub>2</sub> consumption and rates of temperature change were recorded continuously; observations on cooling rates of dead dogs are also presented. It is concluded that shivering (which is largely an individual characteristic, at least under anesthesia) has a profound influence on O<sub>2</sub> consumption and rate of cooling; only at the lowest temperatures where shivering is never seen is it possible to predict accurately the metabolic response of a given animal. Bibliography (20 items).

**Copy seen:** DLC

**PENROD, KENNETH EARL, 1916- ,** see also Brokaw, R., & K. E. Penrod. Bromsulphalein removal rates hypothermia dog. 1949. No. 20925.

**PENROD, KENNETH EARL, 1916- ,** see also Rosenhain, F. R., & others. Blood gas studies in hypothermic dog. 1951. No. 25657.

**PENROD, KENNETH EARL, 1916- ,** see also Rosenhain, F. R., & K. E. Penrod. Effect immersion hypothermia on cardiac output. 1949. No. 25658.

**PENROD, KENNETH EARL, 1916- ,** see also Wolff, R. C., & K. E. Penrod. Effect altered metabolical hypothermia dogs & rats. 1949. No. 27476.

**PENROD, KENNETH EARL, 1916- ,** see also Wolff, R. C., & K. E. Penrod. Factors affecting rate of cooling in immersion hypothermia in the dog. 1950. No. 27477.

**25030. PENTILÄ, AARNI.** Die Vertretung des urpermischen inlautenden \*n im heutigen Syrjänischen und Wotjaki-

schen. (Finnisch-ugrische Forschungen, 1927. Bd. 18, p. 108-115) **Title tr.:** The representation of the old Permian \*n in the present-day Zyryan and Votyak languages.

The question is not yet definitely solved, because the half vowel \*n is rather rare in the Permian languages and usually replaced by m, n, or ŋ.

**Copy seen:** DLC; InU.

**25031. PEOT, JOSEPH J.** The Arctic can be our ally. (Military review, Feb. 1952. v. 31, no. 11, p. 3-16, incl. illus., table, graphs, maps)

"Military operations in the Arctic and sub-Arctic are affected by sparse settlement, lack of roads and railroads, many lakes and waterways, and too few maps. Arctic operations are influenced by ice cover, extreme cold, sudden variations in weather, and seasonal transition. Arctic operations are considered special operations and particular attention must be paid to equipment, selection of personnel, and logistical support. Mobility can be increased by the use of skis, by reducing the loads carried, by using tracked vehicles such as the snowmobile and self-propelled artillery. Portable, heated shelters are required for effective arctic operations."—SIPRE.

**Copy seen:** DLC.

**25032. PERELESCHIN, S. D.** Zimnee pitanie pes̃sa v ĭamal'skom okruge. (Zoologicheskij zhurnal, 1943. t. 22, vyp. 5, p. 299-313) **Title tr.:** Winter nutrition of the arctic fox in the Yamal district.

Contains the results of the study of the contents of the digestive tracts of 898 arctic foxes, carried out in Yamal Peninsula during the winters of 1936/37-1938/39, with four tables of pertinent data for various districts. Summary in English. **Copy seen:** DLC; MH-Z.

**25033. PEREVALOV, V. A.** Geograficheskoe otkrytie Aljaski i Lomonosov. (Priroda 1950, no. 11, p. 65-68) **Title tr.:** Geographic discovery of Alaska and Lomonosov.

Contains remarks on the role played by the noted Russian scientist M. V. Lomonosov (1711-1765) in arousing active interest among members of the Russian Academy of Sciences and some government officials in the exploration of Alaska, with historical notes on the expedition of S. G. Glotov to the Aleutian Islands in 1758-62 and on Lomonosov's

report on this expedition (map of islands compiled by him), on his instructions for future arctic expeditions which aided P. K. Krenitsyn (1768-69), G. A. Sarychev (1785-93) and G. Shelekhov, the founder of Russian-American Co. on Kodiak Island in 1781, and others. Includes also notes on some papers of Lomonosov concerning arctic regions, Alaska and the Northeast Passage.

**Copy seen:** MH-Z.

**25034. PEREVALOV, V. A.** Lomonosov i Arktika. Iz istorii geograficheskoi nauki i geograficheskikh otkrytij. Moskva-Leningrad, Izd-vo Glavsevmorputi, 1949. 504 p., illus., ports., facsim., maps (4 fold.) **Title tr.:** Lomonosov and the Arctic. From the history of geographical science and geographical discoveries.

Contains three parts: 1 (p. 23-215). Text of Lomonosov's *Kratkoe opisaniye raznykh puteshestvij po severnym moram* . . . etc., 1763 (published in 1847), q. v., with extensive commentaries: 2 (p. 217-381). Activities of M. V. Lomonosov in the organization of Russian arctic expeditions, includes two supplements to *Kratkoe opisaniye*, also *Primernaiu instruksiu morskim komanduushchim ofiseram* . . . etc., 1765, q. v., with extensive commentaries: 3 (p. 383-431). Description of expedition under V. Ė. Chichagov, 1765-66; and (p. 433-66) of expedition under P. K. Krenitsyn, 1764-71.

Parts 1-2 give a characterization of M. V. Lomonosov as a Russian scientist, inventor, statesman and poet, with a full account of his interest and work in the Arctic and added commentaries offering up-to-date information on arctic travel, with extensive bibliography. This supplemental material includes notes on: the founding of Arkhangel'sk and Russian expansion eastward (p. 48-51); relics of ancient Russian northeastern expeditions (p. 88-93); the conquest of Siberia by Stroganov and Ermak (p. 104-114); expeditions of F. A. Popov and S. I. Dezhnev and the discovery of Kamehatka by V. Atlasov in 1697 (p. 114-18); the activities of Peter the Great and the Great Northern Expedition (p. 120-27); the discovery of the American coast of Bering Strait by M. S. Gvozdev in 1732 (p. 128); northeastern discoveries of Russian merchants and Cossacks (A. Shestakov and others), (p. 132-33); the expedition of Bering and Chirikov (p. 137-39); the alleged crossing of the Arctic sea by the

Portuguese, D. Melguer (1660) and its influence on Lomonosov's views (p. 139-40); travels of S. G. Glotov, 1758-62 and his description of the Aleutian Islands (p. 263-83); comments on Lomonosov's views on the origin, classification, amount and distribution of arctic marine ice and on his concept of an arctic sea route starting from between Spitsbergen and Greenland, a variant of the Northwestern Sea Route (p. 141-214).

Part 2 is a documented outline of Lomonosov's efforts toward the realization of his plans, and his participation in preparations for Chichagov's and Krenitsyn's expeditions.

Part 3 contains a documented account of the Northwestern Sea Route expedition under Captain V. Ā. Chichagov in 1765 and 1766, its preparation, equipment, the two voyages to Spitsbergen and failure to penetrate farther. Notes on the voyages of Ākov Chirakin, who in 1766 discovered Matochkin Shar, and of Fedor Rozmyslov, who in 1768-69 attempted to penetrate through this strait into the Kara Sea (p. 427-30); on the expedition to the Aleutian Islands and Alaska under Captain Krenitsyn, 1764-71, supplemented by notes on Northeastern expedition of I. Billings and G. A. Sarychev in 1785-93, who explored Aleutian Islands and northwestern coast of America (p. 460-64).

Supplement (p. 467-91) contains documents on Lomonosov's arctic activities. Appended are an index of names and bibliographical index. *Maps* include Lomonosov's arctic map (fold. between p. 140-41), indicating sea routes he planned, and maps of routes of the expeditions of Chichagov (p. 395) and Krenitsyn (p. 457). **Copy seen:** DLC.

**25035. PEREZ, MICHEL.** Glaciologie. (In: Victor, Paul-Émile, and others. Rapport préliminaire de la campagne au Groenland 1949, pub. 1950, p. 25-27). Text in French. **Title tr.:** Glaciology.

"Surface stratifications in Greenland were studied to the 7-m. depth by direct observation, ramming, and hardness and density profiles. Temperature distribution within the inland ice was measured by resistance and mercury thermometers at depths of 15 m., 25 m. and 36 m. Ablation measurements were made three times over a six-week span. The findings when compared with those of Wegener in 1933 indicate a decline in mean precipitation, thinner and less dense annual

layers, and similar temperature, accumulation and ablation values. Further observations are recommended."—SIPRE.

**Copy seen:** CaMAI.

**25036. PERFIL'EV, IVAN ALEKSANDROVICH, 1882-1942.** Flora Severnogo Kraia, chast' 1, vysshie sporovye, golosemiānyye i odnodol'nye; chast' 2-3, dvudol'nye. Arkhangel'sk, Severnoe kraevoe izd-vo, 1934, 1936. 160 p., map; 397, [x] p., illus. **Title tr.:** Flora of the Northern Region, part 1, cryptogams, gymnosperms, monocotyledons; parts 2-3, dicotyledons.

Contains a short characterization of the Northern Region, including Arkhangel'sk province, Novaya Zemlya, Vaygach Island and Kolguev Island; its floristic zones; introductory remarks on the morphology of its plants; a key for the determination of families and descriptions of species: in pt. 1 (pub. 1934) Embryophyta asiphonogama (p. 40-51), Gymnospermae (p. 52-54), and Angiospermae Monocotyledonae (p. 54-159); in pt. 2 (pub. 1936), Archichlamydeae (p. 22-246); pt. 3, Metachlamydeae (p. 247-392) with data on local distribution and habitat. Bibliography (126 items) and an index of Russian/botanical names (pt. 3, p. ii-ix). Sketch-map, pt. 1, p. 7, shows the division of the Northern Region into floristic zones.

**Copy seen:** DLC.

**25037. PERFIL'EV, IVAN ALEKSANDROVICH, 1882-1942.** Materialy k flore ostrovov Novoi Zemli i Kolgueva. Arkhangel'sk, Severnyĭ pechatnik, 1928. 73 p., illus., 9 plates. **Title tr.:** Materials on the flora of Novaya Zemlya and Kolguev Islands.

Contains a brief physico-geographic sketch of Novaya Zemlya, a systematic list of 160 flowering plants and vascular cryptogams collected by the author, in 1926 on the western coast of Novaya Zemlya and in the vicinity of Varnek Bay, Vaygach Island (p. 13-34), a general survey of the vegetation of Kolguev Island (p. 35-49), and a systematic list of over 150 flowering plants, with phenological and ecological data and descriptions of four (including two new) birch (*Betula*) hybrids. **Copy seen:** DLC.

**25038. PERGAMENT, T. S.** Bentos Karskogo moria. (Problemy Arktiki, 1944, pub. 1945, no. 1, p. 102-132, tables, sketch maps) **Title tr.:** Benthos of Kara Sea.

Summary of investigations of benthos in Kara Sea by 52 expeditions and stations, from the 18th (but mainly during the 20th) century till 1937; with a list of stations, p. 104-107, a list of 1196 faunal species, p. 108-121, and seven text maps of Kara Sea, showing distribution of certain species of benthos, currents, and division of Kara Sea into specific benthonic regions. Bibliography (32 items).

**Copy seen:** DGS.

**25039. PERMINOV, G. N.** Obzor vidov roda *Eumicrotremus* Gill. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1936. No. 19, p. 115-29, illus.) **Title tr.:** A review of the species of the genus *Eumicrotremus* Gill.

**Contains** a critical revision of six species and two new forms of fishes of the genus *Eumicrotremus*, with a table for the determination of the species, synonymy, descriptions, list of localities in the Far Eastern seas and data on distribution; bibliography (28 items). Summary in English. **Copy seen:** DLC; MH-A.

**25040. PERROUD, PAUL.** Navigation terrestre. (In: Victor, Paul-Émile, and others, Rapport préliminaire de la campagne au Groenland 1949. Paris, 1950, p. 22-24) **Title tr.:** Terrestrial navigation.

**Contains** a statement of the problems of navigation on the Greenland icecap, which resemble those of the open sea, followed by sections on calculating and keeping direction; measuring distances; use of the flight compass; astronomical determinations; instruments and methods used; sources of error, etc.

**Copy seen:** CaMAI.

**25041. PERRY, EDWARD L., and B. T. HORTON.** Use of pyribenzamine in prevention of histamine-induced gastric acidity and headache and in treatment of hypersensitivity to cold. (American journal of the medical sciences, Nov. 1947. v. 214, p. 553-58, 3 fig., table)

**Contains** a study of the antihistaminic properties of pyribenzamine, and its effect on the symptoms of hypersensitivity to cold. Three patients of the latter category were studied; the drug was of some value in reducing the severity or duration of symptoms but it was not found to be a cure for cold hypersensitivity. Bibliography (8 items).

**Copy seen:** DLC.

**PERRY, J. S.,** see Nicholas, J. E., & J. S. Perry. Basic behavior freezing & thawing foods. 1951. No. 24635.

**25042. PERSON, HERMANN.** Entwicklung und Einsatz von unbemannten automatischen Wetterfunkstationen im Polargebiet. (Polarforschung, 1948, pub. 1950. Bd. 2, Jahrg. 18, p. 6-9, i. e. p. 202-205) **Title tr.:** Development and positions of unmanned automatic weather radio stations in the polar region.

**General description** of the apparatus for transmitting atmospheric pressure and temperature, also (for land types only) the direction and velocity of wind; an account of their installation and launching during World War II by crews of submarines in the Atlantic between Iceland and the Labrador coast, and for a limited time on Jan Mayen, Bear Island, West Spitsbergen and Novaya Zemlya.

**Copy seen:** DGS.

**25043. PERSSON, ÅKE, and H. RUNEMARK.** Some interesting vegetation types on the northern side of Torneträsk (preliminary report). (Botaniska notiser, 1950, häfte 2, p. 223-38, illus.)

**Contains** a study of the vegetation in Palnoviken-Tuoptijokk district on the northern side of Torneträsk (lake) in Swedish Lapland, carried out by the authors in 1948 and 1949. Includes the vegetation of mires, forests with a field layer dominated by high-grown ferns and vegetation of "southern precipices", with critical notes and lists of plant observed; bibliography (20 items).

**Copy seen:** MH-A.

**25044. PERSSON, BIRGER.** Skalbaggat, hittade i Lycksele socken, ej upptagna för Lappland i Catalogus Coleopterorum Daniae et Fennoscandiae. (Entomologisk tidskrift, 1950. Årg. 71, häft. 1, p. 84-85) **Title tr.:** Beetles found in Lycksele parish and not recorded in Lapland in the "Catalogus Coleopterorum Daniae et Fennoscandiae".

**Contains** a list of about 50 beetles found in Lycksele parish of Swedish Lapland which are not included in W., Hellén, and others, Catalogus Coleopterorum Daniae et Fennoscandiae, 1939, q. v., with brief data on habitat and local distribution. **Copy seen:** DA; MH-Z.

**25045. PERSSON, HERMAN, 1893-** Additional list of Alaskan-Yukon mosses.

(Bryologist, Dec. 1952. v. 55, no. 4, p. 261-79)

Contains an account (supplementary to the item below) of over 50 species, many new for either area; and based on material from three collections. Data include localities and dates of previous finds, geographical range, frequency, etc. Bibliography (29 items).

**Copy seen:** DA

**25046. PERSSON, HERMAN, 1893-** . Critical or otherwise interesting bryophytes from Alaska-Yukon. (Bryologist. Mar. and June, 1952. v. 55, no. 1-2, p. 1-25, 88-116, maps)

Contains a study on distribution and new localities of mosses and liverworts, not mentioned in the author's earlier publications, with critical remarks etc.; also contributions to the knowledge of the genus *Bryum*. Data include earlier finds and localities, forms new to areas, distribution outside areas studied, substrates, morphology (if not sufficiently known), etc. Bibliography (about 60 items).

**Copy seen:** DA.

**PERSSON, HERMAN, 1893-** , see also Lagerkranz, J. Observ. on flora W. & E. Greenland. 1950. No. 23598.

**PERSSON, NATHAN PETER HERMAN, 1893-** , see **PERSSON, HERMAN, 1893-** .

**PERTUIT, CAMILE JOSEPH, 1919-** , see Wallace, M. M., & others. Contribution to biology of king crab. 1949. No. 27237.

**25047. PESOLA, VILHO A.** Kalsium-karbonaatti kasvimaantieteellisenä tekijänä Suomessa. (Suomalainen eläin- ja kasvitieteellinen seura vanamo. Julkaisuja, 1929. 9:1, p. 1-227, 8 illus. plates, map, tables) **Title tr.:** Calcium carbonate as a factor in the distribution of plants in Finland.

Contains data (collected in summer 1917) on an area (counties of Kuusamo and Kuolajärvi) between 66°10' and 67°10' N. lat. and another area (1914-15, 1918) 340 miles south, with which comparisons are made. The relation of numerous plants to calcium carbonate under differing terrain, vegetation, and climate conditions is described.

Investigation was made (1) to determine influence of lime in the soil upon distribution of phanerogamic plants (and ferns), also its influence on composition

of the plant associations; (2) to discover reason for this influence. The floristic composition of about 900 plant associations situated in soil high or low in lime were investigated and compared. Distribution of plants in these regions and throughout Finland in relation to lime in the soil was worked out and compared with results from these plant association studies. Summary in English, p. 236-45.

**Copy seen:** DLC.

**25048. PESOLA, VILHO A.** Die Waldvegetation feuchten Geländes in N-Kuusamo und SE-Kuolajärvi. Helsinki, 1934. 14 p., tables. (Acta forestalia fennica, 40:5) **Title tr.:** Forest vegetation on moist lands in northern Kuusamo and southeast Kuolajärvi.

Tabulation (giving locality and occurrence) of 48 hay grasses, about 100 herb grasses, 6 dwarf shrubs, 26 trees and bush types, and the forest types, as encountered in the summer of 1917 in this region (about 66° N.) of northern Finland. Summary in English.

**Copy seen:** DLC.

**25049. PESTA, OTTO.** Kritische Revision der Branchipodidensammlung des Wiener naturhistorischen Staatsmuseum. (Vienna. Naturhistorisches Staatsmuseum. Annalen, 1921. Bd. 34, p. 80-98, illus.) **Title tr.:** A critical revision of the Branchiopoda of the State Museum of Natural History at Vienna.

Contains critical revision of 25 species of fresh-water crustaceans of the group Branchiopoda from various regions, including *Branchinecta paludosa* native to Greenland and Tromsø region of northern Norway. **Copy seen:** DSI-M; MH-Z.

**25050. PETERSEN, BJÖRN.** Bidrag till kännedomen om svenska fjärrillars utbredning. (Entomologisk tidskrift, 1940: Årg. 61, häft. 1-2, p. 46-47) **Title tr.:** Contributions to the knowledge of distribution of Swedish lepidoptera.

Contains a list of 57 species of Swedish lepidoptera, including six native to Swedish Lapland, and a list of 22 localities with Karesund, Njunjes, Kvikkjokk and Ortovere in Swedish Lapland.

**Copy seen:** MH-Z.

**25051. PETERSEN, BJÖRN.** The heat rigor temperature of Swedish mountain Lepidoptera. (Entomologisk tidskrift, 1948. Årg. 69, häft. 3, p. 135-41, diags.)

Contains the results of an investigation of the heat rigor temperature of some

Swedish mountain lepidoptera and its correlation with the cold rigor temperature and thermo-preferendum (fig. 1 and 2); based partly on material from Abisko, Torne Lappmark.

**Copy seen:** DA; MH-Z.

**PETERSEN, C. G. JOHAN**, see Spärek, R. Über d. zoogeog. Bedeutung Tiergemeinschaften. 1936. No. 26366.

**PETERSEN, ESBEN**, see **ESBEN-PETERSEN, PETER, 1869-**

**PETERSEN, H.**, see Scheel, H. Natjere og sjagger. 1927. No. 25923.

**25052. PETERSEN, HELGE.** Klima og vjertjeneste. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 1, p. 137-56, illus., diagrs.) **Title tr.:** Climate and weather service.

Analysis and characterization of Greenland's climate and that of the inland ice and coastal regions, with notes on the typical foehn (wind) and on the weather service now maintained on Greenland.

**Copy seen:** DSI-M.

**25053. PETERSEN, HELGE.** Meteorology in Denmark. (International Geodetic and Geophysical Union. Association of Meteorology, Oslo, 1948. Procès-verbaux, Nov. 1950. v. 3, p. 8-9)

"Revival of service in Denmark in 1947, and establishment of meteorological service in Greenland since the war (20 stations report surface data and five upper air). Work of Central Bureau for Liquidation of International Polar Year (1932-1933) mentioned."—*Meteorological abstracts and bibliography*, July 1952. v. 3, no. 7, p. 694.

**Copy seen:** DLC; DWB.

**25054. PETERSEN, JOHANNES BOYE.** Observations on some small species of *Eunotia*. (Dansk botanisk arkiv, 1950. Bd. 14, nr. 1, p. 1-19, plates 1-2)

Contains descriptive and critical notes on six species of diatom genus *Eunotia*, with two tables of dimensions and illustrations; includes *E. septentrionalis* occurring in East Greenland and Franz Josef Land. **Copy seen:** DA; MH-A.

**PETERSEN, W.**, see Grønblom, T., & T. H. Clayhills. Einige Berichtigungen z. Petersen's Lepidopteren Fauna. 1924. No. 22247.

**25055. PETITOT, ÉMILE FORTUNÉ STANISLAS JOSEPH, 1838-1917.** Vocabulaire français-esquimau; dialecte des

Tehigit des bouches du Mackenzie et de l'Anderson; précédé d'une monographie de cette tribu et de notes grammaticales. Paris, E. Leroux; San Francisco, A. L. Bancroft co., 1876. 3 p. l., lxiv, 75, [1] p. illus. (Bibliothèque de linguistique et d'ethnographie américaines, publiée par A. L. Pinart. v. 3) **Title tr.:** French-Eskimo vocabulary; dialect of the Tshigit at the mouth of the Mackenzie and Anderson Rivers; with a monographic introduction on this tribe and some grammatical notes.

Contains besides a summary of the grammar (p. xxxix-lxiv), and an extensive vocabulary (75 p.) of the Mackenzie Eskimos, some account of the Eskimo language generally, its agglutination, use of suffixes and prefixes, similarities and differences among several Eskimo dialects. The monograph (p. ix-xxxvi) gives names and locality of 18 Eskimo tribes (numbering about 2000) in Canada and Alaska. The Mackenzie Eskimos are discussed in detail; their mode of life, racial appearance and mental characteristics, more common diseases; clothing, summer and winter dwellings (with diagrams) and their equipment; implements, sledges and boats; nomadic life, fishing and hunting seasons, preparation of food, trade; the Eskimo knife and its use, walrus and mammoth ivory carvings, etc. The Asiatic origin of Eskimos, the author finds borne out by their traditions, customs and utensils. He lived and traveled as Oblate missionary in north-western Canada 1862-82 and had visited Eskimo groups five times, twice in 1869 and 1870, spending the summer among them, before compiling this vocabulary.

**Copy seen:** DLC.

**PETITOT, É. F. S. J., 1838-1917**, see also Frazer, J. K. Identification R. La Roncière. 1952. No. 21908.

**25056. PETRENKO, A. A.** Osnovnye cherty geologii Severnogo ostrova Novol Zemli k ūgu ot Russkof Gavani. (Vserossiiskoe mineralogicheskoe obshchestvo. Zapiski, 1940. Seria 2, ch. 69, vyp. 2-3, p. 367-84, illus., fold. map) **Title tr.:** Main characters of the geology of Northern Island, Novaya Zemlya southward from Russkaya Gavan'.

"The region is composed of Paleozoic sedimentary formations, with rare diabase intrusions and local Quaternary deposits, and comprises two major folds which exhibit a zonal structure. The oil possibilities are considered favorable." Geo-

logical Society of America, *Bibliography and index of geology*, 1947, pub. 1948, v. 12, p. 183.

The region was explored in the summer of 1936 by the Expedition of the Arctic Institute from Russkaya Gavan' to Arkhangel'sk Bay on the western coast of Novaya Zemlya. See also *Arctic Bibliography*, No. 18652.

**Copy seen:** MH.

**25057. PETRIE, WILLIAM, 1912-** . The near-infrared spectrum of the polar aurora. (*Journal of geophysical research*, June 1950. v. 55, p. 143-51, illus., tables)

Discussion of infrared spectra, "secured with a new spectograph which gives a first-order dispersion of 40 Å/mm," during auroral displays since Feb. 21, 1949; and of the intensities of a number of spectral features. *Bibliography* (10 items).

**Copy seen:** DGS.

**PETRAJEFF, A. T.,** see Shastin, N. R., & A. T. Petrajef. *Rachitis bei Kindern*. 1933. No. 26083.

**25058. PETROV, A. M., and A. A. DUBNIŤSKIĬ.** K izucheniiu biologii *Strongyloides vulpis* i epizootologii golubykh pestsov. (Akademiia nauk SSSR. Gel'mintologicheskii sbornik, 1946, p. 202-207) **Title tr.:** A contribution to the biology of *Strongyloides vulpis* and an epizootic of the blue arctic foxes.

Contains the results of the study of the life cycle of a strongyle, *Strongyloides vulpis*, found in enormous quantities in the intestine of blue arctic foxes during an epidemic in Moscow zoo park in 1940, and on some experimental stations. The study was carried out in the Kola Peninsula in the winter of 1940-41; 79 of the 1323 animals were found sick (5.9 per cent).

**Copy seen:** MH-Z.

**25059. PETROV, V. V.** Beiträge zur Systematik der palaearktischen Wölfe. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1927, pub. 1928. t. 28, vyp. 3, p. 297-331) **Title tr.:** Contributions to the systematics of palaeartic wolves.

Contains a study of the systematic characteristics of palaeartic wolves based on measurements of skulls of many specimens from various regions of Russia, including a group of eleven skulls from the lower Lena-Yana River region of north-eastern Siberia.

**Copy seen:** DLC; MH-Z.

**25060. PETROV, VALERIAN GAVRILOVICH.** Naledi na Amursko-Ĭakutskoi magistrali. Leningrad, Izd-vo Akademii nauk SSSR i Nauchno-issl. avtomobil'-nodorozhnogo in-ta, 1930. 2 v.: 177 p. 44 illus., maps, 3 fold. diagrs.; and atlas 2 p., 36 l. (120 profiles) 21 x 30 cm. **Title tr.:** Naleds along the Amur-Yakutsk main line.

Contains a study of naleds along the 1300 km. of this line, during the winter of 1927-28. The text consists of three parts: (1) an investigation of naleds and ice conditions along the line (p. 19-130) including a general and a detailed point by point description of naleds and other frost phenomena and their dynamics; (2) account of the struggle with naled (p. 131-60) dealing with naled types and means of combatting them and (3) general conclusions of the study and of preventive measures including construction of "frost belts" (p. 161-77).

Atlas contains 120 plans or profiles of naleds along the line, drawn to scale and exactly dated. Several plans include projected or actual "frost belts," i. e. wide, usually flat, ditches dug near the road, which cause extensive freezing thus "withdrawing" naleds from the road.

**Copy seen:** DLC.

**25061. PETROV, VALERIAN GAVRILOVICH.** Opyt stadial'nogo analiza "okhotnich'ikh igrishch"; k postanovke voprosa. (Sovetskaiia étnografiia, 1934. no. 6, p. 140-77) **Title tr.:** An experiment in scientific analysis: the matter of "hunters' games" is raised.

Contains an attempt to explain the bear festivals from the Marxist point of view, as hunters' recreational activities or games, not bear worship with religious ceremonial and ritual. Numerous references are made to Samoyed and Gilyak bear ceremonies.

**Copy seen:** DLC.

**25062. PETROVA, T. I.** Vremfaischislenie u tunguso-manchzhurskikh narodnostei. (In: Akademiia nauk SSSR. Institut étnografii. Pamfati V. G. Bogoraza, 1865-1936, pub. 1937. p. 79-121, tables (1 fold.)) **Title tr.:** Chronology among Tungus-Manchu peoples.

Tungus-Manchu peoples have a lunar-natural year consisting of four to seven seasons, also of twelve to fourteen smaller periods called moons, of which the names are quoted and analyzed. The Lamuts have a logical and peculiar system of naming the months according to parts of the body. The Manchus have taken over

the Chinese system. The others have mostly names suggestive of natural phenomena and economic activities. A Tungus month can have 15, 20, or some other number of days. In earlier times a winter "year" and a summer "year" were distinguished. The days are counted by "nights", and can be divided in four to seventeen unequal parts.

**Copy seen:** DLC.

**PETROVSKII, B. L.**, see Chistiakov, V. F., & others. *Sluchaĭ groz.* 1950. No. 21196.

**25063. PETTERSEN, KARL JOHAN, 1826-1890.** Arktis (andet bidrag). (Archiv for matematik og naturvidenskab, 1882. Bd. 6, p. 465-89) **Title tr.:** The Arctic (second contribution).

*Contains* a general survey of the European Arctic, including northern Scandinavia, Spitsbergen, Franz Josef Land and Novaya Zemlya, with data on geology, orography, tectonics and geological history, based on literature sources and scientific material collected by various arctic expeditions. The first part of this paper has not been seen.

**Copy seen:** MH-Z.

**25064. PETTERSEN, KARL JOHAN, 1826-1890.** Lofoten og Vesteraalen. (Archiv for matematik og naturvidenskab, 1881. Bd. 5, p. 269-435, plate; 1882, pub. 1881, Bd. 6, p. 81-111, fold. map) **Title tr.:** Lofoten and Vesteraalen.

*Contains* a study of the geological structure of Lofoten and Vesteraalen Islands off the west coast of northern Norway, arranged by island; and descriptions of minerals in their rock formations.

**Copy seen:** MH-Z.

**25065. PETTERSEN, KARL JOHAN, 1826-1890.** Det nordlige Sveriges og Norges geologi; med et geologisk profil over den skandinaviske Halvø fra Salt-dalen til Peteå. (Archiv for matematik og naturvidenskab, 1878. Bd. 3, no. 1, p. 1-38) **Title tr.:** Geology of northern Sweden and Norway; with a geological profile through the Scandinavian Peninsula from Salt-dalen to Peteå.

*Contains* a general geological sketch of the region, with characterization of its four geological subdivisions, data on their rock formations and mineralogical content.

**Copy seen:** MH-Z.

**25066. PETTERSEN, KARL JOHAN, 1826-1890.** Om et geologisk profil fra

rigsgraendsen over Lyngen til Kvalø. (Norske videnskaps-akademi, Oslo. Forhandling, 1867, pub. 1868, p. 155-58, plates 1-9) **Title tr.:** On the geological profile from the national boundary through Lyngen to Kvalø.

*Contains* data on the profile, structure and mineralogical content of this region (about 69°50' N.) in Troms province, northern Norway.

**Copy seen:** DLC; MH-Z.

**25067. PETTERSEN, KARL JOHAN, 1826-1890.** Profil gjennem Vest-Finmarken fra Sør-Sund mod Vest til Porsanger mod Øst. (Norske videnskaps-akademi, Oslo. Forhandling, 1874, pub. 1875, p. 180-84, plate 5) **Title tr.:** Profile through West Finnmark from Sør-Sund in the west to Porsanger in the east.

*Contains* a geological profile, with data on rock formation, composition, structure and geological age.

**Copy seen:** DLC; MH-Z.

**PETTERSSON, BROR**, see Hustich, I., & B. Pettersson. Notes vascular plants Labrador. 1943. No. 22750.

**25068. PETTIBONE, MARIAN HOPE, 1908-** . A new species of polychaete worm of the family Polynoidae from Point Barrow, Alaska. (Washington Academy of Sciences. Journal, Jan. 1951. v. 41, p. 44-45, illus.)

Description of *Eunoë clarki*, n. sp., from two specimens of this annelid worm which were washed ashore at Point Barrow, Oct. 1949.

**Copy seen:** DGS; DSI-M.

**25069. PETTIBONE, MARIAN HOPE, 1908-** . Polychaetous annelids of the Polynoidae from the northeastern Pacific, with a description of a new species. New York, 1949. 5 p., plate. (American Museum of Natural History, New York. American Museum novitates. no. 1414)

On a reexamination of polychaete worms collected from Alaska in 1924 by R. A. Bartlett, identifications are shown to be incorrect as published in A. L. Treadwell's *Polychaetous annelids collected by Captain R. A. Bartlett* [etc.] 1926, (see *Arctic Bibliography*, No. 17961). *Gattyana treadwelli* is now described as a new species.

**Copy seen:** DSI-M.

**PETTIT, HELEN**, see Barbier, D., & H. Pettit. Photometric observations of aurora, College, Alaska. 1952. No. 20460.

**PETURSON, B.**, see Pady, S. M., & others. Arctic aerobiology III. Presence of spores. 1950. No. 24931.

**25070. PEUS, FRITZ.** Zur Kenntnis der Dixiden-Fauna Nord-Europas (Dipt., Nematoc.). (Norsk entomologisk tidskrift, 1936. Bd. 4, hefte 3., p. 117-27, illus.)  
**Title tr.:** A contribution to the knowledge of Dixidae fauna of North Europe.

Contains a critical study of 12 species of dipterous genus *Dixa* (subgenera *Paradiza-Dixina* and *Dixa* s. str.) with lists of localities in northern Europe for each species; includes 8 species native to northern Norway, Swedish and Finnish Lapland and Kola Peninsula; *D. pyrenaica* is also recorded from Kamchatka Peninsula.  
**Copy seen:** DA; MH-Z.

**PEVZNER, V. I.**, see Il'in, B. S., & V. I. Pevzner. Novye svedeniâ o vidakh treski. 1939. No. 22790.

**25071. PÉWÉ, TROY LEWIS, 1918-** . Origin of the upland silt in the Fairbanks area, Alaska. (Geological Society of America. Bulletin, Dec. 1950. v. 61, p. 1403)

Abstract of a paper read before the November 1950 meeting of the Geological Society of America giving discussion of evidence for the eolian origin of the "well-sorted tan silt" near Fairbanks "on the north side of the Tanana River Valley."  
**Copy seen:** DGS.

**25072. PÉWÉ, TROY LEWIS, 1918-** . Permafrost and geomorphology in the lower Yukon valley, Alaska. (Geological Society of America. Bulletin, Dec. 1947. v. 58, no. 12, pt. 2: 1256)

"The Yukon flood plain near Galena, Alaska, has four geomorphic phases, and each phase has distinctive permafrost characteristics. The term phase refers to the temporary appearances of the surface features produced by a meander during the planation of the valley. The characteristics of the 4 phases are as follows: (phase 1) youthful drainage pattern, large deciduous trees, and low permafrost table; (phase 2) youthful drainage pattern, large coniferous trees and slightly higher permafrost level; (phase 3) mature drainage pattern, small coniferous trees and tundra, and a high permafrost table; (phase 4) old-age drainage pattern, much tundra, and a high permafrost table. The river, moving from side to side in the valley, acts as a thawing agent and lowers the permafrost table. When the river

meander advances, the permafrost rises into the newly deposited sediments. The rise of the permafrost over the years causes the change in vegetation." (Author's abstract).  
**Copy seen:** DLC.

**25073. PÉWÉ, TROY LEWIS, 1918-** . Preliminary report of permafrost investigations in the Dunbar area, Alaska. Washington, D. C., Feb. 1948. 3 p. incl. map, diagr. (U. S. Geological Survey. Circular 42)

"The Dunbar area is a 20 mi. strip along the Alaska Railroad from Standard to Berg, withdrawn by the government for agricultural settlement. The altitude of the hills ranges from 1200 to 2000 ft. and the altitude of the lowlands averages 400 ft. The drainage is poor in the depositional slope which consist of the lower parts of the hills and the valleys. The depth to permafrost in this slope is 12-24 in. Large ice masses in the soil make construction difficult. Ground water for water supplies is not available at shallow wells. Water is available under the permafrost which often exceeds a depth of 150 ft. The hills are well drained and free of permafrost. It is suggested that the hills were more suitable for construction and for agriculture. Water supplies are still a problem because wells must continue down to bedrock for water."—SIPRE.

This paper was previously listed in Arctic Bibliography, No. 13483.

**Copy seen:** DGS.

**25074. PÉWÉ, TROY LEWIS, 1918-** . Recent history of Black Rapids Glacier, Alaska. (Geological Society of America. Bulletin, Dec. 1951. v. 62, p. 1558)

Abstract of paper presented at meeting of sect. E, American Association for Advancement of Science, Philadelphia, Dec. 27-28, 1951. Notes several advances in recent years of this glacier, 63°31' N. 145°53' W.

**Copy seen:** DGS.

**25075. PÉWÉ, TROY LEWIS, 1918-** . Relationship of permafrost to agriculture in the Fairbanks area, Alaska. (Geological Society of America. Bulletin, Dec. 1950. v. 61, p. 1571)

Abstract of a paper read before the November 1950 meeting of the Geological Society of America, giving description of permafrost effects in (1) zone underlain by sand and gravel, where no mounds or pits form after clearing, and (2) zone underlain mostly by silt where

mounds and thermokarst pits render the acreage unfit for cultivation two or three years after clearing. **Copy seen:** DGS.

**25076. PÉWÉ, TROY LEWIS, 1918-** Terrain and permafrost of the Fairbanks area, Alaska. (Geological Society of America. Bulletin, Dec. 1948. v. 59, no. 12, pt. 2, p. 1379) Abstract of a paper read before the April 1948 meeting of the Geological Society of America.

"The Fairbanks area, located on the north side of the Tanana Valley adjacent to the Yukon-Tanana plateau, is divided into three geomorphic units: (1) the flood plain, (2) the hills, and (3) the depositional slope, between the hills and the flood plain. Each unit has distinctive lithology and permafrost conditions." Author describes terrain, permafrost conditions of each unit, noting its agricultural possibilities. **Copy seen:** DLC.

**25077. PFALZNER, P. M.** On the friction of various synthetic and natural rubbers on ice. (Canadian journal of research, Section F, Dec. 1950. v. 28, no. 12, p. 468-89, diagrs., tables)

Contains a study on the frictional properties of rubber tire compounds on ice, under controlled conditions, with the aim of ascertaining the factors influencing these properties. The dynamic and static friction on ice, the hardness and resilience of natural and synthetic rubber tire compounds were measured; in general, friction is increased as temperatures are lowered and that the coefficient of friction between ice and rubber depends on the nature and hardness of the rubber.

**Copy seen:** DLC.

**25078. PFIZENMAYER, EUGEN WILHELM.** Beitrag zur Morphologie von *Elephas primigenius*, Blumenb. und Erklärung meines Reconstructions-Versuches. (Vserossitskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1905. Ser. 2, chast' 43, vyp. 2, p. 521-42, illus., plate 7) **Title tr.:** A contribution to the morphology of the mammoth, *Elephas primigenius* Blumenb. with an explanation of my attempt at the restoration.

Contains the results of the author's attempt at a restoration of the northern woolly mammoth, based on study of the skeleton in the Zoological Museum of the Academy of Sciences, which had been found in the lower Lena River region in 1806, and on investigation of the remains brought home from the Berezovka River, by O. F. Gerfs and the author in 1901.

Also on specimens of tusks and other parts of the body found or bought by the author during his Siberian travels. A colored sketch of author's idea of this extinct animal is given on plate 7.

**Copy seen:** MH-Z.

**25079. PFIZENMAYER, EUGEN WILHELM.** Les mammouths de Sibirie. La découverte de cadavres de mammouths préhistoriques sur les bords de la Berezovka et de la Sanga-Iourakh. Avant-propos et traduction du George Montandon. Paris, Payot, 1939. 313 p., illus., plates, map. **Title tr.:** The mammoths of Siberia. The uncovering of carcasses of prehistoric mammoths on the banks of the Berezovka and the Sanga-Yuryakh. Translated with introduction by George Montandon.

Contains a translation of the original German *Mammulleichen und Urwaldmenschen in Nordost Siberien*, 1926, q. v. Many illustrations and bibliography are omitted. **Copy seen:** DLC.

**25080. PFIZENMAYER, EUGEN WILHELM.** Mammulleichen und Urwaldmenschen in Nordost Siberien. Leipzig, Brockhaus, 1926. 341 p. illus. plates, maps. **Title tr.:** Mammoth carcasses and primitive men in northeastern Siberia.

Contains an account of a three-man expedition under O. F. Gerfs in 1901 to the Berezovka River, right tributary of the Kolyma (66°30' N. 157°20' E.) and the party's work there exhuming a mammoth cadaver; also a shorter account (p. 146-239) of the author's second trip, in 1908, with K. A. Vollosovich as geologist, to the Sanga-Yuryakh River (72°18' N. 144°25' E.) and their exhumation of another mammoth, both expeditions for the Russian Academy of Sciences. Itineraries are given (in 1901 from Irkutsk down the Lena and Yana to Verkhoyansk, thence eastward overland to Sredne-Kolymsk; in 1908 down the Lena and Yana to Ust-Yansk returning by Bulun up the Lena to Irkutsk); description of the country traversed; its nature, climate, main flora and fauna; people (Yakuts, Tungus), their life and habits; occupations, housing, dress, etc. Detailed accounts are given of the carcasses exhumed; their location; posture; missing or well-preserved parts; detailed description of the non-decomposed parts (hair; skin; muscle; food remnants, etc.), dismemberment, transport and assembling of the carcasses; etc. A description of

the assembled animals and some of their contemporaries (especially extinct forms) is also given. Bibliography (over 40 items). 118 photographic illus. and sketches in text depict terrain and native life as well as mammoth remains, sites etc. Fold. map shows sites of 21 other finds of mammoth and rhinoceros remains in Siberia and islands 1707-1910, outlined in the introductory chapter.

**Copy seen:** DLC.

**25081. PFIZENMAYER, EUGEN WILHELM.** Siberian man and mammoth. Translated from German by Muriel D. Simpson. London and Glasgow, Blackie & Son Ltd., [1939]. 256 p., illus., plates, maps.

Contains a translation of *Mammul-leichen und Urwaldmenschen in Nordost Siberien*, 1926, q. v. Two appendices (p. 241-50) not present in the original, have been added: *Mammoth of Great Lyakhov Islands*, based on report of K. A. Vollosovich; and the *Elks of northeast Siberia*; but the bibliography and many of the illustrations are omitted.

**Copy seen:** DLC.

**PHALEN, J. S.,** see Kottke, F. J., & others. Effect hypoxia temp. reg. mice dog & man. 1948. No. 23417.

**25082. PHILLIPS, MARY BERNADETTE.** Sister. The role of rivers, portages, and furs in the expansion of Russia. Washington, 1947. 74 p. (typewritten copy), maps. M. A. thesis, Georgetown University.

Contains a history (based on English language sources) of the development of Russia, till about the end of the 19th century, by the aid of trade over the inland waters and portages. Such northern regions as the Ob'-Irtysk basin and the Yenisey, and such northern interests as fur production and trade figure largely in the account. Bibliography (26 items).

**Copy seen:** DLC.

**25083. PHILLIPS, REYNOLDS.** Polar commuters. (Boeing magazine, Dec. 1950. v. 20, no. 12, p. 10-13, illus.)

"Chart shows various weather reconnaissance tracks flown in and around Alaska and to the North Pole. Article describes problems of flying over Arctic Ocean."—*Meteorological abstracts and bibliography*, Oct. 1951. v. 2, no. 10, p. 796.

**Copy seen:** DWB.

**25084. PHLEGER, FRED B., 1909-** Foraminifera distribution in some sedi-

ment samples from the Canadian and Greenland Arctic. [La Jolla, Calif.] 1951. 2 p. 1., 17 numb L., 2 plates, map, table. (California. University. Scripps Institution of Oceanography. Submarine geology report no. 18) Results of research carried out for the U. S. Navy Office of Naval Research under Project no. NR 081,050.

Contains notes on the occurrence, frequency, and zonation of planktonic and benthonic foraminifers in bottom samples taken in waters from Baffin Bay northward to Kennedy Channel and along the southern Canadian Arctic Islands.

**Copy seen:** DGS.

**25085. PHLEGER, FRED B., 1909-** Foraminifera distribution in some sediment samples from the Canadian and Greenland Arctic. (Cushman Foundation for Foraminiferal Research. Contributions, 1952. v. 3, pt. 2, p. 80-89, illus.)

Contains an analysis of foraminifera populations in 49 bottom sediment samples between 70°-80° N. 59°-112° W. which show the predominance of benthonic species, an indication of depth zonation in Baffin Bay, Lancaster Sound, and Melville Sound and of mixing of faunas due to ice rafting, and which demonstrates that regional faunas are distinguishable.

**Copy seen:** DGS.

**25086. PICHOTKA, JOSEF, and R. B. LEWIS.** Prevention of secondary infection due to *Pseudomonas aeruginosa* in frostbitten tissue. (Society for Experimental Biology and Medicine. Proceedings, Oct. 1949. v. 72, p. 127-30, 3 tables)

Contains an account of experiments on the effectiveness of penicillin and sulfamylon in rabbits. In 78 animals with experimental frostbite treated locally with penicillin ointment, 30 cases of infection occurred, while 212 similar animals treated with three per cent sulfamylon ointment showed only four cases of infection.

**Copy seen:** DLC.

**25087. PICHOTKA, JOSEF, and R. B. LEWIS.** Use of heparin in treatment of experimental frostbite. (Society for Experimental Biology and Medicine. Proceedings, Oct. 1949. v. 72, p. 130-36, 5 tables)

Contains a study on male rabbits with experimentally produced frostbite of one hind leg. The excellent results reported

by Lange and co-workers on the use of heparin in frostbite were not reproducible and the therapy and regime recommended by him produced results not different from those in untreated animals. (Bibliography 11 items).

**Copy seen:** DLC.

**PIDERMAN, GUIDO**, see Roch, A., & G. Piderman. Quer durchs "Schweizerland". 1941. No. 25602.

**25088. PEKARSKII, È. K., and V. P. TSVETKOV.** Ocherki byta priafanskikh tungusov. S. Peterburg, 1913. 128 p., 4 maps. (Akademiia nauk. Muzel po antropologii i étnografii. Sbornik, t. 2, vyp. 1) **Title tr.:** Outlines of the mode of life of the Tungus near the port of Ayan.

Contains historical sketch of the region; economic activities of the Tungus; transportation of tea through the port of Ayan, reindeer-breeding, fishing in the rivers and sea, hunting, dog-breeding, household work, and casual labor; material aspects of their life, and summary of the economy as a whole; Tungus nomadism; comparison of the local population of which 245 are Tungus; their family life, beliefs and customs, social organization and paying of taxes. These materials were collected largely by the senior author during 1903-05 while on an expedition organized by the Yakut district administration and directed by the engineer V. E. Popov. Its purpose was to find a route between the village Nel'kan on the Maya River and port of Ayan; and in the process Pekarski collected extensive data on the economic situation of the Tungus, also assembled about 400 museum objects. After his departure, this work was continued by V. P. Tsvetkov who prepared the material for publication. Parts of it were published previously in *Zhivaiia starina* (1911, vyp. 2-4), and *Sibirskie voprosy* (1911, no. 9-10).

**Copy seen:** DSI-M.

**PIÉRY, Y.**, see Cordier, D., & Y. Piéry. Influence froid sur vitesse d. transit gastrique. 1950. No. 21293.

**PIGULEVSKII, G. V.**, see Il'in, M. M., & G. V. Pigulevskii. Poleznye rasteniia SSSR. 1951. No. 22791.

**25089. PIHLAINEN, JOHN A.** Building foundations for permafrost Mackenzie valley, N. W. T. Ottawa, June

1951. 37 p., illus. (National Research Council. Division of Building Research. Technical report, no. 8, D. B. R. no. 22)

A joint contribution from the Directorate of Engineer Development, Canadian Army and the Division of Building Research. Report from a four-man party summer 1950 expedition.

"Two hundred fifty permanent buildings were investigated. Two general methods of foundation construction are used in permafrost regions. Procedures involving the removal or the continual thawing of the permafrost is called the active method. Construction techniques in which the permafrost is undisturbed and maintained by insulation is called the passive method. Surface foundations were found unsatisfactory. Pile driving, concrete pad footings, and concrete wall footings constitute satisfactory buried foundations when constructed on suitable sites."—SIPRE. **Copy seen:** CAMAI.

**25090. PIKALEV, A. IÂ.** Torf, tsennoe organicheskoe udobrenie. (Kormovaiia baza. Jan. 1952. v. 3, no. 1, p. 17-21, illus., table) **Title tr.:** Peat, a valuable organic manure.

Contains an account, based on experiments and field observations, on the value of peat as fertilizer, especially for non-black soils. Combinations of peat with manure, fertilizer, green manure, or various composts were tried, and their composition or ways of preparation are given. Results from numerous forms indicate substantial increases in a great variety of crops (potatoes, cereals, grasses, etc.) and a long-lasting soil improvement after peat application.

**Copy seen:** DLC.

**25091. PILDER, HANS, 1885-** Die Russisch-amerikanische Handels-Kompanie bis 1825. Berlin und Leipzig, G. J. Göschen, 1914. 4 p. l., 174 p. (Added t.-p.: Osteruopäische Forschungen . . . Heft 3) Appeared in part as the author's inaugural dissertation, Berlin 1909 (35 p.) **Title tr.:** The Russian-American Trade Company until 1825.

Historical study of the beginnings of Russian trade in Alaska: foundation by Shelikov and the brothers Golikov of the American Company in 1781, with headquarters on Kodiak Island; its reorganization as the Russian American Company in 1798, with data on financial and administrative basis of the company; the building, destruction and reoccupation of Sitka (Baranof Island), transfer

of the company's headquarters thither; the company's round-the-world expedition under Kruzenshtern, 1803-05; Baranov's administration, establishment of the Fort Ross colony (in California); discussion of fur trading activities with some statistical data; relations with Spaniards, English and Americans. Ukase of Sept. 4, 1921 excluding navigators from Bering Sea and Fort Ross area, and subsequent agreements with U. S. in 1824, and Great Britain in 1825 defining territorial limits, etc.

*Appendices 1-14* (p. 117-71) give statistical data on peltry returns 1798-1822; population data; text of the company's "privilege" (rights and duties) 1821, convention of 1825, memoranda of company employees, etc. Bibliographical footnotes throughout.

*Copy seen:* DLC.

**PILLION, M. ELIZABETH**, *see* Bader, M. E., & J. Mead. Individual differences vascular responses to cold. 1950, No. 20394.

**25092. PILSTRÖM, INGMAR.** *Chamaedaphne calyculata* (L.) Moench., *Dianthus superbus* L. och *Euphoria esula* L. funna i Lappland. (Botaniska notiser, 1952, häft. 2, p. 225-26) *Title tr.:* *Chamaedaphne calyculata* (L.) Moench., *Dianthus superbus* (L.) and *Euphoria esula* L. found in Lapland.

*Contains* records of the author's finds of these three flowering plants, in Gallivare parish, Swedish Lapland, new to the flora of that region.

*Copy seen:* MH-A.

**25093. PILSUDSKI, BRONISLAW.** Schwangerschaft, Entbindung und Fehlgeburt bei den Bewohnern der Insel Sachalin (Gilyaks und Ainu). (Anthropos, Ephemeris, 1910. Bd. 5, p. 756-74) *Title tr.:* Pregnancy, delivery and miscarriage among the inhabitants of the Island of Sakhalin (Gilyaks and Ainu).

*Contains* account of the Gilyaks and their houses of delivery, parturition and miscarriage, behavior of the husband at this time; birth of twins; general remarks. The second part of the article deals with similar customs among the Ainu.

*Copy seen:* DLC; InU.

**25094. PINART, ALPHONSE LOUIS, 1852-1911.** Notes sur les Koloehi. (Société d'anthropologie de Paris. Bulletins, 1872. ser. 2, t. 7, p. 788-810) *Title tr.:* Notes on the Koloehi.

*Contains* account of the author's experiences during his sojourn among the Tingit (called by the Russians Koloehi) and Haida Indians of Yakutat Bay, Chichagof, Baranof, Prince of Wales and Queen Charlotte Islands, numbering about 6,500 persons. Their names, racial appearance, physical endurance, and self-chastisement; their tribal organization (two totemistic groups of tribes, the group of raven, and the group of wolf with smaller subdivisions); the legends of origin about their cultural heroes Jéll and Kxanouk; religion and beliefs regarding spirits (*iéki*) and rebirth of the soul, the shamans and shamanistic practices.

*Copy seen:* DLC.

**25095. PINEGIN, NIKOLĀI VASIL'EVICH, 1883-1940.** Zapiski polárníka. Arkhangel'sk, Sevkrainiz, 1936. 328 p., illus., ports. *Title tr.:* Notes of a polar worker.

*Memoirs* and notes on the author's travels and activities in the Russian North: his trip as student to Arkhangel'sk, (1904); trip to Kola Peninsula coast on the *Nikolaï* (1909); to Novaya Zemlya on the *Sv. Ol'ga*; his participation in G. Sedov's expedition on the *Sv. Foka* (1912-1914), flights over Novaya Zemlya with Chukhnovskii (1924); expedition to Yakut A.S.S.R., and to New Siberian Islands, establishing polar station on Bol'shoy Lyakhovskiy Island (1927-1928); two trips to Franz Josef Land and organization of polar station on Rudolf Island (1931-1932). Routes, mode and conditions of travel, wildlife, etc. are described. Many outstanding Russian polar explorers are characterized. Changes in conditions of Russian Arctic exploration 1910-32, especially on Franz Joseph Land are stressed. The part on Sedov's expedition repeats, partly verbatim, author's *V lediánykh, prostrakh*, 1924 (*Arctic Bibliography*, No. 13555).

*Copy seen:* DLC

**25096. PINKHENSON, D. M.** Istoriicheskie étapý zavoevaniâ Severnogo morskogo puti. (Vsesoûznoe geograficheskoe obshchestvo. Izvestiâ, 1950. t. 82, no. 4, p. 396-411) *Title tr.:* Historical stages in the conquest of the Northern Sea Route.

An analysis of the successive phases in achieving successful navigation of the Northeast Passage, against the socioeconomic background. The author distinguishes and describes 3 stages: (1) the medieval-feudal, i. e. 16th to mid-nine-

teenth centuries; (2) the period of advanced technology and science and capitalist economy; and (3) the period of socialism, beginning with the Soviet revolution. **Copy seen:** DLC.

**25097. PINKHENSON, D. M.** Neopublikovannyi proekt russkoi ékspeditsii k severnomu polúsu. (Vsesoiúznoe geograficheskoe obshchestvo. Izvestiia, Mart-Aprel' 1951. t. 83, vyp. 2, p. 193-96) **Title tr.:** An unpublished plan for a Russian expedition to the North Pole.

**Contains** description of a plan drawn up in 1847 by P. I. Kruzenshtern and found in the Central Government Archives of the Navy at Leningrad: analysis of reasons for previous failures to reach the North Pole; notes (in general) on the route from Arkhangel'sk, type of boat, equipment, personnel, duration of expedition, aims and budget. Opinions of contemporary and some later authorities also in the file are noted by Pinkhenson. **Copy seen:** DLC.

**25098. PINKS, ROBERT R.** A preliminary investigation of psychological requirements for arctic duty. (American psychologists, 1950. v. 5, p. 363)

**Contains** an abstract of a study consisting of a number of experimental psychological tests and questionnaires given to a sample of 110 airmen before their transfer to arctic stations, with a detailed follow-up during their arctic duty. Very slight evidence of progressive psychological deterioration with continued duty, was found; cases of extreme success or failure could not be readily identified by statistical analysis of the data, suggesting the advisability of individual-clinical approach in studying these cases. **Copy seen:** DLC.

**25099. PIONTKOVSKIĬ, I. A.** Fizioterapiia otmorozhenii. (Sovetskaiia meditsina, 1943. god 7, no. 1, p. 9-11) **Title tr.:** Physiotherapy of frostbite.

**Contains** an introductory section on frostbite therapy in general and detailed accounts on physiotherapy in the pre-reactive and reactive stages of first- to fourth-degree frostbite. Theoretical and practical aspects, dosage, etc. are discussed and evaluated. The relation of physiotherapy to other methods and its value in treating frostbite sequelae are also discussed. **Copy seen:** DLC.

**PIPPING, MARTA HELENA ALINE,** see REUTER, MÁRTA, 1902-

**25100. PIROZHNIKOV, P. L.** Dannye po biologii aziatskoi korúshki. (Akademiiá nauk SSSR. Doklady, 1950. Novaia seriia. t. 74, no. 5, p. 1037-40, illus.) **Title tr.:** Data on the biology of Asiatic smelts.

**Contains** data on age, growth, weight and food of *Osmerus eperlanus dentex*, a smelt found in quantity in the estuary of the Lena River in northeastern Siberia, and comparison with data on the same species in other northern regions of European and Asiatic Russia.

**Copy seen:** DLC; MH-Z.

**25101. PIROZHNIKOV, P. L.** Gidrometeorologicheskie nablúdeniia Sibirskoi Ikhtiologicheskoi Laboratorii v Turukhanskom Krae 1921-1923 gg. (Krasnoyarsk, U.S.S.R. Vostochno-Sibirskaiia nauchnaia rybokhoziaistvennaia stanitsiia. Trudy, 1924, t. 2, vyp. 1, p. 111-28, illus., tables) **Title tr.:** Hydrometeorological observations of the Siberian Ichthyological Laboratory in the Turukhan region during 1921-1923.

**Contains** monthly temperatures from a series of water features, particularly in the Yenisey and Nizhnyaya Tunguska River systems. These data are analyzed, together with corresponding air temperatures. Some data on winds are included.

**Copy seen:** DLC.

**25102. PIROZHNIKOV, P. L.** Morskii i baltalskie élementy v faune r. Eniseia. (Moskovskoe obshchestvo ispytatelei prirody. Búlliten', 1937. Otdel. biol. Novaia seriia. t. 46, vyp. 3, p. 165-72) **Title tr.:** Elements of the sea and of Lake Baykal in the Yenisey River fauna.

**Contains** a study of the marine elements, represented by eight forms, and Lake Baykal forms (18 species) in the invertebrate fauna of Yenisey River; the extension race, the origin and age of these elements are discussed; bibliography (29 items). Summary in English.

**Copy seen:** DLC; MH-Z.

**25103. PIROZHNIKOV, P. L.** Zametka o gidrofaune nekotorykh punktov basseiná r. Eniseia. (Gidrobiologicheskii zhurnal SSSR, 1928. t. 7, no. 5-7, p. 157-58) **Title tr.:** A note on hydrofauna of some localities in the Yenisey River basin.

**Contains** lists of plankton species from various places in the Yenisey basin, including some catches from the Yenisey estuary, from Yenisey Bay and from

some lakes on the islands in the bay; includes some crustaceans and rotifers.

**Copy seen:** MH-F.

**25104. PISKUNOV, E. I.** Iz praktiki raboty zveroferm Kralnogo Severa. (Karakulevodstvo i zverovodstvo, Jan.-Feb. 1952, god 5, no. 1, p. 76-77, tables) **Title tr.:** Some conclusions from the work of animal farms in the Far North.

**Contains** a note on the low reproduction rate of young silver-black foxes, particularly following long transportation; a balanced proper diet, which counteracts the bad effects, is recommended.

**Copy seen:** DLC.

**25105. PISSARZHEVSKIĬ, V.** Aufzählung der bisher in Russland aufgefundenen Flechten nach den bis zum Jahre 1897 in Druck erschienenen Angaben. (Moskovskoe obshchestvo ispytatelei prirody. Bulletin', 1897, pub. 1898. Novaya seriya. t. 11, p. 368-420) **Title tr.:** An enumeration of the lichens of Russia, based on the works published before 1897.

**Contains** a bibliography for foreign and Russian lichenological works (71 items) and a systematic list of 454 species of lichens growing in Russia with brief data on distribution; includes some species native to northern regions of Finland and Russia.

**Copy seen:** DLC; MH-A.

**25106. PITCHER, P. N., and G. S. DUNDAS.** Sinking the Giant Yellowknife "C" Shaft. (Western miner, July 1951, v. 24, no. 7, p. 35-41, illus., diags.)

**Detailed description** of surface plant, shaft design, shaft-sinking equipment and sinking operations, during 1949-50, at the Giant Yellowknife Gold Mines Ltd. property on the west side of Yellowknife Bay, Great Slave Lake, Mackenzie District.

**Copy seen:** DGS.

**25107. PITTONI, BRUNO.** Neue und wenig bekannte Hummeln der Paläarkt. (Hymenopt., Apidae). (Konowia, 1938, pub. 1939. Bd. 17, Heft 2-3, p. 244-63) **Title tr.:** New or little known humble bees of the Palaearctic.

**Contains** descriptions and critical notes on 13 palaearctic humble bees, including eight new species and varieties; *Bombus (Alpinobombus) alpiniformis* is described from specimens collected in Torneträsk, Swedish Lapland.

**Copy seen:** MH-Z.

**25108. PLATONOFF, STEPHAN, 1917-1944.** Beiträge zur Kenntnis der Käferfauna im südlichen Petsamo (Lps.). (Notulae entomologicae, 1942, v. 22, no.

1-2, p. 44-76, illus., text map) **Title tr.:** Contributions to the knowledge of beetle fauna in southern Petsamo (Laponia Petsamiensis).

**Contains** the results of the study of the systematics and ecology of the beetles in the Petsamo region of Finland, carried out by the author in the summer of 1939, with data on various ecological groups, lists of typical species, statistical data, etc. A list of about 350 species is given, with brief data on habitat, ecological groups and local distribution; bibliography (24 items).

**Copy seen:** DLC; MH-Z.

**25109. PLATONOFF, STEPHAN, 1917-1944.** Beobachtungen über windgetriebene Insekten in Petsamofjord an den finnischen Eismeerküste. (Notulae entomologicae, 1940, v. 20, no. 1, p. 10-13)

**Title tr.:** Observations on wind-driven insects in Petsamo Fjord region on Finnish coast of the Arctic Sea.

**Contains** the results of the observations on the fall of wind-driven insects, carried out by the author on the western coast of Petsamo Fjord on July 31, 1939, with a list of 65 species of coleopters and eight hemipters and data on the number of specimens.

**Copy seen:** DLC; MH-Z.

**25110. PLATONOFF, STEPHAN, 1917-1944.** Zur Kenntnis der Käferfauna um den See Paanajärvi in Kuusamo, Nordfinland. (Notulae entomologicae, 1943, v. 23, no. 3-4, p. 76-144, illus., text maps)

**Title tr.:** Contributions to the knowledge of Coleoptera fauna around the lake Paanajärvi, in Kuusamo, northern Finland.

**Contains** the results of zoogeographic and ecological study of coleopters of the region around Lake Paana (30 miles to the south of the Arctic Circle, near Kuusamo), with a general sketch of the region, data on fauna of various ecological zones, list of species typical for them and statistical data; bio-geographic character of the region, p. 108-119, a list of about 800 beetles occurring in the region explored, with localities and brief data on habitat; bibliography (61 items).

**Copy seen:** DLC; MH-Z.

**PLATONOV, STEPAN, see PLATONOFF, STEPHAN, 1917-1944.**

**25111. PLAVIL'SHCHIKOV, NIKOLAI NIKOLAEVICH.** Evrazijskie vidy roda *Evodinus* J. Lec. (Coleoptera, Cerambycidae). (Russkoe entomologicheskoe obo-

zrenie, 1915. t. 15, no. 3, p. 354-82, illus.) **Title tr.:** Eurasian species of the genus *Evodinus* J. Lec. (Coleoptera, Cerambycidae).

Contains a description of coleopterous genus *Evodinus*, a key to the species and characteristics and data on distribution of nine Eurasian species and many lower forms (one variety described as new) including *Evodinus* (s. str.) *interrogationis* occurring in Arkhangel'sk province and the lower Yenisey region; bibliographical references and lists of localities in the footnotes.

**Copy seen:** DSI-M; MH-Z.

**25112. PLECHEV, EVG.** O kamchat-skom sobole. (Priroda, 1939. god 28, no. 8, p. 73-75) **Title tr.:** On the Kamchatka sable.

Contains information on the areas inhabited by this species, its frequency, behavior, food, nests, enemies, fur, etc.; based on the author's work in 1933-34 with an industrial hunting station.

**Copy seen:** DLC.

**25113. PLEIJEL, CARL.** Skandinavien samkönade *Valeriana*-former. (Acta horti bergiani, 1925, pub. 1924. Bd. 8, no. 5, p. 71-87, illus.) **Title tr.:** Scandinavian androgynous forms of *Valeriana*.

Contains a critical revision of hermaphroditic forms of herbaceous genus *Valeriana* in Sweden, with Latin and Swedish diagnoses of four species (one new), some varieties and three hybrids, with synonymy and notes on origin and distribution; includes *V. excelsa*, native to northern Sweden and Norway (Varangerfjord) and *V. officinalis* f. *hirsuta* from Norrland, Sweden, and Sydvaranger, Norway. Summary in German.

**Copy seen:** DLC; MH-A.

**25114. \*PLESKE, FEDOR DMITRIE-VICH, 1858-1932.** Études sur les Stratiomyinae (Diptera) de la région paléarctique. (Notulae entomologicae, 1924. Arg. 4, häft. 1, p. 14-25; häft. 3, p. 65-73) **Title tr.:** Studies on Stratiomyinae (Diptera) of the palaearctic region.

Contains synoptic tables for the determination of palaearctic species of the dipterous genera *Alliocera*, *Oreomyia* and *Stratiomyia* (fam. Stratiomyinae), also critical notes (in French) and Latin diagnoses of more interesting or little known species, including *Stratiomyia*

\*Latterly known as Theodore Pleske.

(*Laternigera*) *furcata* from Kamchatka and S. (*Metastratiomyia*) *validicornis* validicornis from Arkhangel'sk province (Pechora River) and Kamchatka (Petro-pavlovsk). **Copy seen:** DLC; MH-Z.

**25115. PLESKE, FEDOR DMITRIE-VICH, 1858-1932.** Kriticheskiĭ obzor mlekopitaushchikh i ptits Kol'skogo poluoostrova. Sanktpeterburg, 1887. 536 p. (Akademiĭa nauk SSSR. Zapiski, t. 56, prilozhenie no. 1) **Title tr.:** Critical revision of mammals and birds of the Kola Peninsula. Also published in German: *Übersicht der Säugetiere und Vögel der Kola-Halbinsel*, 2 v., 1884-86 (see *Arctic Bibliography*, No. 13580).

Contains a physico-geographic sketch of the Kola Peninsula, including Finnish and Swedish Lapland explored by the author in the summer of 1880 during the expedition of the St. Petersburg Society of Naturalists, p. v-xix; a bibliography (278 items), an enumeration of 49 terrestrial and marine mammals from White and Barents Seas (p. 24-165); and a systematic list of 205 birds (p. 167-514) with synonymy, Latin, Russian, Finnish, Lappish and local names, biological and ecological notes and data on distribution in the region explored. Indexes of Latin and Russian names are appended.

**Copy seen:** MH-Z.

**25116. PLESKE, FEDOR DMITRIE-VICH, 1858-1932.** Revue critique des genres, espèces et sous-espèces paléarctiques des sous-familles des Stratiomyiinae et des Pachygastrinae (Diptères). Akademiĭa nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1922. t. 23, no. 3-4, p. 325-38) **Title tr.:** Critical revision of the palaearctic genera, species and subspecies of the sub-families Stratiomyiinae and Pachygastrinae.

Contains a critical revision of the genera, species and subspecies of dipterous sub-families Stratiomyiinae and Pachygastrinae with Latin diagnoses of several new taxonomic units and data on their distribution; includes some species from eastern Siberia, one from Yakutsk region.

**Copy seen:** DLC; MH-Z.

**25117. PLESKE, FEDOR DMITRIE-VICH, 1858-1932.** Revue des espèces paléarctiques de la famille des Cyrtidae. (Diptera) (Konowia, 1930. Bd. 5, Heft 2, p. 156-73) **Title tr.:** A review of palaearctic species of the family Cyrtidae (Diptera).

Contains synoptic tables of the sub-

families, genera and species of the dip-  
terous fam. *Cyrtidae*, synonyms, critical  
notes, data on geographic distribution and  
Latin diagnoses of seven new species;  
based on the study of specimens in the  
collection of Dipeta in the Zoological  
Museum of the Academy of Sciences of  
U.S.S.R. Includes *Oncodes jacutenses*  
n. sp. from Yakutia and *O. nigripes*  
native to Lapland.

**Copy seen:** MH-Z.

**25118. PLESKE, FEDOR DMITRIE-  
VICH, 1858-1932.** Revue des espèces  
paléarctiques, des Oestridae et catalogue  
raisonné de leur collection au Musée  
Zoologique de l'Académie des Sciences.  
(Akademii nauk SSSR. Zoologicheskii  
muzel. Ezhegodnik, 1925, pub. 1926.  
t. 26, vyp. 3-4, p. 215-30) **Title tr.:**  
Revision of palaearctic species of Oe-  
stridae and descriptive catalog of those  
in the Zoological Museum of the Academy  
of Sciences.

**Contains** a key to the genera of dip-  
terous fam. Oestridae and a critical  
revision of 38 palaearctic species of bot-  
flies (five new) from various regions in  
the collection of the Zoological Museum  
of the Academy of Sciences of U.S.S.R.,  
with Latin descriptions, synoptical tables  
and data on distribution; includes at  
least four species native to northern  
European Russia and Siberia.

**Copy seen:** DLC; MH-Z.

**25119. PLESKE, FEDOR DMITRIE-  
VICH, 1858-1932.** Supplément à mes  
travaux sur les Stratiomyidae, Erinidae,  
Coenomyidae et Oestridae paléarctiques  
(Diptera). (Konowia, 1928. Bd. 7,  
p. 65-87) **Title tr.:** A supplement to  
my papers on palearctic Stratiomyidae,  
Erinidae, Coenomyidae and Oestridae  
(Diptera).

**Contains** a systematic list of several  
dipters, with keys, critical notes, de-  
scriptions of seven new species and data  
on geographic distribution. Includes  
*Erinna* (*Archimyia*) (Yakutia), *E. ma-  
culata* (Koroviy Island in Okhotsk Sea)  
and *E. (Xylophagus) cinctus* (Pechora  
River region). This paper supplements  
some of the author's earlier papers,  
Pleske 1922, 1924 and 1926, q. v.

**Copy seen:** MH-Z.

**25120. PLESKE, FEDOR DMITRIE-  
VICH, 1858-1932.** Über einige der  
genaueren Definition bedürftige *Chrysops*-  
Arten aus dem palaearktischen Fau-  
nengebiete (Diptera, Tabanidae). (Aka-

demii nauk SSSR. Zoologicheskii  
muzel. Ezhegodnik, 1910. t. 15, no. 4,  
p. 436-56, plate 5) **Title tr.:** On some  
species of *Chrysops* of the palaearctic  
fauna requiring more exact determination.

**Contains** a critical revision of five  
species of dipterous genus *Chrysops*,  
often confounded with other related  
species; with Latin diagnoses, synonymy,  
extensive critical notes and data on  
habitat; includes *C. maurus* from the  
Muonio region and Kuusamo, northern  
Finland.

**Copy seen:** DLC; MH-Z.

**25121. PLESSO, G. I.** Sostofanie  
perifericheskoi innervatsii pri otmoroz-  
zhenii. (Nevropatologiya i psikhiatriya,  
Sept.-Oct. 1947. t. 16, no. 5, p. 56)  
**Title tr.:** State of peripheral innerva-  
tion in frostbite.

**Contains** a note on observations of 50  
cases of severe frostbite, mostly of the  
4th degree; some reflexes on the most  
injured sites were heightened or lowered,  
the tonus of some muscles lowered,  
suggestions of muscle and skin atrophy  
were in evidence. Author does not con-  
sider all this as symptoms of a simple  
neuritis but as signs of over-activation  
of the adreno-sympathetic system caused  
by the severe exposure to cold; he offers  
general therapeutic directives.

**Copy seen:** DLC.

**25122. PLIS, D. S.** O vnutrikho-  
zjalstvennom planirovanii v olenevod-  
cheskikh sovkhovakh. (Karelo-Murman-  
skii kraj, 1933. v. 11, no. 7-8, p. 62-65;  
no. 9-10, p. 65-68, illus.) **Title tr.:**  
On intra-economical planning in reindeer-  
breeding state farms.

**Contains** (in the first part) data on the  
number of reindeer on the state-operated  
farms (sovkhov) and the amount of  
meat produced by them. On the basis of  
available pastures, especially in Kola  
Peninsula, the author outlines a plan for  
more specialized and intensive reindeer  
farming involving not only a utilization  
of meat but also of the hides and by-  
products. In the second section of the  
article this plan is presented in detail  
and related to the data on growth and  
reproduction rate of the animals and to  
proper organization and rationalization  
of pastures.

**Copy seen:** DLC.

**25123. PLOTKIN, F. M.** Lechenie  
otmorozhenii. (In: Nesterov, A. I., and  
I. G. Rufanov. Osnovy kompleksnogo  
lecheniia v gospiitalakh. Moskva, 1946.

p. 210-17) **Title tr.:** Treatment of frostbite.

Contains a general article, dealing with: the four degrees of frostbite; their pathological physiology and anatomy; clinical aspects; therapy at different stages of each degree; complications and sequelae.

**Copy seen:** DLC.

**25124. PLOTNIKOV, VASILII.** Glos-sosiphoniidae, Hirudinidae i Herpob-dellidae Zoologicheskogo muzeia Imperatorskoi Akademii nauk. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1905, pub. 1907. t. 10, no. 3-4, p. 133-58) **Title tr.:** Glos-sosiphoniidae, Hirudinidae and Herpob-dellidae of the Zoological Museum of the Imperial Academy of Sciences.

Contains a critical revision of 22 leeches of the three families of the order Hirudinea, with descriptions, synonymy, critical notes and lists of localities. Includes 6 species native to the Arkhangel'sk region, arctic Siberia and Sitka (i. e. Baranof) Island, Alaska (*Haemopsis sanguisuga*); bibliography (21 items).

**Copy seen:** DLC; MH-Z.

**25125. PLUMMER, HARRY CHAPIN.** Arctic sea trade expansion. Canada's third sea demands attention from cargo carriers. Power and speed will be paramount in special-design ships. (Canadian shipping, Dec. 1950. v. 22, no. 3, p. 38-41, illus.)

Sketch with photographic illustrations of several vessels recently assigned to navigation in Western arctic waters, the *C. D. Howe*, *Rupertsland*, *Calanus*, *Snow-bird II*, *Distributor* (on the Mackenzie River); with notes on navigation conditions and ship design.

**Copy seen:** CaMAI.

**25126. PLUMMER, HARRY CHAPIN.** Canada hunts minerals. (Popular mechanics, Nov. 1948. v. 90, no. 5, p. 156-59, 256, 258, illus.)

Sketch of aerial photography (vertical and tri-camera) geological survey, and prospecting, particularly for radio-active minerals. Use of magnetometer, gold-leaf electroscope, and other instruments is noted.

**Copy seen:** DLC.

**25127. PLUVINAGE, PHILLIPE, and G. TAYLOR.** Mesures du champ électrique de l'atmosphère au Groenland entre le niveau de la mer et le centre de l'inlandsis. (Annales de géophysique, Jan.-Mar. 1950. t. 6, no. 1, p. 69,

tables) **Title tr.:** Measurements of the atmospheric electric field in Greenland between sea level and the center of the icecap.

"The author presents the results of measurements of the electric field of the atmosphere in Greenland [made during the French polar expeditions under P. É. Victor] during the summers of 1948 and 1949. The atmospheric electricity increases from the coast to the icecap. In the case of the coastal station and the most inland station the values obtained during 1948 and 1949 were of the same order of magnitude, about 70 and 120 volts respectively; for the intermediate station the values differed considerably. The electric field over the icecap is characterized by marked daily variations. Negative potential values were observed in 1948 but not in 1949."—*Meteorological abstracts and bibliography*, Jan. 1951, v. 2, no. 1, p. 39-41.

**Copy seen:** DLC; MH-BH.

**25128. PLUVINAGE, PHILIPPE.** Sur la pollution de l'air au Groenland. (Annales de géophysique, 1950. t. 6, no. 1, p. 68, table) **Title tr.:** Air pollution in Greenland.

On the basis of his work in the course of the French Arctic Expedition of P. É. Victor 1948, on the west coast of Greenland and border of the icecap, "the author describes the application of the method of H. Dessens to an investigation of atmospheric pollution in Greenland. The types of impurities resemble those found in France, except that the proportion of dry particles is greater. The percentage of particles in the atmosphere of Greenland is among the lowest hitherto recorded."—*Meteorological abstracts and bibliography*, Jan. 1951. v. 2, no. 1, p. 15.

**Copy seen:** DLC; MH-BH.

**POBEDIMSKIĬ, A. D.,** see Gridnev, I. D., & A. D. Pobedimskiĭ. Propusk shugi cherez turbiny. 1952. No. 22214.

**25129. POD"ĬAPOL'SKAĬA, V. P., and others.** Rabota 265-I Soŭznoi gel'-mintologicheskoi ekspeditsii 1947 g. na reke Pechore (Komi ASSR). (Akademiia nauk SSSR. Gel'mintologicheskaiia laboratoriia. Trudy, 1951. t. 5, p. 232-35, illus. tables) **Other authors:** A. A. Spasskiĭ and K. M. Ryzhikov. **Title tr.:** The work of the 265th Soviet Helminthological Expedition of 1947 on the Pechora River (Komi A.S.S.R.).

Contains reports of the two sections of

the expedition, the medical section which studied human helminths, and the biological section which was concerned with helminths of game and industrial animals; the area studied extended to 950 km. on both shores of the river from the Troitsko-Pechorsk (62°42' N. 56°12' E.) down to Ust'-Tsil'ma (65°25' N. 52°16' E.). Organization and personnel of the expedition is given, the work of the medical section in various districts outlined, with analysis of the helminthofauna of the population (indigenous and newcomers, adults and children); the work of the biological section is described, the parasites of fishes, amphibians, reptiles, and (especially) birds are analyzed and tabulated. **Copy seen:** MH.

**PÖNTYNEN, V.**, see Osara, N. A., & others. Suomen puun käyttö. 1948. No. 24874.

**25130. POHJAKALLIO, ONNI.** Lapin yhtemmittaisen kesäpäivän vaikutuksesta kevätviljan kehityksen nopeuteen. (Pellervo, 1951. v. 51, no. 22, p. 686-88, illus., tables) **Title tr.:** The effect of the continuous daylight in summer on the rate of the spring crop's development in Finnish Lapland.

Describes the effect of the sunshine, during the continuous daylight of the summer season on several types of agricultural plants in northern Finland. The observations were made chiefly at Viiki, Muddusniemi and Inari. Includes data on the number of hours of sunshine, temperature effects and cloudiness. Refers to work by Harold Luneland, "Maaseudun Tulevaisuudessa". **Copy seen:** DA.

**POHL, FREDERICK J.**, see Cook, F. A. Return from Pole. 1951. No. 21287.

**POKORNY, JULIUS, 1887-**, see Koppers, W. Eskimoisch-mongolisches. 1917-18. No. 23382.

**25131. POKROVSKAÏA, T. N.** K biologii ledovitomorskoi rogakki. (Akademii nauk SSSR. Institut okeanologii. Trudy 1951. t. 6, p. 132-49, illus., tables, diags.) **Title tr.:** On the biology of the arctic sculpin.

Contains results of a study carried out in 1944-46 on the Pechora (Barents) and Kara seacoasts, on the fish *Myoxocephalus Quadricornis labradoricus* (Girard). Its economic insignificance is noted; systematic analyses and position are given; the reproduction, growth, age composition

and size composition of the species are shown and its food indicated. Bibliography (15 items). **Copy seen:** DLC.

**POKROVSKII, SERGEÏ VIKTOROVICH, 1874-**, see Zhitkov, B. M., & S. V. Pokrovskii. Tundry. Severo-liesnaia oblast. 1917. No. 27597.

**POKSHISHEVSKII, VADIM VIACHESLAVOVICH**, see Garf, A. L., & V. V. Pokshishevskii. 1948. No. 22019.

**25132. POLAR RECORD.** Archiv für Polarforschung, Kiel. (Polar record, July 1952. v. 6, no. 44, p. 543-44)

Contains a note on the founding of the Archiv, by Max Grotewahl in 1926; its aims; library; participation in the Second Polar Year; fate during World War II and its 25th anniversary celebration.

**Copy seen:** CaMAI; DLC.

**25133. POLAR RECORD.** The Arctic Council of 1851. (Polar record, Jan. 1952. v. 6, no. 43, p. 385-91, plate, diag.)

Contains reproduction of engraving after painting by Stephen Pearce, of the group of prominent "Articists" appointed by British Admiralty to supervise plans for Franklin search expeditions. A key to the engraving by W. R. O'Bourne is reprinted together with biographical notes on the ten council members depicted. **Copy seen:** DLC.

**25134. POLAR RECORD.** Biological work in Keewatin and northern Manitoba. (Polar record, July 1950. v. 5, no. 40, p. 601-602)

Contains note on the trip to the Nuel-tin Lake region by Francis Harper (May-Dec. 1947) and Farley M. Mowat (May-Aug.). Mowat's itinerary and work (faunal survey and collection along the Windy River) are indicated. Sketch maps, numerous photographs and comprehensive collections were made.

**Copy seen:** DLC.

**25135. POLAR RECORD.** British West Greenland expedition, 1950. (Polar record, July 1951. v. 6, no. 42, p. 263-64)

Contains a note and brief itinerary of this summer expedition headed by H. I. Drever. Glaciological studies of the Johannes-Brae and Rinks-Isbrae at the head of Karrats-Fjord (71°30' N. 53° W.) were carried out by one part of the group, while the other made a geological survey of the coast between 70°35' and 72°18' N. **Copy seen:** DLC.

**25136. POLAR RECORD.** Canadian Department of Mines and Resources exploring expedition to Foxe Basin, 1949. (Polar record, July 1951. v. 6, no. 42, p. 256-57, illus., map)

*Contains* a note on a seven-man expedition, leader T. H. Manning, to fix positions of the recently discovered (or re-discovered) islands: Prince Charles, Air Force and Foley in eastern Foxe Basin and to study the geography, geology, zoology and botany of these islands. *Nauja*, a new Peterhead boat used, is noted and illustrated.

*Copy seen:* DLC.

**25137. POLAR RECORD.** Caribou investigations in the Canadian Arctic. (Polar record, July 1951. v. 6, no. 42, p. 253-55)

Summary of work begun in 1948 by Canadian Wildlife Service as part of a program to develop a policy for management of Barren Ground caribou, depletion of the herds having reduced a natural source of the native population's food, clothing and other necessities. Personnel and scope of the investigation (caribou range, population, food supply, reproduction, migrations, utilization, and predator relations) are indicated. Aerial reconnaissance and ground observations, Apr. 1948-Feb. 1949 in the region Hudson Bay-Mackenzie and Slave Rivers-arctic seas, also literature research are outlined.

*Copy seen:* DLC.

**25138. POLAR RECORD.** Cosmic ray investigations in the Canadian Arctic, 1949-1950. (Polar record, Jan. 1951. v. 6, no. 41, p. 102-103)

*Contains* note on an expedition to Churchill, led by M. A. Pomerantz and sponsored by the National Geographic Society and the Bartol Research Foundation of the Franklin Institute at Swarthmore, Pa. The object was to determine whether intensity of cosmic rays at high altitudes increases with geomagnetic latitude. Simultaneously John Galt of the Dominion observatory, commenced making magnetic and other observations at Resolute (74°41' N. 95°55' W.) which were to be continued through 1950.

*Copy seen:* DLC.

**25139. POLAR RECORD.** Danish expeditions to West Greenland, 1949. (Polar record, Jan. 1951. v. 6, no. 41, p. 103-104)

*Contains* brief notes on: two surveys in preparation for later mapping on Disko

on both sides of 66° N. lat. parallel, and between 69° N. and 76°30' N. lat.; expeditions of Grønlands Geologiske Undersøgelser i Vestgrønland and their geological surveys of Nugssuaq, an area northeast of it, the vicinity of Godthaab, Sukkertoppen and Egedesminde; expedition of Kryolitselskabet Oresund A/S for mapping of the cryolite mine at Ivigtut and doing magnetic and geological work in other areas; marking of cod and shark; ethnological, archeological and zoological research.

*Copy seen:* DLC.

**25140. POLAR RECORD.** Danish Pearyland expedition 1948-50. (Polar record, Jan. 1952. v. 6, no. 43, p. 377-78)

*Contains* a brief note on the expedition, leader and archeologist, Eigil Knuth; its transportation, work program, personnel of the second (1949-50) wintering party, etc. For reports on previous years (1947, 1948-49), see *Polar record*, 1949-50, v. 5, no. 35/36, p. 201-202; v. 5, no. 39, p. 458-59.

*Copy seen:* DLC.

**25141. POLAR RECORD.** Dansk Ekspeditionsfond. (Polar record, Jan. 1952. v. 6, no. 43, p. 395-96) *Title tr.:* Danish Expedition-Fund.

*Contains* information on the genesis of the Fund during World War II; its formal establishment in 1947; objects; governing board; means of obtaining funds; distribution of funds among different expeditions, etc.

*Copy seen:* DLC.

**25142. POLAR RECORD.** Dartmouth College expedition to Labrador, 1950. (Polar record, Jan. 1952. v. 6, no. 43, p. 376)

*Contains* a note on hydrographical and biological studies made in July-Aug. from the *Blue Dolphin* (David C. Nutt, captain and leader). Tidal observations, bottom samples and cores, and fishes were collected in the Hamilton Inlet-Lake Melville area. Similar studies were conducted in Seven Islands Bay (59°10' N. 64° W.)

*Copy seen:* DLC.

**25143. POLAR RECORD.** Dr. H. B. Collins' archaeological excavations at Frobisher Bay, Baffin Island, and at Resolute Bay, Cornwallis Islands, 1948 and 1949. (Polar record, July 1951. v. 6, no. 42, p. 255)

*Contains* a note on excavations (in 1948) of houses at the head of Frobisher Bay. The houses were built of stone, whale bones and turf and contained stone

implements of the Thule type. Cape Dorset type artifacts were found in adjacent middens at deeper levels. Resolute Bay excavations (in 1949) brought to light houses similarly built, containing, however, only objects of pure Thule type.

**Copoly seen:** DLC.

**25144. POLAR RECORD.** Dr. L. Koch's geological expedition to East Greenland, 1949. (Polar record, Jan. 1951. v. 6, no. 41, p. 104-105)

Contains a short report and itinerary of the summer expedition led by Lauge Koch; its main object was to study the lead-bearing quartz veins discovered in 1948 at Mesters Vig, southern Kong Oscars Fjord (72°22' N., 24° W.). 1800 photographs of the area were made from the air; numerous quartz-bearing veins nearly all containing lead, were discovered west of Mesters Vig; ice reconnaissance flights were made over the sea between Scoresby Sund and Danmarks Havn, etc.

**Copoly seen:** DLC.

**25145. POLAR RECORD.** Dr. L. Koch's geological expedition to East Greenland, 1950. (Polar record, Jan. 1952. v. 6, no. 43, p. 378-79)

Contains a short note and itinerary of the 120-man expedition by aircraft and boats. 24 members conducted mapping and tectonic and stratigraphic studies; 80 members led by Lester Thompson and Carl Koch continued investigations of the lead-bearing beds in Kong Oscars Fjord (72°22' N. 24° W.) with the aim of their exploitation. The expeditions are financed by the Danish Government.

**Copoly seen:** DLC.

**25146. POLAR RECORD.** Durham University expedition to Svartisen, Norway, 1950. (Polar record, Jan. 1952. v. 6, no. 43, p. 380-81)

Contains a brief note on this expedition which had as its object the mapping of Engendalen and Fondalen near Svartisen, an icecap (some 250 miles north of Trondhjem) known to have receded since the end of the 19th century. P. F. Taylor, glaciologist was leader. Meteorological data, plants and some 4000 insects were collected.

**Copoly seen:** DLC.

**25147. POLAR RECORD.** Eastern Arctic patrol vessel C. D. Houe. (Polar record, July 1951. v. 6, no. 42, p. 271-72)

Contains summary statement of the patrol vessels chartered by Canadian government since 1922 (the first patrol),

dimensions, equipment, function of this new (the first government-owned) ship.

**Copoly seen:** DLC.

**25148. POLAR RECORD.** Establishment of joint Canadian-United States meteorological stations in the Canadian Arctic, 1947-49. (Polar record, July 1950. v. 5, no. 40, p. 602-605, map)

"Expeditions by air and sea in 1947 and 1948 resulted in the establishment of the following stations in the Canadian Arctic: (1) Eureka, Ellesmere Island; (2) Resolute, Cornwallis Island; (3) Mould Bay, Prince Patrick Island, and (4) Isachsen, Isachsen Island. An automatic station was established at Dundas Harbour in 1947. An attempt in 1949 to establish a fifth station near Cape Sheridan failed. The author relates some of the interesting incidents of several expeditions."—*Meteorological abstracts and bibliography*, Apr. 1952. v. 3, p. 319.

**Copoly seen:** DLC; MH-BH.

**25149. POLAR RECORD.** Expedition of Norsk Polarinstittutt to Jan Mayen, Spitsbergen and North-East Greenland, 1950. (Polar record, July 1951. v. 6, no. 42, p. 265-67)

Contains notes on (1) the survey of Jan Mayen made in the summer of 1950 and tidal observations carried out for a period of one month; (2) the annual expedition to Spitsbergen, 1950, which serviced the lights and automatic wireless beacons; carried out hydrographic work; examination of the coal-seams and collection of fossils; and some other scientific studies; (3) expedition to supply Norwegian companies' hunting stations between Kong Oscars Fjord and Hochstetters Forland and the wireless station at Myggbukta.

**Copoly seen:** DLC.

**25150. POLAR RECORD** Expeditions of Norsk Polarinstittutt to Svalbard, 1948. (Polar record, Jan. 1950. v. 5, no. 39, p. 453)

Contains a note on the Institute's annual expedition to Svalbard June 25-Sept. 17, 1948, led by K. Z. Lundquist, on the *Minna*, and another expedition led by R. von Krogh on the *Nordkyn*, mentioning the personnel and the hydrographic, trigonometric, geologic, ornithologic and other work carried out.

**Copoly seen:** CaMAI; DLC.

**25151. POLAR RECORD.** Expeditions of Norsk Polarinstittutt to Svalbard, Jan Mayen and North-east Greenland, 1949.

(Polar record, July 1950. v. 5, no. 40, p. 610-12)

Contains a brief report on (1) the expedition to Svalbard (on the *Minna*) and its work in hydrography, geology and geological mapping; coal prospecting and paleontology; botanical and ornithological work; (2) survey work on Jan Mayen, including astronomical, geomagnetic and topographic determinations, and aerial photographs, covering the whole island; (3) the expedition to north-east Greenland (on the *Quest*) the aim of which was to relieve the staff of the radio station at Myggbukta and trappers at the hunting posts. **Copy seen:** DLC.

**25152. POLAR RECORD.** French expedition to Greenland, 1949-50. (Polar record, July 1951. v. 6, no. 42, p. 258-62, map)

Contains brief report and itinerary of a 36-man expedition, Paul-Émile Victor leader, landing in Atâ Sund, West Greenland, to establish an icecap station on or near site of Wegener's Eismitte of 1930-31 (70°54' N. 40°42' W.). Organization, transportation and supply (by ship, aircraft and weasel) are noted; preparation of depot camps, installation of the central station and an eight-man wintering party, headed by Robert Guillard. During the winter 1949-50 scientific work included four surface weather observations daily, radiosondes, etc.

**Copy seen:** DLC.

**25153. POLAR RECORD.** German sealing cruise to East Greenland, 1950. (Polar record, July 1951. v. 6, no. 42, p. 262)

Contains a brief note of a three-man party's trip on the motor-ship *Sachsen* (136 tons, length 23 m.), skipper and leader H. Kriete. 1250 seals and one polar bear were taken. Seal skulls, skins, skeletons and a numbers of birds were collected by the zoologist aboard.

**Copy seen:** DLC.

**25154. POLAR RECORD.** Hudson's Bay Company vessels for work in the Canadian Arctic. (Polar record, July 1951. v. 6, no. 42, p. 272)

Contains note *Rupert Island*, *Fort Hearne*, and *Fort Garry* replacing the *Nascopie* (wrecked in 1947), *Fort Ross* and *Fort Severn* (to be withdrawn from service).

**Copy seen:** DLC.

**25155. POLAR RECORD.** The ice-breaker *Yermak*. (Polar record, July 1951. v. 6, no. 42, p. 272-74)

Contains a review of the history of the Russian ice-breaker *Yermak* from the time of Makarov's conception of developing the ice-breaking tug into a larger more powerful ship for use in Kara Sea shipping; construction, test runs 1899-1901; into Baltic service 1905; Northern Sea Route since 1934. The later *Krasin* (1917) and *Stalin*-type (1938) ice-breakers are noted and the award of the Order of Lenin to the *Yermak* in celebration of her 50th anniversary.

**Copy seen:** DLC.

**25156. POLAR RECORD.** Joint Canadian-United States exercise "Sweetbriar", 1950. (Polar record, July 1951. v. 6, no. 42, p. 258)

Contains a note on a ten-day defence exercise in Feb. 1950, directed against an "aggressor" assumed to be invading Alaska and Canada via the Alaska Highway. 5200 troops, 1000 motor vehicles, 100 aircraft took part.

**Copy seen:** DLC.

**25157. POLAR RECORD.** L. Z. Spetzman's botanical investigations in northern Alaska, 1946, 1947, 1948 and 1949. (Polar record, Jan. 1952. v. 6, no. 43, p. 366-67)

Contains brief note on the areas and collections: 2000 vascular plants (300 species) collected in 1946-48, along Brooks Range and the area lying between the mountains and the shores of Beaufort Sea; in the summer of 1949, 250 species of plants were collected at Anaktuvuk Pass, Willow Creek, Umiat, Point Barrow and some other localities. Summarized from notes in *Arctic*, 1949-50, v. 2, no. 2, p. 124; v. 3, no. 1, p. 71; no. 2, p. 122.

**Copy seen:** DLC.

**25158. POLAR RECORD.** Low temperature Laboratory of the National Research Council of Canada, Ottawa (Polar record, July 1952. v. 6, no. 44, p. 544-45)

Contains a summarized account of the Laboratory; its refrigeration machinery, chambers, tunnels, etc., and its aims, viz: to facilitate the study of the effects of cold on man, materials, equipment, machinery, clothing, etc. The full account appeared in a mimeographed paper by John L. Orr, entitled: *The low temperature laboratory of the National Research Council* (National Research Council of Canada, Quarterly Bulletin of Aeronautical Laboratories, Report ME-1948 (3)).

**Copy seen:** CaMAI; DLC.

**25159. POLAR RECORD.** Magnetic observations in the Canadian Arctic, 1947-49. (Polar record, July 1951, v. 6, no. 42, p. 247-53, map)

*Contains* summary of earlier work to locate the magnetic pole; instrumentation and personnel of the 1947 ("Polco") operation; itinerary and list of stations where successful observations were made; additional magnetic observations north of Lancaster Sound and Barrow Strait; Operation Magnetic 1948, 1949; data on North Magnetic Pole (position approx. 72°30' N. 98°30' W. on northern Prince of Wales Island), its normal and abnormal orbit; establishment of two permanent stations (Baker Lake and Resolute Bay) for the continuous study of changes of the magnetic pole; Operation Magnetic (1948) with the object to establish new magnetic stations north and west of Prince of Wales Island for better determination of the position of the magnetic pole; Operation Magnetic in 1949; its aims; personnel, itinerary; achievements.

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**25160. POLAR RECORD.** Oceanographical investigations at Point Barrow, Alaska, 1949. (Polar record, July 1950, v. 5, no. 40, p. 619)

*Contains* a note on the initiation and initiators of long-term oceanographic research at Point Barrow and on the preliminary work and test of equipment and facilities conducted by William G. Metcalf and John F. Holmes, who supplied the present information.

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**25161. POLAR RECORD.** Ornithological expedition to the Perry River, 1949. (Polar record, July 1950, v. 5, no. 40, p. 618)

*Contains* a note on the expedition of P. M. Scott with H. C. Hanson and P. Queneau in northeast Mackenzie District; the itinerary and research conducted; the latter concerned study of wild geese and other waterfowl of the area and search for their breeding grounds geographical and meteorological observations; photographs and a color film covering the expedition's work were taken.

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**25162. POLAR RECORD.** Oxford University expedition to Norwegian Lapland, 1950. (Polar record, Jan. 1952, v. 6, no. 43, p. 381)

*Contains* a brief note of this summer expedition led by F. White, botanist;

its studies of peat formation, collecting of lichens, mosses and other little-understood plant groups, mapping, studies of blood-groups among the Lapps, etc.

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**25163. POLAR RECORD.** Professor N. J. Polunin's botanical work in the American Arctic, 1946-49. (Polar record, July 1952, v. 6, no. 42, p. 245-57)

*Contains* an itinerary and brief report on the work conducted in the summer of 1946 with the aid of the Arctic Institute of North America and the Canadian Dept. of Mines and Resources. It consisted of a survey of vegetation in central and northern Ungava Peninsula, Southampton Island and the Baker Lake area of Keewatin District. The work continued in summer 1947 in several areas (67°37' N. 127°8' W. and 68°55' N. 124°55' W., etc.) and extensive pollen collections made from aircraft at a general height of 5000 ft. Further pollen collections were made by improved methods during summer 1948 and on a flight to the North Pole, Mar. 1949; and botanical work during summer 1949 is noted.

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**25164. POLAR RECORD.** Project "Snow Cornice" 1949. (Polar record, Jan. 1951, v. 6, no. 41, p. 97-99)

*Contains* brief report on investigations continued in 1949 at the Seward Glacial Research Station, under the direction of Walter A. Wood and Robert P. Sharp. The work included scaling of Mt. Vancouver (15,850 feet); studies of the glaciology, ice structure and crystallography on Malaspina Glacier; precipitation on Seward Glacier with observations on density, accumulation and ablation, temperature, thickness of glacier; routine meteorological observations; examination of Sitka spruce and Western hemlock trees, etc.

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**25165. POLAR RECORD.** Reading expedition to Jan Mayen, 1950. (Polar record, July 1951, v. 6, no. 42, p. 264-265, illus.)

*Contains* a note on a six-man summer expedition organized at Reading University and led by J. Warren Wilson. Botanical and geological surveys of the northeastern and southwestern parts of the island were made and the geological history of its highest mountain, Beerenberg, studied. Glaciological and zoological observations were made, some 2000

plant specimens collected and factors affecting local plant growth studied.

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**25166. POLAR RECORD.** Recent polar literature. A selected and annotated bibliography (Polar record, Jan. 1950, v. 5, no. 39, p. 485-518; July 1950, v. 5, no. 40, p. 641-59; Jan. 1951, v. 6, no. 41, p. 129-166; July 1951, v. 6, no. 42, p. 283-329; Jan. 1952, v. 6, no. 43, p. 423-60; July 1952, v. 6, no. 44, p. 551-82)

*Contains* under headings Arctic, Antarctic, General, several hundred items listed with brief note of content. Offprints of these lists may be ordered from the Scott Polar Research Institute, Cambridge, Eng. *Copy seen:* CaMAI.

**25167. POLAR RECORD.** Robert J. Flaherty. (Polar record, Jan. 1952, v. 6, no. 43, p. 420-21)

*Contains* obituary of Flaherty, 1884-1951, with sketch of his life, his explorations in the Ungava region, Belcher Islands, etc., and his film-making on Baffin Island.

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**25168. POLAR RECORD.** Royal Canadian Air Force operation "Lyon", 1949. (Polar record, Jan. 1952, v. 6, no. 43, p. 369-70)

*Contains* a note on an operation whose object was to transport members of the Queens University Expedition to Southampton Island in Aug. 1949, to make a comparative physiological examination of the Eskimos of northwest Foxe Basin. The personnel of the expedition and of other parties aboard the plane, their programs and itinerary are given.

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**25169. POLAR RECORD.** Royal Navy experimental trials in arctic waters, 1949. (Polar record, July 1950, v. 5, no. 40, p. 614-15)

*Contains* a summary of reports which appeared in the British press. These trials known as Operation Rusty had as object to test men, experimental clothing, machinery equipment and armament at prolonged low temperature. They were carried out in Feb.-Mar. 1949, by a naval force consisting of the light aircraft-carrier *Vengeance*, two destroyers, a frigate, a submarine, an oiler. A large number of specialists and scientists prepared and supervised the experiments which were conducted in Greenland Sea. Another task force making engine and armament tests is briefly noted.

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**25170. POLAR RECORD.** Small boats for use in Spitsbergen. (Polar record, Jan. 1950, v. 5, no. 39, p. 467)

*Contains* a note (based on information from P. S. B. Digby) on boats smaller than 25 feet in length used locally and by the Norsk Polarinstitutt; their characteristics, capacity, way of handling, etc. are given.

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**25171. POLAR RECORD.** Transliteration of Russian names. (Polar record, July 1952, v. 6, no. 44, p. 546)

*Contains* a note and reproduction of the transliteration table of Russian, recommended jointly by the Permanent Committee on Geographical Names for British Official Use and the U. S. Board on Geographic Names, at a meeting in London in October 1947.

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**25172. POLAR RECORD.** Ungava Bay fisheries expedition, 1947, 1948 and 1949. (Polar record, Jan. 1951, v. 6, no. 41, p. 92-95)

*Contains* a brief report on work of Maxwell J. Dunbar and Henry Hildebrand (McGill University), sponsored by the Fisheries Research Board of Canada. Investigation was undertaken to establish the aquatic resources of the area with a view to improving the diet and living standard of local Eskimo population. In the summer of 1947, temperatures, salinity and oxygen content of the Bay were studied and fishing experiments conducted. The work was extended in 1948 and a special research vessel, the *Calanus* built; during the summer, studies on food habits of fish and seals, on plankton, hydrography, etc. were conducted. Earlier in this year, winter biology and fishing were studied in several lakes near the Bay. The 1949 program included marking of cod, locating of adult Greenland halibut; biology of seals; experimental fishing, etc. Hydrography and marine biological studies were conducted by the *Calanus*. Collections of mammals and birds were made during the expeditions.

*Copy seen:* DLC.

**25173. POLAR RECORD.** U. S. Air Force weather reconnaissance flights to the North Pole. (Polar record, July 1950, v. 6, no. 42, p. 268)

*Contains* summary note on regular flights begun in 1947 from Ladd Field, Alaska over "Ptarmigan" and "Ptarmigan B" route (by Barrow - or Aklavik - Prince Patrick Island) to the North Pole.

Aircraft equipment, personnel, observations and their immediate transmission are briefly noted. **Copy seen:** DLC.

**25174. POLAR RECORD.** U. S. Army Frost Effects Laboratory, Boston. (Polar record, July 1952. v. 6, no. 44, p. 545-46)

*Contains a summary from: Report on cold room and equipment for frost investigation, prepared by Frost Effects Laboratory, Corps of Engineers, U. S. Army . . . Washington 1950, and other sources. The Laboratory, established in 1944, investigates the effects of freezing and thawing of the soil on roads, runways, with the aim of developing better designs. Between 1944 and 1949 frost action on northern airfields was studied. For testing soil samples, a cold room was completed in 1950; load-bearing capacity of ice; rate of its formation and welling, etc., are also studied.*

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**25175. POLAR RECORD.** United States Navy experimental training cruise in Alaskan waters, Operation "Mico-vex", 1949. (Polar record, July 1950. v. 5, no. 40, p. 619-20)

*Contains a brief account of the operation in which 30 ships and 18,000 officers and men took part, and which was planned to test arms and equipment and give experience of subarctic conditions to the crews. The main phases of the operation are briefly outlined and some of its results and conclusions given.*

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**25176. POLAR RECORD.** Work of the United States Coast and Geodetic Survey in Alaska, 1946-48. (Polar record, July 1950. v. 5, no. 40, p. 589-90)

*Contains notes based on the Annual Report of the Governor of Alaska to the Secretary of the Interior for the years ended June 30, 1947 and June 30, 1948; on aerial photographic, map and chart work, hydrographic work, triangulation surveys, tide prediction, etc., carried out or initiated in three years. Published results are noted.*

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**POLAR RECORD,** see also Blüthgen, J. Erschliessung d. Polargebiete seit 1939. 1950. No. 20728.

**25177. POLARÅRBOKEN.** Vi presenter Norsk Polarinstitutt og mennene bak. (Norsk polar-tidende, no. 9-12, Polarår-boken 1951, p. 5-30, illus. map). Text in Norwegian and English. **Title tr.:**

The Norsk Polarinstitutt and the men behind it.

*Contains an account, based on interviews with H. U. Sverdrup the director, and with the staff, of the Institute's scientific activities and publications in Norwegian Arctic and Antarctic, its financial resources; international cooperation in research; prospects of a polar museum and new building, etc.; interview with A. K. Orvin, vice director and geologist, on practical work of the Institute: its maintenance and operation of lighthouses and radio beacons on Svalbard; and its fixing of place names; geological research and mapping; etc.; with the topographer W. Wolheim, and his assistants, on recent advances and instruments in geodesy, mapping, etc.; with Harald Major the geologist, on geological surveying, especially that of the Svalbard coal fields, the peculiarities and uses of the coal, stratigraphy, other deposits, etc.; with K. Z. Lundquist on the hydrographical work, navigation and lighthouses in the Norwegian Arctic; soundings, etc.; with the glaciologist and librarian-secretary on their departments and activities. Biographical notes of the persons interviewed, are included.*

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**25178. POLARBOKEN.** Norsk Polarinstitutt. (Polarboken, 1949. p. 131-32). Text in Norwegian. **Title tr.:** The Norwegian Polar Institute.

The Norsk Polarinstitutt which was established on March 1, 1948 will carry on and expand the work done by Norway's Svalbard and Arctic Ocean Investigations (Norges Svalbard- og Ishavs-Undersøkelser). The latter was founded in 1928 in order to continue the activities of the state-supported Svalbard expeditions. The region involved included Svalbard, Franz Josef Land, Jan Mayen, and parts of East Greenland. The new institute will continue the scientific series published by the older organization (the *Skifter og Meddelelser*) and plans to carry on more scientific research than heretofore with the aid of specialists from the Universities of Oslo and Bergen and other learned institutions. The director is Prof. H. U. Sverdrup of the University of Oslo, formerly professor of Oceanography at the University of California, and his assistant is a geologist, Dr. A. K. Orvin. **Copy seen:** CaMAI.

**25179. POLARBOKEN.** Odd Arnesen, polarjournalisten, 29 mars 1897-23 januar

1946. (Polarboken, 1949, p. 5-6, illus.) **Title tr.:** Odd Arnesen, the polar journalist, March 29, 1897-January 23, 1946.

Odd Arnesen was Norway's leading newspaper authority on polar matters. In addition to his many contributions to the daily press, he was editor of the *Polar-årbok* (*Polar annual*) and wrote a number of books on the Arctic and Antarctic, the most important and successful of which were *Road Amundsen som han var* and *Hele Norges skule "Fram."*

**Copy seen:** CaMAI.

**25180. POLARBOKEN.** Smånytt fra polarfrontene. (Polarboken, 1949, p. 133-37) **Title tr.:** News items from the polar fronts.

Norwegian activities on Svalbard and East Greenland are briefly reviewed for the 1945-1948 period. Special mention is made of the Svalbard expeditions conducted in 1947 by the Svalbard Undersøkelser and in 1948 by the Norsk Polar-institutt, which carried out topographical, hydrographical and geological investigations. Three Danish expeditions to Greenland under Munck and Knuth, Lange Koch, and Ib Paulsen are reported on for 1947 and 1948.

**Copy seen:** CaMAI.

**25181. POLEVOÏ, P. I.** Anadyrskii kraĭ, chast' 1. Glavnelshie rezul'taty Anadyrskoi ėkspeditsii. Petrograd, Tipografiā M. M. Stasiūlevicha, 1915. 136 p., plates 1-12, map. (U. S. S. R. Geologicheskii komitet. Trudy, 1915. Novaiā seriā, vyp. 140) **Title tr.:** The Anadyr region, pt. I. The principal results of the Anadyr Expedition.

Contains the results of the Anadyr Expedition of 1912-14 sponsored by the Geological Committee, with notes on organization of the expedition, history of the study of the region. Data are given on geomorphology, climate, vegetation, fauna, population, stratigraphy (sedimentary deposits and igneous rocks), tectonics, geological history and mineral resources (gold, coal and sulphur). Summary in English, p. 116-32.

**Copy seen:** MH-Z.

**25182. POLIĀNOVSKIĬ, MAK S LEONI-DOVICH.** Ot Onego do Belogo moriā; po Karelo - Murmanskomu kraiu. [Moskva] Molodaia gvardiia, 1931. 254 p., illus. (Biblioteka ėkspeditsii i puteshestvii) **Title tr.:** From Onega to the White Sea; across the Karelia-Murman region.

Account written for young people, of this northernmost region of European Russia. (Karelia and Kola Peninsula); its history, people, natural resources, forestry, fisheries and industry.

**Copy seen:** DLC.

**25183. POLIĀNOVSKIĬ, MAK S LEONI-DOVICH, and L. SAĬANSKIĬ.** Sredi trekh morei; po Kamchatke. Moskva, Molodaia gvardiia, 1931. 221 p., 29 illus., 2 text maps. (Biblioteka ėkspeditsii i puteshestvii) **Title tr.:** Between three seas; on Kamchatka.

Publication for youth telling about the trip to Kamchatka; its climate; the people, their life and occupations; the capital, Petropavlovsk; Klyuchevskaya volcano and Komandorskiye Islands; industry.

**Copy seen:** DLC.

**POLIĀNSKIĬ, V. I.,** see Elenkin, A. A., & others. Sinezelenye vodorosli SSSR, I-II. 1938-49. No. 21634.

**25184. POLIĀRNIKI V OTECHEST-VENNOI VOĖNE** (Ocherki i dokumenty). Moskva. Izd-vo Glavsevmorputi, 1945. 257 p. plates, ports. **Title tr.:** Polar workers in the patriotic war. (Sketches and documents).

Account of outstanding war performances, by people normally connected with arctic work; includes their regular service on the German front, partisan and underground activities; first aid on the front. Several women are included.

**Copy seen:** DLC.

**25185. POLIKASHIN, ALEKSEĬ IL'ICH.** Na Chukotke. Zapiski polār-nika. Leningrad-Moskva, Izd-vo Glavsevmorputi, 1940. 140 p. **Title tr.:** On Chukotka; notes of a worker in the Arctic.

Sketch for the general reader, of the author's journey from Moscow by Vladivostok, Petropavlovsk-in-Kamchatka and Bering Strait to Uelen on the northeast coast of the Chukotsk Peninsula (66°10' N. 169°50' W.) and his two winters there, 1935-37, at the polar station; description of the everyday working conditions, relations with the Chukchis; a trip along the northern coast of the peninsula to visit the polar stations at Serdtse-Kamen' and Guba Kolyuchinskaya; the activity in the Soviet polar aviation.

**Copy seen:** DLC.

**25186. POLKANOV, ALEKSANDR ALEKSEEVICH, 1888-** . Egrinitsy

plutona Gremiâkha-Vyrmes na Kol'skom poluostrove. (Vserossiiskoe mineralogi-cheskoe obshchestvo. Zapiski, 1940. ser. 2, chast 69, vyp. 2-3, p. 303-309, illus.) **Title tr.:** The aegirinites of the Gremyâkha-Vyrmes pluton on Kola Peninsula.

"Three types of aegirinites and three series of intermediate syenitic rocks are described. Chemical analyses are included."—Geological Society of America, *Bibliography and index of geology*, 1947, pub. 1948, v. 12, p. 185. Summary in English. **Copy seen:** MH.

**25187. POLKANOV, ALEKSANDR ALEKSEEVICH, 1888-** . K voprosu o genezise titana magnetitovogo orudeneniâ gabbrosienitov plutona Gremiâkha-Vyrmes (Kol'skii Poluostrov). (Akademiiâ nauk SSSR. Izvestiâ. Seriiâ geologicheskaiâ, 1944. no. 6, p. 34-51, illus.) **Title tr.:** On the genesis of titanic magnetite-bearing gabbro-syenites of the Gremyâkha-Vyrmes pluton, Kola Peninsula.

"The accumulation of titanic magnetite in the Gremyâkha-Vyrmes pluton is genetically related to ultrabasic and basic rocks of the series of hortonolite—peridotite—gabbro—anorthosite and hortonolite—peridotite—oligoclase gabbro—âkerite—pulaskite, associated in banded structures. The first series of rocks was formed during a gravitative crystallization differentiation of the gabbro magma (the first subphase of the intrusion), and the second during a differentiation of the kjelsite magma (the second subphase of the intrusion). This is confirmed by the formation of asymmetrical banded structures and the paragenesis of the rocks. The mineralization belongs to the type of 'rest magma enriched deposits' of J. Vogt or, rather, to the 'fusive' type of A. N. Zavaritsky."—Geological Society of America, *Bibliography and index of geology*, 1945-46, v. 11, p. 254. Summary in English.

**Copy seen:** MH.

**25188. POLKANOV, ALEKSANDR ALEKSEEVICH, 1888-** . On a new deposit of nephelite rocks in the northwestern part of the Kola Peninsula. (Akademiiâ nauk SSSR. Comptes rendus (Doklady), 1945. nouv. ser., v. 46, no. 2, p. 72-74, sketch map)

"Describes the petrology of the [Kola-Tuloma River] region in the northwest part of the Kola Peninsula."—Geological

Society of America, *Bibliography and index of geology*, 1945-46. v. 11, p. 254.

**Copy seen:** DLC.

**25189. POLKANOV, ALEKSANDR ALEKSEEVICH, 1888-** . Pluton shchelochnykh porod Chagve-Ualv. (Akademiiâ nauk SSSR. Izvestiâ. Seriiâ geologicheskaiâ, 1938. no 5-6, p. 771-801, illus., plates 1-3) **Title tr.:** The pluton of the alkaline rocks of Chagve-Ualv.

Contains data on the geology, petrography and petrology of the pluton of alkaline rocks of the Chagve-Ualv tundra region (about 69°50' N. 32°20' E.) in Kola Peninsula, first discovered by B. A. Popov in 1899. Physical and chemical analyses of magma are given, and data on the evolution of the magma of the pluton. Summary in English.

**Copy seen:** DLC; MH.

**25190. POLKANOV, ALEKSANDR ALEKSEEVICH, 1888-** , and N. A. ELISEEV. Struktura i geologicheskaiâ istoriâ plutona shchelochnykh porod Gremiâkha-Vyrmes na Kol'skom poluostrove. (Akademiiâ nauk SSSR. Izvestiâ. Seriiâ geologicheskaiâ, 1940. no. 2, p. 55-72, text maps) **Title tr.:** Structure and geological history of the Gremyâkha-Vyrmes pluton of alkaline rocks on the Kola Peninsula.

"The Gremyâkha-Vyrmes pluton . . . is a composite massif formed of gabbro-syenite, nephelite, and nordmarkite-alkaline granite complexes. These complexes represent three successive major phases of intrusion which took place in a tectonic fracture at the boundary between pre-Cambrian masses of paragneiss and intrusive gneiss."—Geological Society of America, *Bibliography and index of geology*, 1940, v. 8, p. 186. Summary in English.

**Copy seen:** MH.

**25191. POLUNIN, NICHOLAS VLADIMIR, 1909-** , and CLIFFORD DARTON KELLY, 1894-. Arctic aerobiology; fungi and bacteria, etc., caught in the air during flights over the geographical North Pole. (Nature, London, Aug. 23, 1952, v. 170, no. 4321, p. 314-16)

"Spores were collected on flights from Alaska in Sept. 1948 and March 1949. The apparatus is described. Results were compared with origin of air mass. In Sept. live spores were found even at 8500 ft. over the pole in air of mixed origin; in the Arctic generally they were most frequent in air of southerly origin.

In March the air was nearly but not quite sterile."—*Meteorological abstracts and bibliography*, Nov. 1952. v. 3, no. 11, p. 1144.

**Copy seen:** DWB.

**25192. POLUNIN, NICHOLAS VLADIMIR, 1909–**. Arctic aerobiology; pollen grains and other spores observed on sticky slides exposed in 1947. (*Nature*, Oct. 27, 1951. v. 168, p. 718–21, 2 sketch maps, tables)

*Contains* numerical and other details of microscopic investigations of pollen grains, spores of pteridophytes and bryophytes and those of pathogenic or other fungi, found on slides which were exposed on four flights during Aug.–Sept. 1947: (1) from northwest of Bear Lake to the mouth of the Horton River, Aug. 12; (2) from Cambridge Bay, Victoria Island, to Somerset Island at latitude 73° N., Aug. 26; (3) from Cambridge Bay southwestward to Yellowknife, Aug. 27; and thence (4) south to Edmonton, Alberta, Sept. 5. Includes some discussion of the air masses carrying the organisms. *Bibliography* (10 items). **Copy seen:** DA; DLC.

**25193. POLUNIN, NICHOLAS VLADIMIR, 1909–**. *Cochlearia officinalis* s. l. (scurvy grass) in northernmost Alaska. (*Science*, Jan. 17, 1952. v. 116, no. 3016, p. 430–32)

*Contains* a discussion of the problem of *Cochlearia* varieties (or subspecies) in the Point Barrow region, treated by J. H. Thomas in *Cochlearia officinalis arctica*, 1952, q. v., a plea for more biological and phenological data in studies of arctic plants, specifically on the question how *Cochlearia*, claimed by some to be a biennial plant, survives the severe arctic winter, and how some other species overwinter. *Bibliography* (10 items).

**Copy seen:** DLC.

**25194. POLUNIN, NICHOLAS VLADIMIR, 1909–**. "Northwest Passage" plants in the Scott Polar Research Institute. (*Canadian field naturalist*, Jan.–Feb. 1950. v. 64, p. 45–51, sketch map)

*Descriptive* notes on six sets of collections from the voyages of Parry and Ross, 1818–22; with a *bibliography* (19 items).

**Copy seen:** DSI–M.

**25195. POLUNIN, NICHOLAS VLADIMIR, 1909–**. *Perlustrationes plantarum arcticarum* II: "Parry plants" in the Manchester Museum. (*Rhodora*, Feb. 1952. v. 54, no. 638, p. 45–55) **Title tr.:** Surveys of arctic plants II:

"Parry plants" in the Manchester Museum.

*Contains* a description of three sets of plants, totalling about 130 specimens collected by Sir W. E. Parry on his third voyage in the Canadian Arctic and now at the Manchester Museum; order and nomenclature are according to the author's *Botany of the Canadian Eastern Arctic* (No. 13670–72 in *Arctic Bibliography*). The physical appearance of the sheets on which the plants were originally mounted is described and notes given including some localities of finds (Port Bowen, Whalefish Islands, etc.) and their dates (1824, 1825). **Copy seen:** DLC.

**25196. POLUNIN, NICHOLAS VLADIMIR, 1909–**. *Perlustrationes plantarum arcticarum* III: "Parry plants" in the possession of the Royal Geographical Society, London. (*Rhodora*, Aug. 1952. v. 54, no. 644, p. 213–16) **Title tr.:** Surveys of arctic plants III: "Parry plants" in the possession of the Royal Geographical Society, London.

*Contains* a description of a small collection (17 specimens) made (according to a note on a sheet) apparently in 1823 on Melville Peninsula during Parry's second voyage for discovery of the Northwest Passage (1821–23). The physical appearance of the sheets, later notes on them, etc., are discussed.

**Copy seen:** DA.

**25197. POLUNIN, NICHOLAS VLADIMIR, 1909–**. *Perlustrationes plantarum arcticarum* IV: "Parry plants" added to the University Herbaria, Oxford. (*Rhodora*, Nov. 1952. v. 54, no. 647, p. 271–85) **Title tr.:** Surveys of arctic plants IV: "Parry plants" added to the University Herbaria, Oxford.

*Contains* an account of three sets of arctic plants from the Oxford herbarium, collected by Sir W. E. Parry. Their relation to other known sets is indicated, with descriptions where necessary, the order and nomenclature are those of the author. Each of the sets is dealt with separately: the physical appearance of the mounts, notes found on them, history of the particular set, etc. The three sets contain 57 plant specimens.

**Copy seen:** DA.

**POLUNIN, NICHOLAS VLADIMIR, 1909–**, *see also* Kelly, C. D., & others. Aerobiol. sampling methods from aircraft. 1951. No. 23183.

**POLUNIN, NICHOLAS VLADIMIR, 1909-**, see also *Polar record*. Prof. Polunin's work 1946-49. 1951. No. 25163.

**25198. POLUTOV, I. A.** Kamchatskaia treska i ee promysel. (Biulleten' rybnogo khozaistva, 1940. no. 12, p. 7-10, tables) *Title tr.*: Kamchatka codfish and its fishery.

Biological data on distribution, size, growth, food and migrations of the local races are given, followed by an account of the industry; its distribution; yield; and fishing methods applied.

*Copy seen:* DLC.

**25199. POLUTOV, I. A.** Migratsiia treski v Avachinskom zalive v period promyslovogo sezona. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1937. no. 27, p. 95-106, illus., text map) *Title tr.*: Cod migrations in Avachinsk Bay during fishing season.

Contains the results of the study of cod migration carried out over a period of several years in Avacha Bay on the eastern coast of Kamchatka Peninsula; tagging was used and observations made on the time, place, conditions and direction of migration; the wintering grounds and spawning regions of the cod could not be established. Summary in English.

*Copy seen:* DLC; MH-Z.

**25200. POMARTSEVA, E.** Arkhipelag Shpitsbergen. (Morskoi flot, Jan. 1952. v. 12, no. 1, p. 29-31) *Title tr.*: The Spitsbergen archipelago.

Contains an historical account of Russian exploitation and exploration of Svalbard and of the international agreements regarding these islands since 1871. The article was written in response of Norway's joining the North Atlantic Treaty Organization in Jan. 1951, which brings the archipelago and Bear Island under the NATO command.

*Copy seen:* DLC.

**25201. POMERANTSEV, BORIS IVANOVICH, 1903-1939.** Kleshchi (sem. Ixodidae) SSSR i sopredel'nykh stran. Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1946. 27 p., illus. (*In:* Akademiia nauk SSSR. Opredeliteli po faune SSSR. no. 26) *Title tr.*: Ticks (fam. Ixodidae) of the U.S.S.R. and adjacent countries.

Contains tables for the determination of the genera and species of ticks (fam.

Ixodidae) affecting domestic and wild animals of the U.S.S.R., with brief descriptive notes and data on host animals and geographic distribution; includes some species native to the northern regions of the U.S.S.R. and Kamchatka.

*Copy seen:* MH-Z.

**POMERANTZ, MARTIN A.,** see *Polar record*. Cosmic ray investigations 1949-50. 1951 No. 25138.

**25202. POMPECKJ, JOSEF FELIX, 1867-1930.** Jura-Fossilien aus Alaska. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1900. Ser. 2, chast' 38, p. 239-80, 3 plates) *Title tr.*: Jurassic fossils from Alaska.

Description and discussion of ten (including six new) fossil cephalopod species, and two lamellibranch species from the Katmai region of Alaska Peninsula and Kodiak Island, originally treated by C. Grewingk in 1850, or later added to the St. Petersburg Museum, where the author carried out this investigation. Bibliography (10 items).

*Copy seen:* DLC.

**25203. PONOMAREV, A. S.** Pravil'no organizovat' plemennuiu rabotu v olenevodstve. (Sotsialisticheskoe zhivotnovodstvo, Dec. 1952. v. 14, no. 12, p. 64-68, illus.) *Title tr.*: Organize properly the pedigree work in reindeer farming.

Contains sections on the importance of proper selection of bulls for the increase in productivity of the herds; on the advantages of supplementary feeding, parasite control and protection of the animals against wolves; methods of herding and pasture applied in Komi and the Nenets District; elimination of sick, weak or undersized animals; special organization, feeding and handling of pedigree herds, etc.

*Copy seen:* DLC.

**PONOMAREV, S. T.,** see Andreev, A. I. Russ. discoveries in Pacific & N. America. 1952. No. 20215.

**25204. PONOMAREV, T. N.** K voprosu o toplivnoi baze Kol'skogo poluostrova. (Karelo-Murmanskii krai, 1934. v. 12, no. 3-4, p. 31-36, map) *Title tr.*: The problem of a fuel base for the Kola Peninsula.

Due to the lack of coal and oil resources, the area is depending on imports of fuel (except wood), a circumstance which hampers the development of ore indus-

tries. The author therefore studies and analyzes the practicability of importing coal from Spitsbergen and the Pechora area; he favors the latter on the grounds that it also has rich oil resources.

**Copy seen:** DLC.

**25205. PONOMAREV, V. M.** "Vech-naia merzlota" po novelshim dannym. (Sovetskaiâ geologiâ, 1937. no. 4, p. 360-70, illus., tables) **Title tr.:** "Permafrost" according to the most recent data.

On the basis of discovery in some permafrost areas of highly mineralized liquid ground waters with negative temperatures, the author proposes to replace the concept of permafrost by a broader one "zone of negative temperature of the lithosphere". Summary in English.

**Copy seen:** DLC.

**25206. POOLE, W. A.** The discovery of Prince Charles Island. (Arctic circular, Feb. 1951. v. 4, p. 29-30)

A hitherto unpublished account written in 1932 by the commander of C. G. S. *Ocean Eagle* of the sighting of an island in Foxe Basin on Sept. 2, 1932, by C. P. Rendell, mate of the ship. This island is now identified with Prince Charles Island (68° N. 76° W.) "discovered" from an R. C. A. F. airplane in July 1948.

**Copy seen:** CaMAI; DAL.

**POPE, TED,** *see Alcan ingot.* For arctic lighting. 1952. No. 2025.

**25207. POPLAVSKAIA, G. I., and others.** Ocherki po èkologii rastenii, II. Iz rabot po èkologii rastenii kafedry geobotaniki Leningradskogo gosudarstvennogo universiteta. (Leningradskoe obshchestvo estestvoispytatelei. Trudy, 1937. Otdelenie botaniki. t. 66, no. 2, p. 303-319, tables) **Title tr.:** Essays on the ecology of plants, 2. From work on plant ecology, geobotanical section of Leningrad University.

**Contents:** (following introductory note with title as above) Zvorykina, N. F., and M. I. Kirpichnikov. Èkologicheskoe znachenie zimnei transpiratsii drevesnykh porod raznogo proiskhozhdeniia (The ecological importance of winter transpiration in arboreous species of various origins), p. 304-312. Authors give data on experiments on winter transpiration of plants belonging to the same genus or species but of different geographical origin. On the whole, the earlier conclusions of Ivanov (1925) were confirmed, viz, that southern forms have a stronger

transpiration than have the northern forms.

**Snigireva, A. V.** K èkologii kustarnikov, sokhranaiushchikh na zimu listvu (The ecology of bushes that retain their foliage in winter), p. 313-19. Studies on winter transpiration of bushes with non-deciduous leaves demonstrated that a southern species growing together with a northern uses a larger amount of water. This is also the case with bushes having deciduous leaves.

**Copy seen:** DLC.

**25208. POPOV, A.** Ob ishehezaushchikh ostrovakh v severnom ledovitom okeane. (Znanie-sila, July 1952. no. 7, p. 14-15, map) **Title tr.:** On disappearing islands in the Arctic Ocean.

**Contains** discussion of the disappearance of some arctic islands and the reasons for it. Giving a description of permafrost and its formation, the author stresses that during the last glacial period, its extent and the extent of the Siberian plain was far beyond the present northern shoreline. Due to rise of the sea and the temperature, and also through the action of the rivers, this land mass was broken up into islands, which continued and still continue to decrease in size and to disappear. Those of Laptev and East Siberian Seas peripheral to the New Siberian archipelago exemplify this process. Author mentions the disappearance of Sv. Diomedea discovered by D. Laptev in 1739 and seen 22 years later by Shalaurov, the successive diminution and final disappearance of Ostrov Vasil'yevskiy, near Stolbovoy Ostrov (74°10' N. 133° E.), etc.

**Copy seen:** DLC.

**POPOV, A. I., see Portenko, L. A., & others.** Pervye rezul'taty raspokopaniya. 1951. No. 25257.

**POPOV, A. I., see also Tumel', V. F., & others.** Merzlotnye usloviâ Dal' vost. 1947. No. 26840.

**25209. POPOV, A. M.** Cyclopteridae (Pisces) Okhotskogo moria po sboram Gidrograficheskoi èkspeditsii Vostochnogo okeana. (Akademiâ nauk SSSR. Izvestiia, seriâ VII. Otdelenie matematicheskikh i estestvennykh nauk, 1931. no. 1, p. 85-99, illus.) **Title tr.:** Cyclopteridae (Pisces) of Okhotsk Sea collected by the Hydrographic Expedition to the Pacific Ocean.

**Contains** descriptions of six species of fishes, fam. Cyclopteridae, collected in the Okhotsk Sea (mainly in 1918) by the

Pacific Hydrographic Expedition; including Russian and English diagnoses of *Cyclopsis tenta cularis* n. gen. et sp., *Cyclopteropsis bergi* and *Eumicrotremus soldatavi* n. spp.; a table for the determination of eight genera and a table of dimensions. **Copy seen:** DLC; MH-Z.

**25210. POPOV, A. M.** A new genus and species, *Lycozoarces hubbsi*, gen. n. sp. n. (Pisces, Zoarcidae), of the Okhotsk Sea. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1935. nouv. ser., v. 4 (9), no. 6-7 (75-76), p. 303-304, illus.)

**Copy seen:** DLC.

**25211. POPOV, A. M.** O novom rode ryb *Davidjordania* (Zoarcidae, Pisces) v Tikhom okeane. (Akademiia nauk SSSR. Doklady, seriia A, 1931. no. 8, p. 210-15) **Title tr.:** On a new genus of fishes, *Davidjordania* (Zoarcidae, Pisces) from the Pacific Ocean.

A new genus of fishes, with four species is described from the North Pacific. Summary in English.

**Copy seen:** DLC.

**25212. POPOV, A. M.** A short review of the fishes of the family Cyclopteridae. (Annals and magazine of natural history, 1930. ser. 10, v. 6, p. 69-76)

**Contains** a synopsis of the genera of fam. Cyclopteridae and brief descriptions of 25 species, including 22 native to arctic seas and northern parts of Atlantic and Pacific Oceans.

**Copy seen:** MH-Z.

**POPOV, A. M.,** see also Soldatov, V. K., & A. M. Popov. On new Genus *Cyclopteropsis*. 1929. No. 26330.

**25213. POPOV, ANDREĬ ALEKSANDROVICH.** Iz otcheta o komandirovke k nganasanam ot Instituta etnografii Akademii nauk SSSR. (Sovetskaiia etnografiia. Sbornik statei, 1940. t. 3, p. 247-49) **Title tr.:** From the report on a mission to Nganasans, sent by Institute of Ethnography, Academy of Sciences U.S.S.R.

**Contains** an account of the author's two-year (1936-37) expedition to the Taymyr region with the purpose of studying the life of the Samoyedic group the Tawgis, their origin and social organization. He visited the regions of the Khatanga and Bol'shaya Balakhnya Rivers and Lake Taymyr; noted material on hunting, fishing and folklore; made 800 photographs, collected 500 objects and 4000 words, etc. Part of the results

are published as the author's *Nganasany* vyp. 1, 1948, q. v. See also *Arctic Bibliography*, No. 13731, for a preliminary paper.

**Copy seen:** DLC.

**25214. POPOV, ANDREĬ ALEKSANDROVICH.** Kochevaiia zhizn' i tipy zhilisheh u dolgan. (Akademiia nauk SSSR. Institut etnografii. Trudy, 1952. Novaiia seriia. t. 18, Sibirskii etnograficheskii sbornik, p. 142-72, 27 illus., incl. 2 fold. plates, 2 tables) **Title tr.:** Nomadic life and types of dwellings among the Dolgans.

**Contains** description of the old summer and winter dwellings, the portable modern frame cabins, built on reindeer sledges, the interior of a tent (*chum*), types of sledges, saddles and harness, etc. The huts and tents, their construction, sites, etc., also the sledges and reindeer hitches are shown in numerous figures and photographs through the text. This is based on material collected by the author for the Academy of Sciences during his two-year ethnographic expedition in north-eastern Taymyr in 1930-31. The occupation of these people (who are Yakutized Tungus) is reindeer breeding, hunting and fishing. Collectivization was completed among them in 1938, and now the Dolgans, living in the waste region of the Dudinka, Avam and Khatanga Rivers (about one-half million sq. km.) are organized into a little more than ten kolkhoses.

**Copy seen:** DLC.

**25215. POPOV, ANDREĬ ALEKSANDROVICH.** Materialy po istorii religii iakutov b. Vil'us'skogo okruga. (Akademiia nauk SSSR. Muzei antropologii i etnografii, 1949. Sbornik, t. 11, p. 255-323, 26 illus.) **Title tr.:** Materials to the history of religion of the Yakuts in the former District of Vilyuysk.

**Contains** first-hand material, collected by the author in the northwestern part of the District of Vilyuysk (in the villages of Ugul'atsk, Pervyi Batulinsk, Onogoshchutsk, and Mangassk) in 1922-25 on (1) cosmogony, groups of good and evil gods, their names and functions, beliefs and customs connected with hunting and fishing, all kinds of prohibitions; (2) divinations, religious feasts, customs at birth and burial, beliefs about the soul and its fate after man's death. Includes an epic song about the tragic fate of the beautiful daughter of a prince from Olekminsk (in Yakut and Russian), and other texts. The introduction by

V. G. Bogoraz gives general remarks on the author and the collection.

**Copy seen:** DLC.

**25216. POPOV, ANDREĬ ALEKSANDROVICH.** Ngeanasany, vyp. 1. Material'naia kul'tura. Moskva-Leningrad, 1948. 122 p., 69 illus., fold. map, 36 plates (18 col.). (Akademiia nauk SSSR. Institut étnografii im. N. N. Miklukho-Maklaia. Novaiia seriia, t. 3) **Title tr.:** The Ngeanasans, part 1. Material culture.

*Contains* results of field work in the Taymyr district (from Dudinka north and east beyond Lake Taymyr) 1936-38, to study the Tawgis (new name: Ngeanasans) a Samoyed group. Main geographical, historical, and statistical data are given. The annual economic cycle, hunting and fishing, reindeer breeding, and means of communication are discussed. Tools and processes of production, the dwellings, domestic utensils, and camps of the Ngeanasans are described. Then follow chapters on food and clothing. There are many indications that the Ngeanasans formerly lived in southern areas of Siberia. The rich illustrative matter includes sketches and photographs showing these people, their accoutrements and activities in great detail: sledge structures, clothing and tent designs, plans of the camps, the wild reindeer hunt, etc.

A previous publication Tavgiŭtsy, 1936 (*Arctic Bibliography*, No. 13734) the result of the author's field work 1930-32 was a preliminary outline of the elements of the Tawgis' culture (including material aspects). **Copy seen:** DLC; InU.

**25217. POPOV, ANDREĬ ALEKSANDROVICH.** Okhota i rybolovstvo u dolgan. (In: Akademiia nauk SSSR. Institut étnografii. Pamiaty V. G. Bogoraza, 1865-1936, pub. 1937. p. 147-206, illus., 5 plates, 2 sketch maps) **Title tr.:** Hunting and fishing among Dolgans.

Results of the author's field observations in 1930-1931 are reported here. The popular calendar of Dolgans is explained. Ways and means of hunting and the animals are described: northern wild reindeer, arctic fox, etc., and birds, important as food in summer. Kinds of fishes and methods of fishing are described. Principles of organization of hunting and fishing activities and of distribution of bag and catch are discussed, and finally,

the ideological connections of the hunt, protecting spirits, magical rites, taboo.

**Copy seen:** DLC.

**25218. POPOV, ANDREĬ ALEKSANDROVICH.** Starinnaiia iakutskaiia berestianaiia ūrta. (Akademiia nauk SSSR. Muzei antropologii i étnografii. Sbornik, 1949. t. 10, p. 98-106, 19 illus., incl. 10 col. plates) **Title tr.:** The old Yakut tent of birch bark.

*Contains* study on the conic tent formerly used among the Yakuts for a big family. It was made of wooden poles, covered with birch bark and had richly ornamented doors (see colored plates). The study is based on the author's own observations in the Vilyuysk District in 1924, also on the paintings of V. V. Sharavin made in 1925 around Yakutsk, and on the collections of the Muzei instituta étnografii. The conic form of the tent, its simple construction and light material indicate the nomadic mode of life of its inhabitants.

**Copy seen:** DLC.

**25219. POPOV, B. A.** Ob ékspeditsii 1901 goda na Kol'skii poluostrov, dlia izslédovaniia prostranstva mezhdu ozerami Noto i Imandra. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1903. ser. 2, chast' 40. Protokoly zasédanii, p. 52-58) **Title tr.:** On the Expedition to the Kola Peninsula for the investigation of the region between Lakes Noto and Imandra in 1901.

*Contains* a summary of the results of the author's investigation of the geological structure of Tuadash and Sa'naya tundra in Kola Peninsula, with data on the traces of former glaciation and a discussion of the origin and geological age of mountainous terraces of the explored region.

**Copy seen:** MH-Z.

**25220. POPOV, B. A.** Ob izslédovaniakh gneisso-granitov Laplandii. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1900. ser. 2, chast' 38, Protokoly zasédanii, p. 28-31) **Title tr.:** On an investigation of granite-gneiss formations of Lapland.

*Contains* a discussion of the genesis of gneiss-granite rocks of Russian Lapland (Kola Peninsula) based on the author's investigations in Motovskiy Bay on the Murman coast, and data on the mineralogical content of gneiss-granite formations, with analyses of their microstructure.

**Copy seen:** MH-Z.

**POPOV, B. A.**, see also Chernyshev, F. N. Godovol' otchet za 1901 g. 1903. No. 21177.

**POPOV, D. D.**, see Pekarskii, E. K. Slovar' iakutskago iazyka. 1907-1930. No. 25021.

**25221. POPOV, G.** Omoki; Kolym'skogo okruga, Yakutskoi respubliki. (Sovetskaiia Aziia, 1928. god 4, no. 2, p. 71-74) **Title tr.:** The Omoks; in the Kolym'sk district, Yakut republic.

Contains account of a little known nomadic tribe living on the middle and lower Alazeya River, said to number about 500 persons, to be probably related to the Yukaghirs or Tungus and to have their own language which was not yet investigated. Details are given of their daily life: nomadism, reindeer-breeding, hunting of fur-bearers, etc.; their tents and food, diseases, family organization, shamanism, etc. This information was taken by the author from a native Omok, who came as representative of his people to Yakutsk in 1927 and participated in a meeting of "small aboriginal peoples."

**Copied seen:** DLC.

**25222. POPOV, I. N.** Nakhodka sibirskogo nosoroga na Indigirke. (Priroda, 1949. no. 12, p. 45-46) **Title tr.:** Discovery of Siberian rhinoceros in Indigirka River region.

Contains a report of discovery of the hind leg of *Rhinoceros antiquitatis* in the frozen ground in the valley of Elgi River (left tributary of the Indigirka 64°20' N. 142°30' E.), and a review of five previous finds in Siberia of fossil remains of the same animal. **Copied seen:** DLC; MH.

**25223. POPOV, V. S.** O nakhodke nizhnokamennougol'noi fauny v basseine r. Nizhnei Tunguski. (Akademiia nauk SSSR. Izvestiia. Seriiu geologicheskaiia, 1938. no. 1, p. 13-14) **Title tr.:** On the discovery of Lower Carboniferous fauna in the basin of the Lower Tunguska River.

Contains brief data on the author's find in the summer of 1937, of six fossil brachiopod species and one trilobite on the Ugami River, a left tributary of the Lower Tunguska. Summary in English.

**Copied seen:** DLC; MH.

**25224. POPOV, VLADIMIR VENIAMINOVICH.** New forms of the genus *Psithyrus* Lep. (Konowia, 1927. Bd. 6, Heft 4, p. 267-74, illus.)

Contains a key to the species of hymenopterous genus *Psithyrus* and diagnoses of one new species and two varieties of these bumble-bees. Includes a description of *P. norvegicus*, native to Arkhangel'sk province, Solovetskiye Islands (White Sea) and Yakutia.

**Copied seen:** MH-Z.

**25225. POPOV, VLADIMIR VENIAMINOVICH.** Note on *Agrobombus smithianus* White (Hymenoptera, Bombycidae). (Russkoe entomologicheskoe obozrenie, 1930. t. 24, no. 1-2, p. 95-99, illus., text map)

Contains a comparative study of two often confounded species of bumblebees, *Agrobombus smithianus* and *A. muscorum*, with a table of distinctive characteristics and data on geographic distribution; the first species is native to northern Norway and Arkhangel'sk region.

**Copied seen:** DSL-M; MH-Z.

**25226. POPOVA, TAT'IANA GEORGIEVNA, 1898-** Evgeniinye (Euglenineae) Evropetskogo Severa SSSR. (Akademiia nauk SSSR. Botanicheskii institut. Trudy, ser. 2, Sporovye rasteniia, 1951. vyp. 7, p. 165-414, illus., plates 1-16) **Title tr.:** Euglenineae of the North of European U.S.S.R.

Contains characteristics and data on the morphology, biology and ecology of fresh-water flagellates of the class Euglenineae (ord. Eugleniales), p. 165-89; keys to the families, genera, species and varieties, and descriptions of 140 species and numerous varieties and forms (p. 189-363) with synonyms, critical notes, data on habitat and distribution, literature references and collections. Bibliography (about 300 items), illustrations (p. 376-407) and an index of Latin names are appended.

**Copied seen:** DLC.

**POPPE, N. N.**, see Castrén, M. A. Pamiat' M. A. Kastrena. 1927. No. 21135.

**25227. POPPIUS, BERTIL ROBERT. 1876-1916.** Beiträge zur Coleopteren- und Hemipteren-Fauna des untersten Jana-Gebietes und die Neusibirischen Inseln (Nordost Sibiriens). (Russkoe entomologicheskoe obozrenie, 1913. t. 13, no. 1, p. 82-84) **Title tr.:** Contributions to Coleoptera and Hemiptera fauna of the lower Yana River region and New Siberian Islands.

Contains a systematic list of twelve

beetles, including a description of *Amara* (*Cyrtomotus*) *birulai* n. sp. and one hemipter, *Orthotylus artemisiae*, collected in 1908-09 at the mouth of Yana River, northeastern Siberia, and on the New Siberian Islands.

**Copy seen:** DSI-M; MH-Z.

**25228. POPPIUS, BERTIL ROBERT, 1876-1916.** Beiträge zur Kenntniss der Coleopteren-Fauna des Lena-Thales in Ost-Sibirien. I. Haliplidae und Dytiscidae. Helsingfors, 1905. 24 p. (Finska vetenskaps-societeten. Oversigt af förhandlingar, 1904-1905. v. 47, no. 16) **Title tr.:** Contributions to the knowledge of the coleopterous fauna of the Lena Valley in East Siberia, I. Haliplidae and Dytiscidae.

*Contains* an account of two groups of water-beetles, *Haliplidae* and *Dytiscidae*. The first, general section deals with earlier studies, distribution and ecology, and zoogeographical components of the water-beetle fauna in this area as investigated during A. K. Cajander and B. R. Poppius' natural history trip in Lena valley in 1901 (see *Arctic Bibliography* No. 2636). The second section gives descriptions of 56 species (quite detailed for new ones), with dates and localities of finds. A considerable number were found along the lower Lena. Similar material from this area collected by Toll's Russian Polar Expedition 1901-03, was determined by Poppius (see *Arctic Bibliography* No. 13770).

**Copy seen:** DLC.

**25229. POPPIUS, BERTIL ROBERT, 1876-1916.** Beiträge zur Kenntniss der Coleopteren-Fauna des Lena-Thales in Ost-Sibirien. II. Cicindelidae und Carabidae. Helsingfors, 1906. 65 p. (Finska vetenskaps-societeten. Oversigt af förhandlingar, 1905-1906. v. 48, no. 3) **Title tr.:** Contributions to the knowledge of the coleopterous fauna of the Lena valley in eastern Siberia, II. Cicindelidae and Carabidae.

*Contains* a general part, giving a zoogeographical analysis of these two groups of beetles along the Lena valley, including the lower Lena; and a special part with a list of four forms of Cicindelidae and 186 forms of Carabidae. Localities and dates of finds are given and in cases of new forms detailed descriptions are offered.

**Copy seen:** DLC.

**25230. POPPIUS, BERTIL ROBERT, 1876-1916.** Beiträge zur Kenntniss der

Coleopteren-Fauna des Lena-Thales in Ost-Sibirien, III. Gyrinidae, Hydrophilidae, Georyssidae, Parnidae, Heteroceridae, Lathridiidae und Scarabaeidae. Helsingfors, 1907. 17 p. (Finska vetenskaps-societeten. Oversigt af förhandlingar, 1906-1907. v. 49, no. 2) **Title tr.:** Contributions to the knowledge of the coleopterous fauna of the Lena valley in eastern Siberia, III. Gyrinidae, Hydrophilidae, Georyssidae, Parnidae, Heteroceridae, Lathridiidae and Scarabaeidae.

*Contains* a list of 71 forms of these beetles, with localities and dates of finds given. New species are described in considerable detail. Forms found in the lower Lena valley are included.

**Copy seen:** DLC.

**25231. POPPIUS, BERTIL ROBERT, 1876-1916.** Beiträge zur Kenntniss der Coleopteren-Fauna des Lena-Thales in Ost-Sibirien, IV. Staphylinidae. Helsingfors, 1909. 53 p. (Finska vetenskaps-societeten. Oversigt af förhandlingar, 1908-1909. Afd. 51A, Matematik och naturvetenskaper, no. 4) **Title tr.:** Contributions to the knowledge of the coleopterous fauna of the Lena valley in eastern Siberia, IV. Staphylinidae.

*Contains* a brief introductory note on the zoogeography of this group of beetles followed by a list of 220 forms collected by the author in 1901. Locations, dates, and habitats of the finds are given. New species are described in detail. Forms from arctic areas are included.

**Copy seen:** DLC.

**25232. POPPIUS, BERTIL ROBERT, 1876-1916.** Beiträge zur Kenntniss der Coleopteren-Fauna des nordöstlichen Europäischen Russlands, I. Carnivora, Brachelytra, Silphidae und Corylophidae. (Akademifä nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1905, pub. 1907. t. 10, no. 3-4, p. 302-315) **Title tr.:** Contributions to the knowledge of Coleoptera fauna of northeastern European Russia, I. Carnivora, [etc.]

*Contains* a list of over 150 species of beetles of four Coleoptera families, collected mostly by Zhuravskii in the northern Pechora River basin and around Arkhangel'sk and Mezen'; including diagnoses and synonymy of *Carabus* (*Dio-carabus*) *polaris*, *Atheta* (*Metazyga*) *shuravskyi* and *Bledius gracilicornis* n. spp.

**Copy seen:** DLC; MH-Z.

**25233. POPPIUS, BERTIL ROBERT, 1876-1916.** Drei neue Arten der Gat-

tung *Tachinus* Grav. aus Ost-Sibirien. Helsingfors, 1904. 6 p. (Finska vetenskaps-societeten. Oversigt af förhandlingar, 1903-1904. v. 46, no. 13) **Title tr.:** Three new species of the genus *Tachinus* Grav., from eastern Siberia.

**Contains** descriptions of three new species of these beetles: *Tachinus tundrae*, n. sp. from the lower Lena; *Tachinus jacuticus*, n. sp. from the vicinity of Yakutsk, and, *Tachinus ochoticus*, n. sp., from Port Ayan, Okhotsk Sea coast.

**Copy seen:** DLC.

**25234. POPPIUS, BERTIL ROBERT, 1876-1916.** Kola-halföns och Enare Lappmarks Coleoptera. Helsingfors, 1905, pub. 1907. 200 p. (*In:* Festschrift Dr. J. A. Palmén. Bd. 2, no. 12) **Title tr.:** Coleoptera of the Kola Peninsula and Inari Lappmark.

**Contains** (in the general part, p. 1-84) historical notes on the study of the beetles of Kola Peninsula and Inari Lappmark in northern Finland, a survey of this fauna arranged by the families with lists of typical forms and data on their distribution. In the special parts (p. 84-200) is a systematic list of 1036 species and numerous varieties with data on habitat, collectors, time of collection and list of localities. Although the imprint date is 1905, this paper was actually published in 1907. **Copy seen:** MH-Z.

**25235. POPPIUS, BERTIL ROBERT, 1876-1916.** Eine neue *Hydropus*-Art von Novaja-Zemlja, (Russkoe éntomologicheskoe obozrenie, 1912. t. 12, no. 1, p. 107) **Title tr.:** A new species of *Hydropus* from Novaya Zemlya.

**Contains** a diagnosis of a new beetle, *Hydropus sumakovi* n. sp., found in 1911 by G. Sumakov on Novaya Zemlya.

**Copy seen:** DSI-M; MH-Z.

**25236. POPPIUS, BERTIL ROBERT, 1876-1916.** Neue palaearctische Coleopteren. Helsingfors, 1904. 14 p. (Finska vetenskaps-societeten. Oversigt af förhandlingar, 1903-1904. v. 46, no. 16) **Title tr.:** New palaearctic Coleoptera.

**Contains** a detailed description of nine new species of beetles, including three from the lower Lena and Kanin Peninsula and three from somewhat lower latitude of Yakutsk and Aldan River. The new forms are compared with closely related known species.

**Copy seen:** DLC.

**25237. POPPIUS, BERTIL ROBERT, 1876-1916.** Om förekomsten af *Anopheles claviger* Fabr. i svenska Lappmarken. (Entomologisk tidskrift, 1912. Årg. 33, häft. 1-2, p. 127-28) **Title tr.:** On occurrence of *Anopheles claviger* Fabr. in Swedish Lapland.

**Contains** a review of data available in the literature on distribution of a northern mosquito, *Anopheles claviger*, in Swedish Lapland, with additional notes on its occurrence in Finland and Siberia (Lena River region).

**Copy seen:** DLC; MH-Z.

**25238. POPPIUS, BERTIL ROBERT, 1876-1916.** Über einige Chaudoir'sche Arten der Pterostichen-Untergattung; *Cryobius* Chaud. Helsingfors, 1908. 4 p. (Finska vetenskaps-societeten. Oversigt af förhandlingar, 1907-1908. Bd. 50, no. 5) **Title tr.:** On some of Chaudoir's species of the Pterostich sub-genus *Cryobius* Chaud.

**Contains** a description of five species (one new) of these beetles (from the former Chaudoir collection then in possession of R. Oberthur of Rennes). The new species, *Cryobius sedakovi*, n. sp. is from eastern Siberia, the others from Kodiak and Sitka (Baranof) Islands.

**Copy seen:** DLC.

**25239. POPPIUS, BERTIL ROBERT, 1876-1916.** Über einige sibirische und nordwest-amerikanische Käfer-Arten. Helsingfors, 1908. 7 p. (Finska vetenskaps-societeten. Oversigt af förhandlingar, 1907-1908, Bd. 50, no. 6) **Title tr.:** On some Siberian and Northwest American species of beetles.

**Contains** a description of 16 forms of beetles collected by the Swedish Expeditions to the Yenisey 1875-76 and (11 species) by the Vega Expedition. Includes one new species, *Pterostichus (Cryobius) beringensis*, n. sp. from the Lavrentiya Guba region of Chukotsk Peninsula. The other forms live almost exclusively in Arctic Eurasia: Novaya Zemlya, lower Yenisey and Lena Rivers, Chukotsk Peninsula. Bibliographical footnotes.

**Copy seen:** DLC.

**POPPIUS, BERTIL ROBERT, 1876-1916, see also** Lindberg, Håkan. Verzeichnis im Lena-Tal gesammelten Heteropteren. 1928. No. 23868.

**25240. POPULAR MECHANICS.** Trains in the trackless Arctic. (Popular mechanics, May 1950. v. 93, no. 5, p. 125-29, 260, 262, 264, 266, illus.)

General account of U. S. Army Transportation Corps Board vehicles for arctic use (including tractors, ski vehicles), and difficulties encountered by men during testing maneuvers.

**Copy seen:** DLC.

**25241. PORAT, CARL OSCAR von.** Nya bidrag till skandinaviska halföns myriopodologi. (Entomologisk tidskrift, 1889. Årg. 10, häft 1, p. 33-48, häft 2, p. 65-80, häft 3, p. 113-48) **Title tr.:** New contributions to the myriopodology of the Scandinavian peninsula.

**Contains** a critical revision of all known Scandinavian myriapods with keys, synonymy, descriptions of 49 species, including three new species and two new varieties, critical notes and a synopsis of all species; includes a few species native to northern regions. Summary in French. **Copy seen:** DLC; MH-Z.

**25242. PORAT, CARL OSCAR von.** Om norska myriapoder. (Entomologisk tidskrift, 1887. Årg. 8, häft 1, p. 39-40, 155) **Title tr.:** On Norwegian myriapods.

**Contains** a list of 20 species of myriapods known from Norway in 1886, including four species new to the fauna of Norway, and *Lithobius forficatus* and *Geophilus proximus* native to Finnmark. Summary in French.

**Copy seen:** DLC; MH-Z.

**25243. PORETSKIĬ, VADIM SERGEE-VICH, 1898-1942.** Diatomovye vodrosli (Bacillariophyta) Evropeiskogo Severa SSSR. Porjadok Centrales. (Akademiâ nauk SSSR. Botanicheskii institut. Trudy, ser. 2, Sporovye rasteniâ, 1951. vyp. 7, p. 713-832, illus., plates 1-7) **Title tr.:** Diatoms (Bacillariophyta) of the North of the European U.S.S.R. Order Centrales.

**Contains** a critical revision of the order Centrales of fresh-water diatoms of the area, with keys to the orders, suborders, families, genera and species, descriptions of 60 species and some varieties and forms, synonyms, literature references, collections and data on habitat and distribution. Bibliography (about 275 items) and index of Latin names are added.

**Copy seen:** DLC.

**25244. PORETSKIĬ, VADIM SERGEE-VICH, 1898-1942.** Materialy k izucheniiu diatomovykh iz chetvertichnykh otlozhenii Kol'skogo poluoostrova. (Akademiâ nauk SSSR. Komissiiâ po

izucheniiu chetvertichnogo perioda. Trudy, 1937, t. 5, vyp. 1, p. 37-44)

**Title tr.:** Material on diatoms from Quaternary deposits on Kola Peninsula.

**Results** of micropaleobotanical investigation of diatoms collected by the author during the Academy of Sciences U.S.S.R. expedition of 1933, with remarks on earlier collections, including materials from the Khibiny and southern coastal areas; and comment that conclusions concerning the origin of the deposits are still uncertain. Bibliography (15 items). Summary in French.

**Copy seen:** DGS.

**25245. PORETSKIĬ, VADIM SERGEE-VICH, 1898-1942.** Mikropaleobotanicheskiĭ analiz chetvertichnykh otlozhenii o. Kolgueva. (Akademiâ nauk SSSR. Komissiiâ po izucheniiu chetvertichnogo perioda. Trudy, 1937. t. 5, vyp. 1, p. 45-46) **Title tr.:** Micropaleobotanical analyses of Quaternary deposits of Kolguev Island.

**The poor condition and scarcity of fossil diatoms, and lack of sufficient faunal indications do not permit conclusions concerning the paleoecologic conditions in the basin investigated, but do indicate the probability of a marine origin.** Summary in French.

**Copy seen:** DGS.

**25246. PORKKA, HARRAS H.** Rovaniemen-Kemijärven rautatie. (Teknillinen aikakauslehti, 1934. v. 24, p. 262) **Title tr.:** The Rovaniemi-Kemijärvi railroad.

**Contains** data on costs, excavations and use of the railroad from Rovaniemi to Kemijärvi (66°44' N. 27°25' E.) in northern Finland.

**Copy seen:** DLC.

**25247. PORSILD, ALF ERLING, 1901-** A biological exploration of Banks and Victoria Islands. (Arctic circular, Jan. 1950. v. 3, p. 2-9; reprinted with illus. and map in: Arctic, Apr. 1950. v. 3, p. 45-54; also (text only) in: Canada. National Museum. Bulletin 123, its Annual report for 1949-50, pub. 1951, p. 133-38)

**Account of aerial and ground reconnaissances in Aug. 1949, from a base at Holman Island Post on Victoria Island, with a general description of the plants, animals, physical features, flight conditions and weather, on these two islands in the Western Canadian Arctic.**

**Copy seen:** DAI; DLC.

**25248. PORSLID, ALF ERLING, 1901-** . Bird notes from Banks and Victoria Islands. (Canadian field-naturalist, Jan.-Feb. 1951. v. 65, p. 40-42)

Notes on 24 species, observed during Aug. 1949, an unfavorable season, which probably prevented birds from reaching their nesting grounds, and from breeding.

**Copy seen:** DGS; DSI-M.

**25249. PORSLID, ALF ERLING, 1901-** . Botany of southeastern Yukon adjacent to the Canol Road. Ottawa, 1951. v. 400 p. 39 plates, maps, tables. (Canada. National Museum [Ottawa] Bulletin no. 121. Biological series, no. 41)

Contains a study primarily of vascular plants collected during June-Sept. 1944 as part of the North Pacific Planning Project in the region of the 282-mile stretch of the Road from Teslin Lake to MacMillan Pass (60°13' W. 63°130' W.) "among the least known parts of Canada." The catalog is preceded by accounts of the history, the exploration of the area, also its topography, physiography (climate, snow, permafrost, soil, peat deposits, etc.). Its plant communities are treated with detailed accounts of each sector. Phytogeographic divisions of the Yukon are discussed, the origin and age of the flora. Then follows (p. 61-342) a catalog of all known plants of the Yukon, arranged in taxonomic order with notes on areas of occurrence, frequency, earlier observations, morphological peculiarities, etc. Bibliography (55 items) and photographic illustrations of Yukon vegetation and plant species complete the study.

**Copy seen:** DSI.

**25250. PORSLID, ALF ERLING, 1901-** . Five new Compositae from Yukon-Alaska. (Canadian field naturalist, Jan.-Feb. 1950. v. 64, p. 43-45)

Descriptions (in Latin) and notes on distribution of five new flowering plants.

**Copy seen:** DSI-M.

**25251. PORSLID, ALF ERLING, 1901-** . The genus *Antennaria* in northwestern Canada. (Canadian field naturalist, Jan.-Feb. 1950. v. 64, p. 1-25, illus.)

Taxonomic and phytogeographic study of the 31 species of this thistle in the Yukon and adjacent parts of Alaska and Northwest Territories; with a key.

**Copy seen:** DSI-M.

**25252. PORSLID, ALF ERLING, 1901-** . Plant life in the Arctic. (Canadian geographical journal, Mar. 1951. v. 42, p. 120-45, incl. 7 p. of illus, map, diagrs.)

Opening with remarks on the far northern occurrence of plants, and a description of the ecologic conditions of heat, light, hydrologic features, and soil deficiency, the author proceeds to discuss the structure, habit and dispersal of arctic plants, extent of the arctic habitat in North America, types of landscapes and plant communities, man's use of arctic flora, also (in some detail) various problems in arctic botany. Bibliography (19 items). The numerous photographic illustrations (including 2 p. in color) show plants and arctic landscape types.

**Copy seen:** DGS; DLC.

**25253. PORSLID, ALF ERLING, 1901-** . Vascular plants of Nueltin Lake, Northwest Territories. (Canada. National Museum. Annual report for 1948-49, pub. 1950 in its: Bulletin no. 118, p. 72-83, illus., fold. map)

Annotated catalog of 134 species and varieties (including 36 new records for Keewatin District) collected by Dr. F. Harper in 1947, at the northwestern extremity of Nueltin Lake; with some notes on the physiography and vegetation of the area. Bibliography (11 items).

**Copy seen:** DGS.

**PORSILD, ALF ERLING, 1901-** , see also Montreal. Botanical Garden. *Delectus seminum et sporarum. 1951. No. 24449.*

**25254. PORTENKO, LEONID ALEK-SANDROVICH, 1896-** . Geograficheskie rasy ili podvidy chegloka *Hypotriorchis subbuteo* (L.) (Akademiia nauk SSSR. Izvestiia, seriia 7. Otdelenie fiziko-matematicheskikh nauk, 1930, no. 4, p. 299-309, plates 1-2) **Title tr.:** Geographic races or subspecies of *Hypotriorchis subbuteo* (L.)

Contains a critical revision of geographic races (one new subspecies) of *Hypotriorchis subbuteo*, the hobby, a small bird of the falcon family, including descriptions and data on distribution of *H. s. subbuteo* occurring in the Northern Ural, *H. s. jacutensis* native to Verkhoyansk region (Yakutia) and *H. s. ussuriensis* from the Kamchatka Peninsula and Shantar Islands.

**Copy seen:** DLC; MH.

**25255. PORTENKO, LEONID ALEK-SANDROVICH, 1896-** . New subspecies of birds from the Wrangel Island. (Akademiia nauk SSSR. Comptes rendus

(Doklady), 1944. nouv. ser., v. 43, no. 5, p. 225-28, tables)

Taxonomy and distribution of new subspecies of guillemots, *Uria lomvia* (L.) and *Cepphus grylle* (L.).

**Copy seen:** DLC.

**25256. PORTENKO, LEONID ALEK-SANDROVICH, 1896-** . O vzaimootnoshenii form ovsiñki kamyshevol (*Emberiza schoenicla*) i poliñnoi (*E. pallasi*). (Akademiiñ nauk SSSR. Zoologicheskiiñ muzel. Ezhegodnik 1928, pub. 1929. t. 29, p. 37-81, plates 1-3) **Title tr.:** On relationship between the reed bunting (*Emberiza schoenicla*) and the arctic bunting (*E. pallasi*).

Contains a taxonomic study of 18 forms of *Emberiza schoenicla* (two new) and four of *E. pallasi* (one new), with synonymy, Latin diagnoses of new forms, critical notes, data on nesting, migration, coloring, plumage and distribution. Includes a few species native to northern regions of European Russia, northeastern Siberia and northern Scandinavia.

**Copy seen:** DLC; MH-Z.

**25257. PORTENKO, LEONID ALEK-SANDROVICH, 1896-** , and others. Pervye rezul'taty raskopok Taimyrskogo mamonta i izucheniñ uslovii ego zaleganiñ. (Zoologicheskiiñ zhurnal, 1951. t. 30, vyp. 1, p. 3-16, illus.). **Other authors:** B. A. Tikhomirov, and A. I. Popov. **Title tr.:** First results of the excavation of the Taymyr mammoth and the study of the conditions of its embedding.

Contains a general account of the travel and work of the Academy of Sciences U.S.S.R. expedition under the senior author's direction to excavate the mammoth remains found in 1948, in the northwestern part of the Taymyr Peninsula; with observations on the fauna and vegetation of the mammoth's period and some discussion of the geological history of the Taymyr Peninsula. **Copy seen:** MH-Z.

**25258. PORTENKO, LEONID ALEK-SANDROVICH, 1896-** . Über die taxonomischen Wert der Formen der paläarktischen Bussarde I-II. (Akademiiñ nauk SSSR. Izvestiñ, seriñ 7. Otdelenie fiziko-matematicheskikh nauk, 1929, no. 7, p. 623-52, illus., plates 1-2; (II) no. 8, p. 707-16) **Title tr.:** On taxonomic significance of palaearectic forms of buzzards I-II.

Contains some historical notes, a table for the determination of *Buteo* species (p. 624-27) and critical revision of ten

species and some color forms of buzzards from various palaearectic regions, including *B. vulpinus vulpinus* f. *intermedius* breeding in Arkhangel'sk region, *B. lagopus lagopus* nesting in Swedish and Russian Lapland and Arkhangel'sk province and *B. lagopus pallidus* known from all northern Siberia, with synonymy, data on plumages, migration and breeding areas.

**Copy seen:** MH.

**25259. PORTLAND ART MUSEUM,** Portland, Ore. Native arts of the Pacific Northwest, from the Rasmussen collection of the Portland Art Museum. Introductory text by Robert Tyler Davis. Stanford University Press, 1949. 165 p. illus., 5 col. plates, map. (Stanford art series).

Contains an introduction (p. 3-28) dealing with the trend in European and American art world towards study of primitive cultures; the rich artistic expression developed in the culture of Northwest Coastal Indians; relationship of their art with their physical environment and social customs; art techniques in wood carving, ceremonial costumes and regalia, the art of the Alaskan Eskimos in relation to their migratory life, "the sparseness and severity of their physical environment." Then follow 194 black-and-white and five color illustrations of decorated costume, utensils, ceremonial objects, etc., with brief notes on their origin, material, use, size, etc. Most of the objects were collected by Axel Rasmussen, superintendent of schools in Alaska.

**Copy seen:** DLC.

**25260. POSER, HANS, 1907-** . Die französischen Polarexpeditionen 1948/50; Vorexpedition nach Grönland 1948. (Petersmanns geographische Mitteilungen, 1950. Jahrg. 94, p. 34-36) **Title tr.:** The French Polar Expeditions 1948-50; preliminary expedition to Greenland 1948.

Description of the organization, activities, scientific work and publications of the French Arctic Expedition under P. É. Victor, in West Greenland in the summer of 1948.

**Copy seen:** DG.

**25261. POSLAVSKIĬ, E. V., and Z. G. BAGADKINA.** Ostryi gipervitaminoz A u cheloveka; otravlenie pechen'iu kitov. (Klinicheskaiñ meditsina, 1948. v. 26, no. 11, p. 49-54) **Title tr.:** Acute hypervitaminosis A in man; poisoning by whale liver.

Poisoning by whale (or bear) liver is considered by the authors as hypervita-

minosis A, and can also be produced by concentrates of this vitamin. The clinical symptoms of light and severe poisonings are given and also the results of biopsy material from skin. Since the chemistry of whale liver (and vitamin A concentrates) is not fully known some additional factors may be responsible for poisoning. Bibliography (8 items).

**Copy seen:** DSG.

**POST, LEE BRYANT**, *see* Canada. Dept. of Resources & Development. Northern Administrations. Reindeer herding in Canada. 1950. No. 21103.

**POST, R. L.**, *see* Spealman, C. R., & others. Influence temp. & posture on vol. & comp. blood. 1947. No. 26377.

**25262. POSTEL, A. WILLIAMS.** Dolls of the Netscetum'mint. (Ethnos, Stockholm, 1937. Bd. 2, no. 5, p. 338-39, 4 illus.)

Contains description of two dolls, male and female, preserved in the collection of Mrs. Greville Bathe in Philadelphia, Pa. The dolls came from the Eskimo-Indian cross-bred tribe Netscetum'mint (=sealing-place people) of the Cartwright, Sandwich Bay (Labrador) band. The style in the main is Eskimo, technique and the materials (caribou skin) are Indian.

**Copy seen:** InU.

**25263. POSTNOV, A. D., and R. M. RYSKIN.** Kurortnoe lechenie otmorozhenii. (Sovetskaiia meditsina, 1941. god 5, no. 9, p. 25-26) **Title tr.:** Frostbite therapy at health resorts.

Contains a report based on 167 cases suffering from trophic ulcerations as result of frostbite. Data are offered on condition of patients before and after cure, types of treatment (mud-baths, electro-mud, quartz-light, etc.), methods of treatment, etc.

**Copy seen:** DLC.

**25264. POTEKHINA, L. F.** K obnaru-zheniiu *Ascaris columnaris* Leidy, 1856, u sobolei v SSSR. (Akademiia nauk SSSR. Gel'mintologicheskii sbornik, 1946, p. 221-22) **Title tr.:** On discovery of *Ascaris columnaris* Leidy, 1856, in sables of the U.S.S.R.

Contains a description of *Ascaris columnaris*, a nematode worm causing so-called ascariidosis, found for the first time in alimentary canal of two sables, killed in 1942-43 in the Berezov region, western Siberia.

**Copy seen:** MH-Z.

**POULIN, J. L.**, *see* Kark, R. M., & others. Observations mobile arctic force. Health. 1948. No. 23138.

**25265. POULSEN, CHRISTIAN, 1896-**, and **H. W. RASMUSSEN.** Geological map (scale, 1:50,000) and description of Ella Ø. København, C. A. Reitzel, 1951. 25 p., illus. (incl. sketch map), fold. map. (Meddelelser om Grønland. Bd. 151, nr. 5)

Description of the topography, stratigraphy and structure of Ella Island (72°46'30"-72°54'40" N. 24°45'50"-25°20'30" W.) on the east coast of Greenland, mapped in the summer of 1946 for the Geological Survey of Greenland. Bibliographic footnotes (9 items).

**Copy seen:** DGS.

**25266. POULSEN, ERIK MELLENTIN, 1900-**, and **H. de LESSE.** Pêches planktoniques dans les eaux douces du Groenland occidental. (Paris. Muséum National d'Histoire Naturelle. Bulletin, jan.-mars 1951. Sér. 2, t. 23, p. 99-114, 190-95) **Title tr.:** Plankton collected in fresh waters of West Greenland.

Descriptions of 17 species of Entomostraca (two Euphyllipoda, 12 Cladocera, two Copepoda, and one Ostracoda) from lakes lying between the coast and inland ice in 69°43'-69°46' N. lat., collected by de Lesse during the French Arctic Expedition, 1949. Bibliography (17 items).

**Copy seen:** DSI-M.

**25267. POULTER, THOMAS, CHARLES, 1897-**. The Poulter seismic method of geophysical exploration. (Geophysics, Apr. 1950. v. 15, p. 181-207, diags.)

Technical discussion of a method which had been tested (in part) on the Taku Glacier, Alaska.

**Copy seen:** DGS.

**25268. POULTER, THOMAS, CHARLES, 1897-**. The Poulter seismic method; oilfield techniques in the study of polar ice caps and the contribution of glacier techniques in the discovery of oil and minerals. (Canadian Institute of Mining and Metallurgy. Transactions, 1950. v. 53, p. 174-82. Pub. also in: Canadian mining and metallurgical bulletin, May 1950. v. 43, p. 259-67, illus.)

Contains a definition of the method and detailed description of "the technique surrounding the use of a pattern of charges detonated above the surface of the ground for the purpose of generating

a seismic pulse of controlled frequency for obtaining seismic reflections from subsurface strata." Includes sections on transmission of energy through ice, and on the Stanford Research Institute's studies on Taku glacier, during the American Geographical Society's Juneau Ice Field Research Project in the summer of 1949. **Copy seen:** DGS.

**POULTER, THOMAS CHARLES, 1897-**, see also FitzPatrick, P. J. Antarctic snow cruiser. 1940. No. 21828.

**25269. POWELL, DONALD EDWARD, 1920-**, and H. A. HILDEBRAND. Albacore tuna exploration in Alaskan and adjacent waters—1949. Washington, 1950. 33 p., incl. 9 plates (six maps, diagrs.), illus. (U. S. Fish and Wildlife Service. Fishery leaflet 376) Process print.

Report on a beginning study of the northern limits, habits, food, migration, baits, also the associated birds, fishes and mammals of the albacore (*Thunnus alalunga*), based on exploration carried out in waters between Seattle and Sitka, Aug.-Sept. 1949, on the tuna clipper *Oregon*. Includes notes, data and graphical material on water temperatures; and some discussion of gear and methods of fishing. **Copy seen:** DI.

**POWELL, DONALD EDWARD, 1920-**, see also Ellson, J. G., & others. Explor. fishing exped. N. Bering Sea 1949. 1950. No. 21655.

**POWELSON, J. M.**, see Johnston, A. W., & J. M. Powelson. Development of Mayo mining district, Yukon Territory. 1951. No. 23009.

**25270. POWERS, HOWARD ADORNO, 1904-**. The Aleutian tsunami at Hilo, Hawaii, April 1, 1946. (Seismological Society of America. Bulletin, Oct. 1946. v. 36, p. 355-56)

Tidal wave records from a northern earthquake. **Copy seen:** DGS.

**25271. POWERS, WILLIAM E.** A key for the photo-identification of glacial landforms. (Photogrammetric engineering, Dec. 1951. v. 17, p. 776-79)

Contains a summary of "a key or study procedure by which a photo-interpreter untrained in glaciation or geomorphology can identify correctly the landscape features in a region formerly occupied by continental glaciers."

**Copy seen:** DGS.

**25272. POWERS, WILLIAM E.** Polar Eskimos of Greenland and their environment. (Journal of geography, May 1950. v. 49, p. 186-93)

Summary of "significant aspects" of the ancient mode of life of these natives of northwest Greenland, and changes wrought under the impact of European influences, drawn from published literature cited here only by authors' names. Includes a brief section on effects of World War II on these people.

**Copy seen:** DGS.

**25273. POZDNIĀKOV, E. V.** Molochnost' samok golubykh pestsov. (Karakulevodstvo i zverovodstvo, July-Aug. 1952. v. 5, no. 4, p. 53-55, tables) **Title tr.:** Milk production of the females of the blue polar fox.

Contains an account of the quick growth of the young, especially during the second month of life, and their dependence on an adequate milk supply; the adult female's milk production during consecutive periods of lactation, and the correlation between it and the weight increase of the young; chemical composition of the milk. **Copy seen:** DLC.

**25274. POZDNIĀKOV, E. V., and A. A. FIRSTOV.** VliĀnie rezhima kormleniĀ na perevarimost' kormov y pestsov. (Karakulevodstvo i zverovodstvo, Mar-Apr. 1952. god 5, no. 2, p. 49-51, tables) **Title tr.:** Effect of the feeding régime on the food digestion of arctic foxes.

Contains report on feeding experiments made at the Moscow Fur Institute on animals 7-8 months old, to ascertain what effect a fast-day has on them. Omitting food during one day per week does not increase the food utilization of the animals; such omission is admissible provided the daily ration is increased by one-seventh. Composition of food, data on digestion, rations on cold days, etc., are given. **Copy seen:** DLC.

**25275. POZDNIĀKOV, L. K.** Drevo-vidnāĀ forma kedrovogo stlanĀsa. (BotanicheskiĀ zhurnal, 1952. t. 37, no. 5, p. 688-91, illus.) **Title tr.:** A tree-like form of the dwarf pine.

Contains a study of a rare tree-like form of the shrubby dwarf pine (*Pinus pumila* Rgl.) found in the Aldan River basin in Yakutia, with a description, observations on the rate of growth and a comparison with typical shrubby form of *Pinus pumila*. **Copy seen:** MH-A.

**25276. POZDNIĖEV, A. M.** Lamuty. (*In: Entsiklopedicheskiĭ slovar'*, 1890-1904. v. 17, p. 308-309) *Title tr.:* The Lamuts.

Brief article on this nomadic tribe of Tungus origin (about 3000) living on the tundras of Yakutia, between the Indigirka and Kolyma Rivers, and along the Okhotsk seacoast; their various dialects, racial type and relationship to other tribes; their tents, domestic life and utensils; fishing, hunting and reindeer breeding; seasonal migrations; christianization; attitude toward children; longevity; Russian administration and exploitation. *Copy seen:* DLC.

**25277. PRASOLOV, L. I.** The climate and soils of northern Eurasia as conditions of colonization. (*In: American Geographical Society of New York. Pioneer settlement*, 1932. p. 240-60, maps, tables)

Contain a study of climate, and (mainly) soils, as affecting colonization north of 60° N. lat. in Europe, and north of 50° N. lat. in Siberia. Includes data on the climatic provinces of northern Eurasia and climate unfavorable for agriculture followed by discussion of soils: podzols and their character; agricultural capacity of soils; bogs and podzols of western Siberia and northeast Russia; soils of the Urals, western and eastern Siberia. Bibliography (about 40 items). *Copy seen:* DLC.

**PRATT, J. G.**, see Knox, J. A., & J. G. Pratt. All about Klondike. 1897. No. 23330.

**25278. PRATT, WALLACE EVERETT.** 1885- . Petroleum in the polar areas. (*In: Pratt, W. E., and D. Good. World geography of petroleum*, 1950. *Pub.* as American Geographical Society. Special publication. no. 31, p. 308-318, plate, map)

Brief notes on potential oil resources of the Eurasian Arctic and on the present state of petroleum production and exploration in Alaska (U. S. Naval Petroleum Reserve no. 4) and the Northwest Territories (Norman Wells). *Copy seen:* DGS.

**25279. PRAVDIN, I. F.** Oчерк zapadno-kamchatskogo rybolovstva v svyazi s obshchimi voprosami dal'nevostochnoi rybopromyshlennosti. (Vladivostok. Tikhookeanskiĭ nauchno-issledovatel'skiĭ

institut rybnogo khozĭastva i okeanografii. Izvestiĭa, 1928. t. 1, vyp. 1, p. 169-266, 2 plates) *Title tr.:* A sketch of the West Kamchatka fishing industry in connection with the general problem of that industry in the Far East.

Contains a study of the fishing industry on the western coast of Kamchatka (Okhotsk Sea) based on the author's investigations during his trip to Kamchatka in June-Sept. 1926, with observations on the biology and ecology of various fishes, chiefly *Oncorhynchus gorbusha* (p. 172-201), tables of measurements of *O. gorbusha*, *O. nerka*, *O. keta* and some other species (p. 202-217, data on fishing industry of the region with many statistical tables and notes on the use of Russian and Japanese labor, p. 218-56). Author concludes (p. 257-59) that West Kamchatka is the best fishing area on the Okhotsk seashores; the pink salmon (*Oncorhynchus gorbusha*) is of most importance to the fishing industry, and the Kamchatka crab is of great promise; an attempt at cod fishing near the Kykchik River estuary was quite successful; preventive measures should be taken against dislocation of the river estuaries; river fishing and use of fish for dog food should be reduced; fish and crab canning should be increased; the use of various chemicals should be prohibited in preparation of caviar, the best method being salting; Russian fishermen should be increased and their training improved; Japanese are dominating the industry because of their cheaper and more efficient labor; fishermen's living conditions should be improved to increase migration to Kamchatka; subsidiary industries such as cattle breeding and vegetable gardening must be encouraged. Summary in English, p. 260-66. *Copy seen:* MH-Z.

**25280. PRAVDIN, I. F.** Ozernyi losos' iz basselna r. Kemi, *Salmo salar* morpha *relictus* (Malmgren). (*In: Sbornik N: M. Knipovich*, 1939, p. 209-214, illus.) *Title tr.:* *Salmo salar* morpha *relictus* (Malmgren) from lakes of the Kem' River basin.

Contains a description and a comparative study of this lake salmon discovered in the Kujto Lakes (Karelia) in the upper course of the Kem' River which flows into the White Sea (64°58' N. 34°50' E.). This salmon does not migrate to the sea, and differs also by its smaller size. Summary in English. *Copy seen:* MH-Z.

**25281. PRAVOSLAVLEV, P. A.** Gorgonopsid iz Severo-Dvinskikh raskopok 1923 goda. (*Amalitzkia annae* sp. nov.) Leningrad, Izd-vo Akademii nauk, 1927. 20 p., illus., plates 1-3. (*In: Amalitskii, V. P., and P. A. Pravoslavlev, Sev.-Dvinskije raskopki. no. 4*) **Title tr.:** A gorgonopsid from the Northern Dvina excavations of 1923.

*Contains* the description of *Amalitzkia annae*, a new fossil reptile from Upper Permian deposits at Zavrazhskoe Pusty, Northern Dvina basin, Arkhangel'sk province, excavated in 1923, with dimensions and a systematic discussion.

**Copy seen:** MH-Z.

**25282. PRAVOSLAVLEV, P. A.** Gorgonopsidae iz Severo-Dvinskikh raskopok V. P. Amalitskogo. Leningrad, Izd-vo Akademii nauk SSSR, 1927. 117 p., illus., plates 1-13. (*In: Amalitskii, V. P., and P. A. Pravoslavlev, Sev. Dvinskije raskopki. no. 3*) **Title tr.:** Gorgonopsidae from the Northern Dvina excavations of Prof. V. P. Amalitskii.

*Contains* a discussion of systematic characteristics of *Gorgonopsidae*, historical notes on the study of this group, and a description of fossil remains of five species of *Inostrancevia*, including four new ones, and *Amalitzkia vladimiri* sp. et. sp. nov.; a discussion of systematic position, general appearance, mode of life and geological distribution of these fossil reptiles, excavated from Upper Permian deposits in the Northern Dvina excavations.

**Copy seen:** MH-Z.

**PRAVOSLAVLEV, P. A.,** *see also* Amalitskii, V. P., & P. A. Pravoslavlev. Sev.-Dvinskije raskopki, I-VI. 1921-31. No. 20170.

**25283. PREC, O., and others.** The cardiovascular effects of acutely induced hypothermia. (*Journal of clinical investigation*, Mar. 1949. v. 28, p. 293-300, 4 fig., table) *Other authors:* R. Rosenman, K. Braun, S. Rodbard, and L. N. Katz.

*Contains* a study on heparinized, pentobarbitalized dogs. Respiratory and pulse rate, electrocardiograms and cardiac output, oxygen consumption, blood pressure, hemoconcentration, etc., were recorded. Death during hypothermia was attributable to failure of vasomotor or respiratory centers rather than to heart failure. Bibliography (24 items).

**Copy seen:** DLC.

**25284. PRECAMBRIAN.** Substantial tonnage is indicated in Giant Yellowknife north zone. (*Precambrian*, June 1950. v. 23, no. 6, p. 41)

Report on drilling and drifting in Giant Yellowknife Gold Mines Ltd. 409 North drift, and note on opening of operations by Akaitcho Yellowknife Gold Mines Ltd.

**Copy seen:** DGS.

**25285. PREOBRAZHENSKIĬ, B. V.** O meropiatiâkh po snizheniû falovosti severnykh olenei. (*Sovetskâia zootekhnika*, May 1952. 7 god, no. 5, p. 92-95, illus., tables) **Title tr.:** On measures to reduce the sterility of reindeer.

*Contains* an analysis of low productivity of some herds based on experimental methods. Introduction of males from other localities decreased the sterility as compared with similar herds using their own bucks.

**Copy seen:** DLC.

**PREOBRAZHENSKIĬ, B. V.,** *see also* Bezumov, F. A., & B. V. Preobrazhenskii. Ispol'zovanie pastbishch v kolchoze. 1952. No. 20645.

**25286. PRICE, ART.** Mackenzie River sketchbook. (Beaver, Mar. 1952. Outfit 282, no. 4, p. 27-34; illus., map)

Reproduction of 14 sketches of scenes, settlements and activities in the Mackenzie valley by a Canadian artist.

**Copy seen:** CaMAI.

**PRICE, O. W.,** *see* Metzger, L., & others. Trial by ice. 1952. No. 24314.

**25287. PRICE, R. C.** Alaska can harness its enormous water-power potential. (*Civil Engineering*, Apr. 1949. v. 19, p. 39-41, 87, illus. map)

"Surveys of the major rivers in Alaska by the Bureau of Reclamation have indicated a potential production of hydroelectric power of more than 50 billion kw. hr. annually, or 1/2 of the entire power production by U. S. utilities in 1947. The development of the Eklutna Project would promote industrial development in the rail belt extending from Seward, through Anchorage, Matanuska valley, and Fairbanks. Other proposals include dam sites at Devil Canyon on the Susitna River and at Rampart on the Yukon. A coordinated and comprehensive development of water resources would provide for irrigation, flood control, navigation, power production, and municipal and industrial supplies."—SIPRE. **Copy seen:** DLC.

**25288. PRIGOROVSKIĬ, B. G.** Fauna mġgkikh gruntov litorali guby Dal'ne-Zelentskoĭ. (Akademiĭa nauk SSSR. Murmanskĭa biologicheskĭa stantsiĭa. Dal'niye Zeltsy. Trudy 1948. t. 1. p. 146-54, illus.) **Title tr.:** The fauna of the soft littoral bottom of the Dal'niye Zeltsy Bay.

Author gives a quantitative, qualitative analysis of the fauna of soft bottoms of the small inlet (Oscar Bay) on which the Murmansk Biological Station is located.

**Copy seen:** DLC.

**25289. PRIMROSE, JAN.** Greenland today. (Country guide, Sept. 1951. v. 70, no. 9, p. 65)

Contains remarks on the country's position in U. S. strategic plans, its area, population, known mineral resources, its capital, fish and fisheries, canning industry, hunting, etc.

**Copy seen:** DA.

**PRINTZ, HENRIK, 1888-**, see Hagen, I. S. & H. Printz. Forarbejder til lŧvmosflora, XXI. 1929. No. 22361.

**25290. PRIRODNYE RESURSY ĬZH-NOĬ ĬAKUTH V SVĬAZI S SOTSIALISTICHESKOĬ REKONSTRUKTSIĬ SEL'SKOGO KHOZĬĬSTVA.** Moskva, Sel'khozgiz, 1933. 147 p., illus., maps (1 fold.) **Title tr.:** Natural resources of southern Yakutia in connection with the socialistic reconstruction of agriculture.

Contains a detailed account of the geography, nature and resources of the Aldan district. Natural conditions of agriculture on the Amga River (left tributary of the Aldan at about 62°40' N. 135° E.); topography and soils of the region. Agriculture of Yakutia and the problem of increasing its area and productivity. The study concerns mainly an area 60-65° N. lat. 115-135° E. long.

**Copy seen:** DLC.

**25291. PRIVOL'NEV, T. I.** K biologii *Salmo trutta*. (Leningradskoe obshchestvo estestvoispytateĭ. Trudy, 1934. t. 63, vyp. 3. Otdel. zool., p. 311-23, illus.) **Title tr.:** On biology of *Salmo trutta*.

Contains an investigation of the biology of *Salmo trutta* carried out in the basin of the White Sea (Kovda and Niva Rivers of Kola Peninsula) in the summer of 1932, with data on migration, rate of growth, food and reproduction. Summary in German.

**Copy seen:** DLC; MH-Z.

**25292. PROBST, ABRAM EFIMOVICH, 1903-**. Sotsialisticheskoe razmeshchenie dobychi i potrebleniĭa topliva v SSSR. Moskva, Gosplanizdat, 1950. 131 p., map, diagrs. **Title tr.:** The socialistic distribution of extraction and use of fuels.

This monograph includes arctic areas, as regards both production and consumption of coal, peat, wood. It presents account of conditions in czarist Russia and the achievements of the Soviet era; reconstruction and redistribution of the fuel-extracting industries; discussion of fuel consumption from the regional viewpoint; and future aims in reconstructing the Soviet fuel-energy economy, etc.

**Copy seen:** DLC.

**25293. \*PROKOF'EVA, E. D.** Ornament sel'kupov. (Akademiĭa nauk SSSR. Institut ětnografii. Kratkie soobshcheniĭa, 1950. t. 10, p. 29-39, 8 illus.) **Title tr.:** The ornament of the Sel'kups.

Contains description of the so-called "ribbon-woven" ornaments of this Ostyak-Samoyed group in the Turukhansk region between the upper Taz and Yenisey Rivers; based on material collected by the author in 1925-28 and 1932-33.

**Copy seen:** DSI-M.

**25294. PROKOF'EV, G. N.** Ėtnogoniĭa narodnostei Ob'-Enisejskogo basseĭna (nentsev, nganasanov, ěntsev, sel'kupov, ketov, khantov i mansov). (Sovetskĭa ětnografiĭa. Sbornik stateĭ, 1940. t. 3, p. 67-76) **Title tr.:** The ethnic origin of peoples of the Ob'-Yenisey basin (Samoyeds, Tawgis, Yenisey-Samoyeds, Ostyak-Samoyeds, Yeniseians, Ostyaks and Voguls).

Contains discussion of the origin of these peoples; they are a cross between the tribes which came from the South (i. e. Ugrie tribes, Sayan Samoyeds) and the aborigines of the far North in prehistoric times. The author claims to have established the existence of two such very old groups: the eastern group Tian and the western group Koum; the first group contributed to the formation of Samoyeds and Asiatic Eskimos; the linguistic and tribal affiliation of Koum remains an open question. The author based his conclusions on the studies of linguistics, ethnography, archeology, anthropology and folklore. Summary in French.

**Copy seen:** DLC.

**25295. PROKOF'EV, G. N.** K voprosu o perekhodnom zaloge v samoedskikh

\*No. 25293, 25296-25299, same author.

ĭazykakh, 1934 g. (*In: Akademiĭa nauk SSSR. Institut ĕtnografii. Pamĭati V. G. Bogoraza, 1865-1936, pub. 1937, p. 309-323*) **Title tr.:** On the problem of the transitive voice in Samoyed languages, 1934.

The problem is: in which cases does a transitive verb take the suffixes of the so-called objective conjugation (identical with the possessive suffixes attached to the nominative in the possessive declension), and when does it take the personal suffixes of an intransitive verb (identical with the predicative suffixes of nouns). After careful analysis of texts the author gives three useful rules. In his opinion the polysynthetic and agglutinative verb structure are in a complicated struggle with one another in Samoyed languages.

**Copy seen:** DLC.

**25296. \*PROKOF'EVA, E. D.** Ėneĕskit shamanskii kostĭum. (Akademiĭa nauk SSSR. Muzel antropologii i ĕtnografii. Sbornik, 1951. t. 13, p. 125-53, 32 illus.) **Title tr.:** The Samoyedic shaman costume.

*Contains* description of the ceremonial apparel of the shamaness Savone, belonging to the Bal group of Ėnĕsy or Samoyeds who wander between Potapovskoye and Igarka on the Yenisey. The apparel which was secured in 1938 and placed in Muzel antropologii i ĕtnografii in Leningrad, consists of the following parts: coat, mittens, breastplate, bandage for eyes, head-gear (crown), boots, drum and drumstick. Three degrees of shamans are found among these Samoyeds: (1) one who can communicate with the heavenly spirits, has a special costume, drum and staff; (2) one who protects the people from the evil spirits, he has drum only; and (3) mediator with the world of the dead, who acts at the burial ceremonies, but has no costume, drum, or staff. The shamaness Savone belonged to the first or highest degree. The Ėnĕsy people (numbering about 400 persons in 1926) live on the right bank of the Yenisey River, around Dudinka and Golchikha, and on the shores of Yeniseyskiy Gulf.

**Copy seen:** DLC.

**25297. PROKOF'EVA, E. D.** K voprosu o sotsial'noi organizatsii sel'kupov; rod i fratriĭa. (Akademiĭa nauk SSSR. Institut ĕtnografii. Trudy, 1952. Novaĭa seriĭa, t. 18, Sibirskii ĕtnograficheskiĭ sbornik, p. 88-107) **Title tr.:** On the question of

the social organization of the Sel'kup; clan and phratry.

*Contains* description of kinship and phratry organizations among the Sel'kup (Ostyak-Samoyeds) in the region of Turukhansk and on the Tym River, as it was before the Revolution. Author's information is drawn from the literature and from accounts of the old people as noted during the G. N. and E. D. Prokof'ev expeditions of 1925-28 and 1931-32. Every clan is called by the name of a bird or animal.

**Copy seen:** DLC.

**25298. PROKOF'EVA, E. D.** Kostĭum sel'kupskogo (ostĭako-samoedskogo) shamana. (Akademiĭa nauk SSSR. Muzel antropologii i ĕtnografii. Sbornik, 1949. t. 11, p. 335-75, 38 illus.) **Title tr.:** Costume of a Sel'kup (Ostyak-Samoyedic) shaman.

*Contains* an account of Samoyedic religion in general and in particular the activities of shaman, his costume, drum, breast-plate, iron crown, staff, and other paraphernalia which are richly ornamented. The materials were collected in 1925-28 from the Tazovsk District on the River Turukhan and its tributaries.

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**25299. PROKOF'EVA, E. D.** Mamont po predstavleniĭam sel'kupov. (Akademiĭa nauk SSSR. Muzel antropologii i ĕtnografii. Sbornik, 1949. t. 11, p. 159) **Title tr.:** The mammoth in the imagination of the Sel'kup.

*Contains* notes on Ostyak-Samoyed folk beliefs on the mammoth living underground and having the shape of a bear, having a horn, etc.; large pike in lakes of the Tym River basin are called "mammoth pike" and receive sacrifices.

**Copy seen:** DLC.

**25300. PROKOPCHUK, D. T.** Sravnitel'naĭa oĕsenka razlichnykh metodov medikamentoznogo lecheniĭa otmorozeniĭ. (Sovetskaiĭa meditsina, 1944. god 8, no. 12, p. 10-11) **Title tr.:** Comparative evaluation of various methods of medicinal therapy of frostbite.

*Contains* a study on specific causes, degrees and therapy of 250 cases of frostbite. None of the medicinal methods applied in second- and third-degree frostbite proved specific, but alcoholic solutions of dyes (Brilliant-Green) and Vishnevskii's balsam ointment gave good results in combatting infection and hastening epithelization; such preparations as iodine, silver nitrate, etc.; had opposite

\*No. 25293, 25296-25299, same author.

effects. The essential requirement for any method is its stimulating effect on epithelization which is the essence of wound-healing. **Copy seen:** DLC.

**PROSKURNIKOVA, T. A.,** see Kaspárova, S. A., & T. A. Proskurnikova. Carbohydrates winter hardiness red clover. 1944. No. 23158.

**25301. PROTANSKIĬ, V. V.** Iz rabot severnoi opytnoi stantsii po ustroistvu lediannykh dorog. (Lesopromyshlennoe delo, 1930. v. 9, no. 1, p. 25-30 incl. illus. graphs) **Title tr.:** From the work of the Northern Experimental Station on constructing ice roads.

"Ice roads are primarily constructed in forests for the transportation of lumber by sled. The route is leveled by packing snow, branches and stumps into depressions, and covering a 3 to 4-m. wide roadbed with 60 to 80 cm. of snow. Triangular scrapers are used to compact the snow to uniform densities of 0.4 to 0.6 gm/cc. A rut-cutter with heated runners thaws 2 parallel ruts into the road to facilitate sled traffic. Water is poured into the ruts at nights when temperatures are below  $-10^{\circ}\text{C}$ . to maintain a slick surface."—SIPRE.

**Copy seen:** DLC.

**25302. PROZOROV, ALEKSEĬ A.** Ekonomicheskii obzor Okhotsko-Kamchatskogo kraia. S.-Peterburg, Tip. Trud, 1902. xi, 388 p., fold. tables, 3 fold. maps. **Title tr.:** Economic survey of Okhotsk-Kamchatka province.

In this study based partly on his own observations and investigations, the author gives a brief introductory survey of Russian expansion and colonization in the Far East, p. 1-51; description of western coastal regions of Okhotsk Sea (Okhotsk, p. 52-84, Udskil Ostrog, Chumulkan and Shantar Islands, p. 85-102, Ayan, p. 103-122, Ola, p. 123-32, Gizhiga, p. 133-68), Kamchatka (p. 169-285: Ust'-Kamchatskoye, p. 185-86, Petropavlovsk, p. 187-224) and Komandorskiye Islands (p. 286-348). Includes detailed description of selected places, and data on material (mainly raw) resources, fishing, fur-animal hunting, commerce, activities of the Russian and American merchants, prices, communications; the internal and international measures for control of fishing and hunting and preservation of fur-bearing animals; competition of Ameri-

cans and Japanese. Bibliographical footnotes.

**Maps** of Okhotsk-Kamchatka province, scale 1:10,500,000; of Bering Sea and the northern part of the Pacific, showing migration routes of the Asiatic and American fur-seal herds of the western part of Bering Sea, showing the catch from illegal fur-seal hunting in 1892-97 (two last maps taken from "Report of fur-seal investigation"). **Copy seen:** DLC.

**25303. PRYTKOVA, N. F.** Zhertvennoe pokryvalo kazymyskikh khantov. (Akademii nauk SSSR. Muzei antropologii i étnografii. Sbornik, 1949. t. 11, p. 376-79, col. plate) **Title tr.:** The sacrificial rug of the Kazym Ostyaks.

Contains description of a small fox-skin rug, the skin side richly painted (original in the Ostyak-Vogulian District Muzeum); with account of how it is made and used. **Copy seen:** DLC.

**PSHONIK, A. T.,** see Arkhangel'skaia, N. A., & others. K fiziologii kholodovogo staza. 1943. No. 20305.

**PTUSHENKO, E. S.,** see Dement'ev, G. P., & others. Ptitsy Sovetskogo Soiuza, t. 1. 1951. No. 21415.

**PTUSHENKO, E. S.,** see also Dement'ev, G. P. Rukovodstvo k opred. ptits SSSR. 1948. No. 21416.

**25304. PUBLIC WORKS.** Designing sewers for the sub-Arctic. (Public works, Sept. 1950. v. 81, no. 9, p. 1-44 incl. illus.)

"Sewer systems in permafrost regions require special design principles. Sewers must not be laid in or near the center of the street, because consolidation of the roadbed under traffic during spring thaw adversely affects sewer alignment. Sewers must not be laid directly on permafrost without adequate insulation, or in frost-susceptible soil. The pipes should be at least 8 in. wide to avoid closure by frost accumulations. All pipes should consist of wooden staves to resist permanent deformation or breakage. The effects of house vents and ground temperatures on the freezing of sewers are problems still in the experimental stage."—SIPRE.

**Copy seen:** DLC.

**25305. PUCKETT, LOWELL M.** Alaska's public lands. (Our public lands, Oct. 1951. v. 1, no. 3, p. 3, 6 illus.)

Brief statement of problems facing the

U. S. Bureau of Land Management in Alaska; land uses there.

**Copy seen:** DGS.

**25306. PUNNETT, REGINALD CRANDALL, 1875-** . On the nemerteans of Norway. (Bergen, Norway. Museum. Aarbok 1903. no. 2, p. 1-35, plates 1-2)

*Contains a study of marine flat-worms (Nemertinea) of Norwegian waters, based mostly on collections made by Dr. Nordgaard and the author in 1901 and 1902 in the fiords around Bergen but including a few species from northern waters, with a synopsis of 34 species, including diagnoses of 12 new species and seven not previously recorded as Norwegian: *Lineus scandinaviensis*, *L. cinereus*, *Eunemertes nordgaardi* and *Amphiporus magnus* n. spp. and two other species were collected in northern Norwegian waters (66°-70° N.)*

**Copy seen:** DLC; MH-Z.

**PURDUE UNIVERSITY,** *see* U. S. Library of Congress. Technical Information Division. Annotated bibliography on snow, ice & permafrost. 1951-52. No. 26960.

**PUSHCHAROVSKIĬ, IŬ. M.,** *see* Vakhrameev, V. A., & IŬ. M. Pushcharovskii. Novye dannye Vihŭtskol vpady. 1952. No. 27018.

**25307. PUSHKAREV, N.** Rybolovstvo v Severo-Zapadnoi oblasti. (Khozŭfstvo Severo-zapadnogo kraĭa, June-July, 1927. v. 4, no. 6-7, p. 114-25) **Title tr.:** Fisheries of the Northwestern Province.

*Contains a survey of this industry in Karelia and Kola Peninsula: the extent of the fishing areas (fresh-water and marine); amount of fish caught in these waters (since 1919) and numbers of fishermen employed in successive years and in individual fishing areas. White and Barents Sea are included.*

**Copy seen:** DLC.

**25308. PUSHKINSKAĬA, L. V.** Materialy po antropologii zyrŭan Sysol'skogo kraĭa. (Antropologicheskii zhurnal, 1926. t. 14, vyp. 3-4, p. 78-80, 4 tables) **Title tr.:** Materials on the anthropology of the Zyryans of Sysolsk district.

*Contains anthropometric data on about 30 men and 11 women from 17 to 38 years of age, pupils of the high schools in Moscow in 1923-24; the measurements are compared with those made by V. P. Nalimov among the Zyryans and by*

V. V. Bumak among the Mordvins. Summary in English. **Copy seen:** DSL.

**25309. PUTKISTO, KALLE.** Hevostalulteiden hottokalustosta. (Metsä-taloudellinen aikakauslehti (Finska forstföreningen), 1950. v. 65, no. 1, p. 20-24, illus., diags.) **Title tr.:** Maintenance of horse-roads in winter.

*Contains survey of the road-clearing and other maintenance equipment used on snow and the roads under varying snow conditions for logging purposes. Results of the author's "research carried out by the Wood Studies Section of the Central Association of Finnish Wood-working Industries and of other experiments undertaken with a view to establishing what road maintenance equipment is most suitable for the different types of horse-roads used in Finland in the winter." Summary in English.*

**Copy seen:** DA.

**25310. PUTKISTO, KALLE.** Moottoridusta puutavaran rekikuljetuksesta. (Metsä-taloudellinen aikakauslehti (Finska forstföreningen), 1950. v. 65, no. 12, p. 393-96, illus.) **Title tr.:** On using machines to pull log-laden sleighs.

*Discussion of the various machines and sledges used in the transport of logs to waterways and/or mills, under conditions of heavy snow; remarks on horses vs. mechanized transport in logging; certain specifications for the machines.*

**Copy seen:** DA.

**25311. PUTNAM, DONALD F.** Pedogeography of Canada. (Geographical bulletin, 1951. no. 1, p. 57-85, illus., maps, diags.)

*Contains outline of soil surveys made in Canada; description of the soil zones including the northern (p. 79-81): a tentative statement of potential farm lands, problems of development, need for scientific investigation and note on Fort Norman and Aklavik localities.*

**Copy seen:** DLC.

**25312. PUTNAM, WILLIAM LOWELL.** Around Russell Fiord. (American alpine journal, 1950. v. 7, p. 436-40)

*Casual notes on glacier reconnaissances for climbing in the country back of Yakutat Bay in southeast Alaska.*

**Copy seen:** DGS.

**25313. PUTNAM, WILLIAM LOWELL.** Snow conditions. I. The individual crystal and its evolution. (Appalachia, June 1950. v. 28 p. 56-61, diags.)

Simple presentation of fundamental information on the nature, formation, factors in falling, creation of snow conditions on the ground, and typical "aggregations" of snow. The first of a projected series of articles on snow and avalanching. Bibliography (6 items).

**Copy seen:** DGS.

**25314. PUTNAM, WILLIAM LOWELL.** Submerged ice crystals in glaciers. (Journal of glaciology, Oct. 1950. v. 1, p. 456)

Letter to the editor concerning crystals "growing from the edges of the holes towards the centers and . . . equally well developed on all sides of the holes, even under overhangs and on the flat portions . . . always elongated in the direction of growth," observed in the ablation zones of three glaciers in Alaska.

**Copy seen:** DGS; DSI-M.

**25315. PUZAKOV, N. A., and others.** Vliianie promerzaniia na ustoiichivost' dorozhnykh osnovani. Moskva, Dorizdat, 1948. 127 p., diags. **Title tr.:** The effect of freezing on the stability of roadbeds.

**Other authors:** R. Rükli and A. Dürker.

"A critical review is presented of studies in the U.S.S.R. and other countries concerning frost action on roadbeds. The Rükli laboratory investigations on frost control measurements include studies of various types of ice, the mechanics of rise in water level, temperature relationships in soils and the theoretical aspects of swelling. The field investigations consisted of actual measurements and the analysis of the data. Dürker's laboratory studies concern the properties of loose soils at freezing temperatures. The result of both studies show that excessive heaving is accompanied by segregation of ice in layers or lenses. The factors affecting ice segregation are texture and composition of the soil water supply, rate of heat loss, and surface load. Proper drainage and the substitution of a thick layer of coarse material in the subgrade are suggested to reduce excessive heaving." Bibliography (12 items).—SIPRE.

**Copy seen:** DLC.

**25316. QUAY, W. B.** Observations on mammals of the Seward Peninsula, Alaska. (Journal of mammalogy, Feb. 1951. v. 32, p. 88-89, diags., sketch map)

Report on "the distribution, life history, and ecology of mammals encountered" during a field-trip with the U. S. Geological Survey in the summer of 1948, mostly

in the region of Nome, the south coast of the peninsula and the Imuruk Lake area. Description of these regions, and an account of seventeen species (lemmings, mice and voles being most abundant) with a list of sixteen localities. Bibliography (12 items).

**Copy seen:** DGS; DSI-M.

**QUERVAIN, MARCEL de, see DeQUERVAIN, MARCEL.**

**QUIMBY, GEORGE IRVING, see Martin, P. S., & others.** Indians before Columbus. 1947. No. 24201.

**25317. QUINN, H. A.** Geology and gold deposits, Giauque Lake, Yellowknife. (Canadian mining journal, Oct. 1950. v. 71, no. 10, p. C55-C69, illus., 6 sketch maps)

Detailed description of an area of about eight square miles at 63° N. 114° W., based on detailed geologic mapping by the author in 1946 and 1949, and on the published work of others. Descriptions of the rocks, structural geology, and gold deposits, is given and notes on Discovery Yellowknife Gold Mine, Viking Yellowknife Gold Mine and other mining properties; with a bibliography (16 items).

**Copy seen:** DGS.

**25318. QUINTANILLA, RAMON, and others.** Studies on frost-bite with special reference to treatment and the effect on minute blood vessels. (American journal of physiology, Apr. 1947. v. 149, p. 149-61) **Other authors:** F. H. Krusen, and H. E. Essex.

Contains a report on rabbits whose feet have been immersed in freezing mixtures of -12° to -50° C.; also on microscopic observations of the blood vessels in the ears of rabbits during and following freezing. The author is critical of frost-bite therapy, especially that following severe damage; claims that heparin saved frozen feet of rabbits have not been substantiated by him. Bibliography (20 items).

**Copy seen:** DLC.

**QUINTON, W. E., see Carlson, L. D., & others.** Report studies acclimatization winter 1948-49. 1949. No. 21125.

**QUIRING, DANIEL P., see Crile, G. W., & D. P. Quiring.** Indian & Eskimo metabolisms. 1939. No. 21309.

**QUISENBERRY, BENSON F., 1920- , see Gjullin, C. M., & others.** Effect some insecticides on black fly larvae. 1949. No. 22127.

**25319. QVIGSTAD, JUST KNUD, 1853-** . Das anlautende *h* im Lappischen. (Finnisch-ugrische Forschungen 1946. Bd. 29, p. 37-51) *Title tr.*: The *h* as a first letter in Lapp.

The Lapps do not like to start a word with an *h*, and often this is omitted, especially in loanwords.

*Copy seen:* DLC; InU.

**25320. QVIGSTAD, JUST KNUD, 1853-** . Beiträge zur Vergleichung des verwandten Wortvorrathes der lappischen und der finnischen Sprache. (Finska vetenskaps-societeten, Helsingfors. Acta Societatis scientiarum fennicae, 1883. v. 12, p. 113-240) *Title tr.*: Contributions to a comparison of the store of related words of the Lappish and Finnish languages.

Contains a grammatical section dealing with a comparison of vowels and consonants in word roots and word endings in both languages and common suffixes of various types. This is followed (p. 159-232) by a vocabulary of Lappish words with their Finnish equivalents. Appendices contain lists of Lappish words of Nordic, Mordvinian or Cheremissian origin.

*Copy seen:* DLC.

**25321. QVIGSTAD, JUST KNUD, 1853-**, and K. B. WIKLUND. Bibliographie der lappischen Literatur. Helsingfors, Suomalais-ugrilainen seura, 1899. 162 p. (Suomalais-ugrilainen seura. Toimituksia, 13) *Title tr.*: Bibliography of Lapp literature.

Contains a survey of publications in Lappish, of which a great many have been produced, although their literary value is not high. They are mostly translations of religious works, government decrees, elementary textbooks, and almanacs. The present authors have arranged their bibliography according to the countries where the Lapp books were published: Sweden (196), Norway (180), Finland (17), and Russia (3), a total 396 publications from A. D. 1619 to Oct. 1899. Short biographies of the authors and translators of the Lapp books are added (p. 136-46), also a bibliography of grammars, dictionaries and linguistic treatises on Lappish in several languages (p. 147-59).

*Copy seen:* DLC; InU.

**25322. QVIGSTAD, JUST KNUD, 1853-** . Dobbeltkonsonant i forlyd i lappisk. (Studia Septentrionalia, 1945. v. 2, p. 193-212) *Title tr.*: The double consonant in initial sounds in Lapp.

Whilst in Samoyed and in the Finno-Ugrian primitive languages no words begin with a double consonant, the southern Lapp dialects have many genuine words starting thus. It may be concluded that double consonants in initial sounds and a special vocabulary of the southern Lapps are both due to the influence of the Proto-Lapp language which they used before they adopted a Finno-Ugrian language.

*Copy seen:* DLC; InU.

**25323. QVIGSTAD, JUST KNUD, 1853-**, and G. SANDBERG. Lappische Sprachproben. Aufgezeichnet von J. Qvigstad und G. Sandberg. Ins Deutsche übersetzt und mit Anmerkungen versehen von J. Qvigstad. (Suomalais-ugrilainen seura. Aikakauskirja, 1888. 3, p. 1-110+[3] p. (illus. & corrigenda)) *Title tr.*: Lappish texts, recorded by J. Qvigstad and G. Sandberg; translated into German with notes by J. Qvigstad.

Collection of Lapp traditions and tales, those from Inari and Skolte Lapp, and Sydvaranger recorded by G. Sandberg, the remainder by J. Qvigstad. Among others are traditions with historical background about the Chudes, and various stories concerning Stallo. Supplement contains remarks by the Lapp teacher, Lars Olsen and drawings of the magic drum of the Lapps.

*Copy seen:* InU.

**25324. QVIGSTAD, JUST KNUD, 1853-** . Die Sprache in Tornaues' Manuale lapponicum. (Suomalais-ugrilainen seura. Toimituksia, 1933. no. 67, p. 336-50) *Title tr.*: The language of Tornaues' *Manuale lapponicum*.

In this handbook published in Stockholm 1648, Tornaues, who served as pastor in various Lappmark parishes, translated religious texts from Swedish into a kind of Lappish midway between the different dialects, yet understandable by Lapps in various localities. Qvigstad here gives a linguistic analysis of Tornaues' "language" in comparison with that of a standard modern textbook on Lappish by K. Nielsen, *Lehrbuch der lappischen Sprache*.

*Copy seen:* DLC; InU.

**25325. QVIGSTAD, JUST KNUD, 1853-** . Ueber die lappischen Ortsnamen im Amt Tromsø. (Suomalais-ugrilainen seura. Aikakauskirja, 1913-18. v. 30, no. 29, p. 1-7) *Title tr.*: Lapp place names in the district of Tromsø.

Contains review of place names in a region with mixed Norwegian and Lapp population. As a rule, the places are named in the language of the inhabitants: Norwegian names prevail along the coast and on the islands, Lapp names inland.

**Copy seen:** DLC; InU.

**25326. QVIGSTAD, JUST KNUD, 1853-** . Uebersicht der Geschichte der lappischen Sprachforschung. (Suomalais-ugrilainen seura. Aikakauskirja, 1899. v. 16, no. 3, p. 11-29) **Title tr.:** A survey of the history of the Lappish linguistic research.

Contains review of books in Lappish and of works on the Lapp language from 1619 (Anderson Rhen's first book in Lappish) to 1887 (Lars J. Haetta's Lappish dictionary), chiefly works of missionaries and priests.

**Copy seen:** DLC; InU.

**QVIGSTAD, JUST KNUD, 1853-** , see also Larsen, A. Om Sjøsamene. 1950. No. 23667.

**25327. RABOT, CHARLES, 1856-1944, and P. VITTENBURG.** Poliarnye strany, 1914-1924 gg. S kartoi plavanii ékspeditsii v Severnom Ledovitom okeane s 1914 po 1924 gg., sost. A. M. Lavrovym. Lenin-grad, Redaktsionno-izdatel'skii otdel Morskogo vedomstva, 1924. xv, 182 p., plates, 35 maps (part fold.), table. **Title tr.:** The polar regions, 1914-1924. With a sailing-chart of the expeditions in the north polar ocean during the period 1914-1924 by A. M. Lavrov.

This informative work deals with expeditions, research and scientific results of the latter, for the period 1914-24. The section on the Arctic (p. 1-123) contains chapters on the arctic seas; northern Alaska and the Parry Islands; Greenland; Iceland; Spitsbergen; Kola Peninsula and Polar Ural; Novaya Zemlya and Franz Josef Land; Kara Sea and the Northern Sea Route. In each chapter the principal expeditions in the region during this decade are described, noting personnel, locality (with numerous sketch maps), work done and (in footnotes) resultant publications. *Fold. map* at end of volume shows tracks of expeditions in Russian arctic waters in this period.

**Copy seen:** DLC.

**RABOT, CHARLES, 1856-1944, see also** Guerne, J. de., & J. Richard. Note sur entomostracés de Nordland. 1889. No. 22272.

**RABOT, CHARLES, 1856-1944, see also** Richard, C. Note sur pêches. 1889. No. 25520.

**RABOT, CHARLES, 1856-1944, see also** Simon, E. Arachnides recueillis au Groenland. 1889. No. 26210.

**RABOT, CHARLES, 1856-1944, see also** Simon, E. Liste des arachnides recueillis en Laponie. 1887. No. 26211.

**25328. RADIN, PAUL, 1883-** , and **LOUIS H. GRAY.** Eskimos. (In: Hastings, James, ed. Encyclopaedia of religion and ethics, 1912. v. 5, p. 391-95)

Contains sketch of nine well-marked ethnological groups of Eskimos and their location, physical characteristics, language, material culture, occupations, social organization and (especially) religion.

**Copy seen:** DLC; InU.

**25329. RADIO FRONT,** organ Vsesoiuznogo komiteta po radiofizikatsii i radioveshchaniu SSSR. Moskva, 1925-current.

Popular technical journal (with title *Radio, Radio front, Radio vsem*, in earlier years and since 1946 known as *Radio*) published monthly (frequency varies). Includes numerous short articles on radio in arctic regions of the U.S.S.R.: technical problems, recent achievements, use of radio in current activities in the North, etc., particularly through the 1930's, but only occasionally in post-World War II years. **File seen:** DLC v. 1-17 (1925-41), 19-24 (1946-1951) in progress.

**25330. RADOSHKOVSKIĬ, OKTAVIIĬ IVANOVICH, 1820-1895.** Énumération des espèces de Chrysides de Russie. (Russkoe éntomologicheskoe obshestvo, St. Petersburg. Trudy, 1865-66, pub. 1866. t. 3, p. 295-310) **Title tr.:** An enumeration of the species of Chrysidæ of Russia.

Contains a systematic list of 58 species of hymenopterous family Chrysidæ inhabiting Russia, with brief Latin diagnoses of some species by E. F. Eversmann, and descriptions of two new species by the author; includes *Chrysis fulgida* and *C. ignita* native to Kamchatka Peninsula.

**Copy seen:** MH-Z.

**25331. RAE, R. W.** Arctic experiences, or Life begins at forty below. [Toronto] 1950. p. l., 12 numb. l. (Royal Meteorological Society, Canadian Branch, Papers. v. 1, no. 2) mimeographed.

A lively account of living conditions at Resolute on Cornwallis Island, where the

author worked at the meteorological station established in 1947; remarks on the water-supply system, heating equipment, clothing, amusements, etc., of the personnel; full notes on weather conditions; description of the island's landscape and seasonal fauna; and remarks on extreme cold weather problems with motors, instruments and the making of observations. Also abstracted in: *Meteorological abstracts and bibliography*, Nov. 1951. v. 2, no. 11, p. 882. **Copy seen:** CaMAI.

**25332. RAE, R. W.** Arctic weather stations. (Weather, London, Jan. 1952. v. 7, no. 1, p. 3-6)

Popular account of life and weather at the U. S.-Canadian stations in arctic Canada. **Copy seen:** DLC; DWB.

**25333. RAE, R. W.** Climate of the Canadian Arctic Archipelago. Toronto, 1951. 90 p. 15 fig. (Canada. Dept. of Transport. Meteorological Division)

Contains historical survey of early explorers' weather records, followed by "description of climatic controls (latitude, air pressure, distribution of land, water, ice and topography) and of the distribution of climatic elements. Data (averages for each month and the whole observation period) are added for 20 stations with observation periods from two to over 20 years (average about 10 years) for temperature, precipitation, cloudiness, visibility and wind. Charts are given for mean pressure and temperature distribution."—*Meteorological abstracts and bibliography*, May 1953. v. 4, no. 5, p. 599.

"... Most of the water surfaces are frozen over in winter except Hudson Strait. The maximum thickness of new ice formed in one winter is usually less than six ft. The amount of winter precipitation, the tendency of the snow to drift, the reduction of visibility with blowing snow, and the phenomenon of arctic white-out [man's loss of sense of perspective under certain cloud and snow conditions] are discussed. The reduction of visibility by blowing snow is directly related to surface wind velocity. Good visibility exists with wind velocities under 15 m.p.h. but reaches zero with wind velocities above 40 m.p.h. . . ."—*SIPRE*. Reviewed by F. K. Hare in *Arctic* Oct. 1952. v. 5, no. 3, p. 189-90.

**Copy seen:** CaMAI.

**25334. RAE, R. W.** Joint arctic weather project. (Arctic, May 1951. v. 4, p. 18-26, illus., sketch map, tables)

Historical background of weather observation in Canada, and brief account of U. S. and Canadian cooperation in establishing the present network of five arctic weather stations in the Canadian Arctic Islands. Description of methods of preliminary reconnaissance, choice of sites, air transport of supplies, special problems (fire protection, winter water supply, and morale); scientific program and climatic conditions at these far northern stations, and (in general) the system of communication used for transmitting data. The stations of the network discussed are: Eureka on Ellesmere Island (80°13' N. 86°11' W.), Resolute on Cornwallis Island (74°41' N. 94°55' W.), Isachsen on Ellef Ringnes Island (78°47' N. 103°32' W.), Mould Bay on Prince Patrick Island (76°14' N. 119°50' W.) and Alert on Ellesmere Island (82°29' N. 62°15' W.). Also abstracted in: *Meteorological abstracts and bibliography*, Nov. 1951. v. 2, no. 11, p. 879.

**Copy seen:** DAI; DLC.

**RAE, R. W.,** see also Manning, T. H., & R. W. Rae. Tidal observ. arctic waters. 1950. No. 24169.

**25335. RÄNK, GUSTAV.** Grundprinciper för disponeringen av utrymmet i de lapska kåtorna och gammerna. (Folk-Liv, 1948-49, v. 12-13, p. 87-111, 13 illus.) **Title tr.:** The main principles of the disposition of space in Lapp huts and tents.

Contains discussion of the division of the ground or floor space and its functional significance. Summary in English.

**Copy seen:** InU.

**25336. RÄNK, GUSTAV.** Die Hausgottheiten der Frauen und das Geschlechtstabus bei den nordeurasischen Völkern. (Ethnos, Stockholm, 1948. Bd. 13, no. 3-4, p. 153-70, 4 illus.) **Title tr.:** The household deities of women and sex tabu among the north Eurasian peoples.

Contains account of Samoyed and Tungus womenfolk who have their own deities which take care of health of mother and her baby, help at birth and during the menses. Women's idols are tabu for men.

**Copy seen:** DSI-M; InU.

**25337. RÄSÄNEN, MARTTI.** Beiträge zu den altaisch-slavisch Berührungen. (Suomalais-ugrilainen seura. Toimituksia, 1950. v. 98, p. 125-31) **Title tr.:**

Contributions to the Altaic-Slavic contacts.

In section 2, the word for "squirrel" (also with the meaning "money" from the time pelts came into use as currency of exchange) is shown to have been borrowed from the Ob-Ugric languages into various Turkish languages, then into Tungus and Mongol, and from Mongol further into Russian. Section 3 shows the Russian *tundra* to derive from a western Tungus word which means "earth". Russian *taigá* also is of Altaic origin, having been borrowed from the Turcic dialects of Siberia which in their turn have taken it from Mongol.

**Copy seen:** DLC; InU.

**25338. RÄSÄNEN, VELL.** Kemia jākäläsystematiikan palveluksessa. (Luonnon tutkija, 1941. v. 45, no. 5-6, p. 168-78) **Title tr.:** Chemistry in the service of lichen systematics.

Contains discussion of various scientists' work on the classification of lichens by chemistry and microscope (also taste and smell). Author notes that lichen investigations are less complete than moss studies; that determination of some lichen species, similar in appearance and at certain stages difficult to differentiate by visual methods, is dependent on knowledge of their chemical constituents; describes methods of so differentiating some lichen species. Bibliography (15 items).

**Copy seen:** DLC.

**25339. RAINEY, FROELICH GLADSTONE 1907-** Alaskan highway an engineering epic. (National geographic magazine, Feb. 1943. v. 83, p. 143-68, incl. 6 p. of illus., 3 maps (2 double))

Popular account of the U. S. Army Corps of Engineers' remarkably swift work in building the Alaska Highway in 1942. Author describes problems of mosquitoes, mud and muskeg, the use of local timber and Indian guides, the way in which raw recruits met the difficulties of bad climate, entertained themselves, and maintained their equipment. Illus. include U. S. Army photo-reproductions of muskeg, forest, motorized equipment and camp life, and useful maps of the Alaska Highway system.

**Copy seen:** DGS; DLC.

**RAINIER, DOROTHY,** see McClellan, C., & D. Rainier. Ethnological survey S. Yukon Territory. 1950. No. 24068.

**25340. RAINIO, A. J.** Uredinae Lapponiae. (Suomalainen eläin- ja kasvi-

tieteellinen seura vanamo. Julkaisuja, 1937. 3:7, p. 239-67, maps) **Title tr.:** Uredinae Lapponicae.

Contains annotated list of rusts found in Finnish Lapland; discussion of their distribution and possibilities of existence and a theoretical-historical sketch of this flora. Bibliography (17 items). Summary in Finnish. **Copy seen:** DLC.

**25341. RÄINOV, T. O.** O roli russkogo flota v razvitii estestvoznaniia XVIII veka. K istorii russkoj nauki XVIII v. (Akademiiá nauk SSSR. Institut istorii estestvoznaniia. Trudy, 1947. t. 1, p. 169-218) **Title tr.:** On the role of the Russian Navy in the development of natural history in the 18th century. A contribution to the history of science in the 18th century.

Contains some introductory notes, an account of the hydrographic and cartographic problems of Russian Navy in the 18th century, including information on the activities of the second expedition of Vitus Bering (Great Northern Expedition, 1734-43) in surveying the northern coasts of Russia (p. 190-95); study of Russian woods and timber, problem of mechanization, some theoretical questions in the Russian Navy of that time. The influence of the Navy's activities on the development of the study of natural history in general and on the exploration of the seas in particular, is discussed.

**Copy seen:** MH.

**25342. RAITASUO, KALEVI.** Peto-, varis-, ja lokkilintu-jemme tunteminen. (Suomen riista, 1950. no. 5, p. 92-133, illus.) **Title tr.:** How to know our birds of prey, crows and gulls.

"As a continuation to the waterfowl guide (Suomen Riista, vol. 3, p. 119-55), a corresponding guide to the knowledge of birds of prey as well as the crow family and the Laridae, based on original drawings." The drawings (scale 1:15; 1:10 and 1:20) depict about 50 species of birds, in some species both sexes and different age groups are shown for comparison; those nesting north of 65° N. lat. in Finland are so noted. Text in Finnish and Swedish.

**Copy seen:** DLC.

**25343. RAMBERG, HANS.** Remarks on the average chemical composition of granulite facies and amphibolite-to-epidote amphibolite facies gneisses in West Greenland. (Dansk geologisk forening. Meddelelser, 1951. Bd. 12, p. 27-34, sketch map)

Contains the results of chemical analyses and discussion of "significant differences between the bulk chemical composition of granulite-facies gneisses and lower-facies gneisses" in Egedesminde and Ikertog regions of West Greenland. Bibliography (6 items).

**Copy seen:** DGS.

**RAMMEL-MEYER, E. S.**, see Likharev, I. M., & E. S. Rammel'meyer. Nazemnye molluski SSSR. 1952. No. 23849.

**25344. RAMSAY, WILHELM, 1865-1928.** Ein Besuch bei den Samojeden auf der Halbinsel Kanin. (Suomalais-ugrilainen seura. Aikakauskirja, 1906. v. 23, no. 27, p. 1-12, 2 plates) **Title tr.:** A visit to the Samoyeds on Kanin Peninsula.

Contains account of his impressions from the geological expedition in summer, 1903 (see *Arctic Bibliography*, No. 14142 for his main report). Following a sketch of the climate and vegetation, the inhabitants are described: some Russian, mostly Samoyed (1062 in 1897) and a few Zyryans; their occupation: reindeer breeding, fishing, trading; their seasonal wanderings, tents, food (*resk*, rolls of rye dough), and clothing (*malitsa* from reindeer skins); their holy place Pommokodjé, on the northern slope of the Kamen or Paë Mts.: with about a hundred wooden idols (*siatai*, five drawings reproduced on p. 10-11), a pile of reindeer skulls, the latest on a high pole; description of the ritual strangling of reindeer and explanation why the christianized Samoyeds still sacrifice to idols. Remarks on extortion by the Russian traders; their civilization, etc.

**Copy seen:** DLC; InU.

**25345. RAMSAY, WILHELM, 1865-1928, and E. T. NYHOLM.** Cancrinit-syenit und einige verwandte Gesteine aus Kuolajärvi. Helsinki, 1895. 12 p., illus., map. (Finland. Geologiska kommission. Bulletin, 1:1) **Title tr.:** Cancrinite-syenite and some related rocks from Kuolajärvi.

Result of a mineralogical trip of the junior author and H. J. Stjernwall in the southeastern part of Finnish Lapland in the summer of 1891.

**Copy seen:** DLC.

**25346. RAMSAY, WILHELM, 1865-1928.** Material zur Kenntnis der spätglazialen Niveaushiftungen in Finnland. Helsinki, 1931. 145 p. (Fennia, v. 54, no. 3) **Title tr.:** Materials to the

knowledge of late glacial changes of level in Finland.

Contains an account and summary of materials dealing with changes of sea level in the late glacial period in Finland. Includes sections on: shorelines of various kinds and age; the highest limits of the area affected by wave action in the past ("marine limit"); agriculture and the highest limits of past wave action; glacial river deposits and the "highest limits", etc. This general section is followed by an account of the shorelines in Finland, presented according to districts. Bibliography (over 50 items).

**Copy seen:** DLC.

**25347. RAMSAY, WILHELM, 1865-1928.** On relations between crustal movements and variations of sea-level during the late Quaternary time especially in Fennoscandia. Helsingfors, 1924. 39 p., diags. (Fennia 44:5)

Discussion of eustatic and isostatic changes of level, transgression and regression of the sea, marine limits and raised shore lines in northern Fennoscandia, etc. Bibliography (50 items).

**Copy seen:** DLC.

**25348. RAMSAY, WILHELM, 1865-1928.** Orogenesis und Klima. Helsingfors, 1910. 48 p. (Finska vetenskaps-societeten. Oversigt af förhandlingar, 1909-1910. Bd. 52, afd. A, no. 11) **Title tr.:** Orogenesis and climate.

Contains a treatise on geological climate, in which the author attempts to show that the glacial periods occurred during periods when the surface of the earth was highly deformed and uneven, whilst the warmest periods lasted when the continents were almost levelled off. An explanation of these phenomena is offered, linking the climate with the constitution of the earth's surface (relief). Bibliographical footnotes.

**Copy seen:** DLC.

**25349. RAMSAY, WILHELM, 1865-1928.** Ueber die Einwanderung von *Yoldia arctica* Gray in's Weisse Meer. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1900. Ser. 2, chast' 38, p. 485-90) **Title tr.:** On the migration of *Yoldia arctica* Gray in the White Sea.

Analytical remarks on Quaternary ice ages, land subsidence and marine transgressions, in relation to the appearance of the molluscan species *Yoldia arctica*, in regard to the timing of which the author

disagrees with N. M. Knipovich, in his *Zur geologischen Geschichte der Fauna des Weissen und Murman-Meeres*, 1900, q. v.  
**Copy seen:** DLC.

**25350. RAMSAYER, KARL.** Polarkarte mit Gitternetz. (Petermanns geographische Mitteilungen, 1951. Bd. 95, p. 65-67, 3 maps on plate 5) **Title tr.:** Polar map with grid.

**Contains** an attempt to draft a new type of air navigational map of the polar region. It was worked out during World War II, but destroyed in the Westermann map printing plant towards the end of the war. The author, a professor in Stuttgart, here reconstructs sketches of his map.  
**Copy seen:** DLC; InU.

**25351. RAMSTEDT, GUSTAF JOHN, 1873-1950.** Das deverbale Nomen auf -m in den altaischen Sprachen. (Suomalais-ugrilainen seura. Toimituksia, 1950. v. 98, p. 255-64) **Title tr.:** The deverbale noun in -m in the Altaic languages.

Section 3 offers examples on the various functions of this suffix in Tungus.

**Copy seen:** DLC; InU.

**25352. RAMSTEDT, GUSTAF JOHN, 1873-1950.** Ueber den Ursprung der sog. Jenisej-Ostjaken. (Suomalais-ugrilainen seura. Aikakauskirja, 1907. v. 24, no. 2, p. 1-6) **Title tr.:** On the origin of the so-called Yenisey-Ostyaks.

**Contains** linguistic investigation of numerals from 2 to 7 in the Yeniseian language, with conclusion that it is a branch of Indo-Chinese, close to Tibetan. The racial appearance of the Yeniseians or Kets is not Mongolic or Turcic, rather similar to that of the Aryans. They are said to be dying out as a people: in 1905-1906 V. I. Anuchin found 160 individuals only.

**Copy seen:** DLC; InU.

**25353. RAMSTEDT, GUSTAF JOHN, 1873-1950.** Zu den samojedisch-altaischen Berührungen. (Finnisch-ugrische Forschungen, 1912. Bd. 12, p. 156-57) **Title tr.:** To the Samoyedic-Altaic contacts.

**Contains** a linguistic investigation of the Samoyed words for "dog" which apparently are borrowings from the Altaic. Generally the author believes that the Samoyeds have had some close relations with Tungus, Mongol, and Turcic peoples because of many old loanwords from these languages.

**Copy seen:** DLC; InU.

**25354. RAND, AUSTIN LOOMER, 1905-** H. B. Conover's bird work in Yukon. (Canadian field-naturalist, Nov.-Dec. 1950. v. 64, p. 214-20)

**On** the basis of Conover's notes on game birds made during hunting trips in 1919-20, Rand gives here an annotated list of twenty-eight species (geese, ducks, grouse, ptarmigan, crane, snipe, phalarope, plover and sandpiper) from the regions of Teslin, Wolf, Little Wolf, Big Salmon and Rose Rivers. This data he presents as supplementing his own *List of Yukon birds*, etc., 1946 (*Arctic Bibliography*, No. 14146).

**Copy seen:** DGS; DSI-M.

**25355. RAND, AUSTIN LOOMER, 1905-** Wildfowl. (Outdoors illustrated, Sept.-Oct. 1951. v. 3, p. 122-25, incl. 2 plates)

**Field** notes on 13 species of ducks, 12 of which range throughout the circumpolar Arctic and Subarctic, with illustration in color of each kind of duck discussed.

**Copy seen:** DLC.

**25356. RANDALL, WALTER C.** Alterations in response to changing body temperature following artificial fever and chilling. (Society for Experimental Biology and Medicine. Proceedings, Mar. 1943. v. 52, p. 240-42, fig., 3 tables)

**Contains** an account of experiments with fowl alternately submitted to low and high environmental temperatures. Lowering of the body temperature was followed by a change of the temperature regulating mechanism; keeping the animals hyperthermic before chilling did not result in a reciprocal change in the shivering threshold but rather decreased the sensitivity of the shivering mechanism. Reflex inhibition of panting, by application of cold to the skin, was elicited.

**Copy seen:** DLC.

**RANDALL, WALTER C., see also Smith, D. E., & others.** Some cutaneous responses to "reflex cooling." 1948. No. 26286.

**25357. RANKAMA, KALERVO.** On the use of the trace elements in some problems of practical geology. (Finland. Geologiska kommission. Bulletin, 1941. v. 22, no. 126, p. 90-106, fold. plate, tables.)

**"The** enrichment of nickel in plant ashes from two nickel mining districts in Finland [Kaulatunturi, Kolosjoki, Makola and Pitkämäki] has been in-

vestigated by the aid of optical spectrography. The possibilities of the use of the minor elements in prospecting are discussed and a suggestion concerning their use as an aid in geological mapping is presented."—Author's abstract. Bibliography (25 items).

**Copy seen:** DLC.

**25358. RANKKA, W.** Salaojituksesta routimishaittojen lieventäjänä. (Teknillinen aikakauslehti, 1930. v. 20, p. 181-87) **Title tr.:** The use of underground drainage to lessen damage caused by soil freezing.

*Contains* a general outline of the types of frozen soil and ground waters and their inter-relationship; effect of underground drainage and its use in decreasing damage to railroad and road beds.

**Copy seen:** DLC.

**25359. RANSFORD, G., and GIROUD.** The vocabulary of frost, snow and ice. Termes relatif au gel, à la neige, et à la glace. (Houille blanche, juil./août—nov./déc. 1950, année 5, p. 492-97, 589-96, 831-38; jan./fév., mai/juin—nov./déc., 1951, année 6, p. 65-71, 435-40, 543-50, 774-79, 881-87; jan./fév., 1952, année 7, p. 68-73, illus. in each section)

*Contains* (in parallel columns) English terms defined in some detail by Ransford with French interpretation by Prof. Giroud of Grenoble University. In v. 5 are sections on: *Frost*, including brief treatment of permafrost, well-known technical and some folk concepts; *Snow*, including notes on nivation, solifluction phenomena, and avalanching; and *Glaciers*. In v. 6, *Ice at sea* including terminology relating to icebergs; *Ice on lakes and rivers*; *Meteorology of ice*, including terminology relating to physics of snow and ice and crystal structure of snow; *Snow gauging and snow surveying*, including terminology relating to snow remedial work; *Ice engineering*, including terminology related to ice troubles in dam and hydro-electric plant operation (continued in v. 7).

**Copy seen:** DGS; DLC.

**25360. RANSLEY, T. J.** Glacier studies in the Umanak district, West Greenland, 1950. København, C. A. Reitzel, 1952. 17 p. illus. (incl. 2 sketch amps). (Meddelelser om Grønland. Bd. 136, no. 2, [pt. 3])

*Contains* an account and results of the glacial movement studies made by

the British West Greenland Expedition, 1950, on the receding Umiámáko and the advancing Rink glaciers at about 71°45' N. 51°30' and 52°30' W. on the west coast of Greenland. Bibliography (12 items).

**Copy seen:** DGS.

**25361. RANSOM, JAY ELLIS.** Let's go to Alaska. (American forests, June 1951. v. 57, no. 6, p. 10-13, 32-33, 35-36, illus.)

Popular description of present-day Alaska as a land for settlement, mentioning its climate, agriculture, fur industry, fisheries, timber, mining, and other advantages.

**Copy seen:** DA; DLC.

**RANSOM, S. W.,** *see* Clark, G., & others. Temperature regulation in cats with thalamic lesions. 1939. No. 21229.

**25362. RANTASALO, A. V.** Ueber das Sammeln und die Erforschung der Zauberbäume bei den Finnen. (Verein für finnische Volkskunde. Mitteilungen, 1943. Bd. 1, no. 1-2, p. 23-31) **Title tr.:** On the collecting and investigation of magic customs among the Finns.

An historical and bibliographical essay.

**Copy seen:** InU.

**25363. RAPAPORT, S. I., and others.** Control of blood flow to the extremities at low ambient temperatures. (Journal of applied physiology, Aug. 1949. v. 2, p. 61-71) *Other authors:* E. S. Fetcher, H. G. Shaub, and J. F. Hall.

Results of laboratory experiments at 0, -20° and -30° F on four young adult males, show that "regulation of blood flow to the extremities at low temperatures is primarily determined by the thermal state of the body as a whole." Bibliography (10 items).

**Copy seen:** DLC.

**25364. RAPAPORT, S. I., and others.** Physiological protection of the extremities from severe cold. (Federation proceedings, Mar. 1948. v. 7, p. 99) *Other authors:* J. F. Hall and E. S. Fetcher.

*Contains* an abstract about the influence of internally ventilated clothing on non-protected extremities. Normal hand and foot temperatures were maintained when about 180 kg. cal./hr. were supplied at 0° F., or 280 kg. cal./hr. at -30° F., i. e. when the body did not need to conserve heat. Under other conditions, hand temperatures rose before foot temperatures and slight heat deficit caused a fall of temperature in the feet but not in

hands, despite poorer insulation of the latter.

**Coppy seen:** DLC.

**RAPAPORT, S. I.** *see also* Fletcher, E. S., & others. *Physiol. basis internal ventilation clothing.* 1948. No. 21775.

**25365. RAPOPORT, D. M.** Lechenie ozhogov i otmorozhenii metilvioletom. (Sovetskii vrachebnyi zhurnal, 1940. no. 12, col. 843-46). **Title tr.:** Treatment of burns and frostbite with methyl violet.

*Contains a note on excellent results obtained in burns and frostbite with an alcohol solution of methyl violet, followed with a 1 per cent methyl-violet ointment. Best results were observed when applied within 24 hours after injury.*

**Coppy seen:** DLC.

**25366. RAPPOPORT, I. A. D.** Belomorsko-Baltiiskii Kombinat. (Karelo-Murmanskii krai, 1934. v. 12, no. 1-2, p. 17-19, illus.). **Title tr.:** The White Sea-Baltic Combine.

*Contains outline of a program to develop the area crossed by the Stalin Canal (Belomorsko-Baltiiskii kanal imeni tov. Stalin). This includes the construction of two large hydroelectric stations at Svir and Tulom and several smaller ones; an aluminum plant development; extensive boat building for use on the canal; exploitation of the forest and mineral resources of the area and building of two cities.*

**Coppy seen:** DLC.

**25367. RASCH, H.** Bidrag til Norges rovdyr- og rovfuglestatistik. (Norske videnskaps-akademi, Oslo. Forhandling, 1861, pub. 1862, p. 193-226) **Title tr.:** Contributions to the statistics on carnivorous animals and birds of prey in Norway.

*Contains four tables of statistical data on the number of bear, wolf, lynx and glutton, etc., killed during 1846-1860 in various regions of Norway, including Nordland and Finnmark; and four tables with similar data on eagles, hawks, etc. These data are based chiefly on the bounties paid to hunters for the extermination of these pests.*

**Coppy seen:** DLC; MH-Z.

**25368. RASCH, H.** Bidrag til Norges rovdyr- og rovfuglestatistik for femaaret 1861-65. (Norske videnskaps-akademi, Oslo. Forhandling, 1868, pub. 1869, p. 1-14) **Title tr.:** Contributions to the statistics on carnivorous animals and

birds of prey in Norway for five-year period, 1861-65.

*Contains five tables with statistical data on the number of bear, wolf, lynx, glutton, etc., and eagles, hawks, etc. killed in various regions of Norway, including Nordland and Finnmark, in 1861-65; based chiefly on official records of bounties paid.*

**Coppy seen:** DLC; MH-Z.

**RASMUSSEN, AXEL,** *see* Portland Art Museum, Portland, Ore. Native arts of Pacific NW. 1949. No. 25259.

**25369. RASMUSSEN, BIRGER.** Hydrographic observations during the cruise of M/S "Vardholm" during 2nd July-23rd August 1949. (International Council for the Study of the Sea. Annales biologiques, 1949, pub. 1950. v. 6, p. 32-33, map)

*Short preliminary note on temperatures of waters on the fishing banks off southwestern Greenland.*

**Coppy seen:** DF; DSI-M.

**25370. RASMUSSEN, BIRGER.** Notes on ice conditions in Greenland waters in 1949. (International Council for the Study of the Sea. Annales biologiques, 1949, pub. 1950. v. 6, p. 36)

*Observations of M/S Vardholm and reports from fishing vessels showed ice to be farther south on both sides of Greenland than usual.*

**Coppy seen:** DF; DSI-M.

**25371. RASMUSSEN, BIRGER.** Notes on the fishery and bottom temperatures in the Barents Sea. (International Council for the Study of the Sea. Annales biologiques, 1949, pub. 1950. v. 6, p. 9-11, map, diagrs.)

*Waters of Bear Island region (especially) and those along West Spitsbergen and south of Bear Island to Norway or eastward, were investigated in June 1949, and results show that warm Atlantic waters had penetrated farther into Barents Sea at that time than in past several years. The importance of this for codfishing is discussed.*

**Coppy seen:** DF; DSI-M.

**25372. RASMUSSEN, BIRGER, and P. M. HANSEN.** Observations on cod during the cruise of M/S "Vardholm" in 1949. Age-analyses. (International Council for the Study of the Sea. Annales biologiques, 1949, pub. 1950. v. 6, p. 40-44, diagrs.)

*B. Rasmussen reports on age and size*

composition and marking experiments on the southwestern Greenland fishing banks; P. M. Hansen gives age analyses of small cod taken between 66°55'–72°22' N. on the Greenland side of Baffin Bay-Davis Strait.

**Copy seen:** DF; DSI-M.

**RASMUSSEN, H. WEINBERG**, see Poulsen, C., & H. W. Rasmussen. Geological map & description Ella Ø. 1951. No. 25265.

**25373. RASMUSSEN, HOLGER.** Grønland og dets problemer. København, Det Danske Forlag, 1947. 91 p., illus., map. **Title tr.:** Greenland and its problems.

Informative pamphlet outlining the nature and population of Greenland, history of the Greenland trade, local and Danish administration, social conditions, literature, resources and products, conditions during and after World War II, and present strategic significance; with notes on selected publications (about 30 items) concerning Greenland's history and social conditions.

**Copy seen:** DLC.

**RASMUSSEN, KNUD JOHAN VICTOR, 1879–1933**, see Sanders, I. T. Societies around the world. 1952. No. 25824.

**RASMUSSEN, STANLEY W.**, see Minnesota. University. Institute of Technology. Review properties snow & ice. 1951. No. 24376.

**25374. RASS, T. S.** Geograficheskie kompleksy mirovogo promysla vodnykh zhivotnykh. (Vsesoizuznoe geograficheskoe obshechestvo. Izvestiia, 1950. t. 82. no. 3, p. 312–17, illus.) **Title tr.:** Geographical complexes in the world industry of aquatic animals.

The author divides the fishing industry of the world into areas, largely on a zoogeographic basis. The total production of each area, the species most common to it and their share in this total, as well as in the total world production, are quoted. Arctic and sub-arctic areas are included.

**Copy seen:** DLC.

**25375. RASS, T. S.** Nerest, ikra i mal'ki promyslovykh ryb Barentsova moria. (Karelo-Murmanskii krai, 1934. v. 12, no. 3–4, p. 57–60, maps) **Title tr.:** The spawning, roe and fry of industrial fishes of the Barents Sea.

Contains note of the importance of information on spawning areas and con-

ditions for an advanced fishing industry, followed by lists of the spawning areas and seasons for cod, haddock, plaice, flounder, sole and other flat fish, and for herring and other round fish. Depth and temperature at which spawning takes place are supplied in some cases, as well as growth rate and size of young fish.

**Copy seen:** DLC.

**25376. RASS, T. S.** O "dlinnykh" kambalakh Dal'nevostochnykh morei SSSR: *Microstomus*, *Glyptocephalus*, *Tanakius* (Pleuronectidae). (Akademiia nauk SSSR. Doklady. Novaya seriia, 1950. t. 74, no. 4, p. 855–57, illus.) **Title tr.:** On the "long" flounders of the Far Eastern seas of the U.S.S.R.

Contains taxonomic data on three species of so-called "long" flounders, including descriptions of *Glyptocephalus stelleri* and *Microstomus achne* both occurring in Okhotsk Sea.

**Copy seen:** DLC; MH-Z.

**25377. RASS, T. S.** Obzor ryb sobrannykh Murmanskoi biologicheskoi stantsiei letom 1926 goda. Murmansk, 1929. 30 p. (Leningradskoe obshchestvo estestvoispytatelei. Murmanskaiia biologicheskaiia stantsiia. Raboty, t. 3, no. [7]) **Title tr.:** Review of the fishes collected by Murman Biological Station in the summer of 1926.

Contains a list of 28 species collected largely in Kola Bay, followed by descriptions of the individual species (morphometric data included) their occurrence, geographical range, etc. For some species data on eggs and larvae are given. Bibliography (about 50 items). Summary in German. **Copy seen:** DLC.

**25378. RASS, T. S.** Zamechatel'nyi sluchai biologicheskoi svyazi ryby i kraba. (Priroda, July 1950. v. 39, no. 7, p. 68–69, illus.) **Title tr.:** A remarkable case of a biological relation between a fish and a crab.

Contains account of the discovery of the eggs of a fish, *Careproctus sinensis*, under the carapace of a Kamchatka crab, *Paralithodes camtschatica*, found in western Kamchatka waters (Okhotsk Sea), and the find of the female *C. sinensis*, during the spawning season with a specialized organ (see illus.) for depositing eggs.

**Copy seen:** MH.

**25379. RASSADINA, KSENIIA ALEKSANDROVNA, 1903–** . Novye vidy i formy *Cetraria*. Species et formae novae

Cetrariae. (Akademiâ nauk SSSR. Botanicheskiĭ institut. Otdel sporovykh rastenii. Botanicheskie materialy, 1949. t. 6, vyp. 1-6, p. 9-14) **Title tr.:** New species and forms of *Cetraria*.

**Contains** Latin and Russian descriptions of *Cetraria rhizophora* n. sp. and 11 new varieties and forms of this lichen genus, with data on distribution in northern European and Asiatic Russia and arctic islands.

**Copy seen:** MH-F.

**25380. RASSADINA, KSENIĀ ALEK-SANDROVNA, 1903-** . *Tsetrariâ* (Cetraria) SSSR. (Akademiâ nauk SSSR. Botanicheskiĭ institut. Trudy. seriâ 2. Sporovye rasteniâ, 1950. vyp. 5, p. 171-304, illus., text maps) **Title tr.:** Cetraria of the U.S.S.R.

**Contains** an historical review of the study, systematic position of the genus *Cetraria* in the general systems of lichens, biology, history of the genus and its geography (tables 4 and 5 on p. 182-83, 186-87, and map on p. 185), chemical composition, practical use, characteristics of the genus, a key for determination of the species, p. 195-97, and a list of 37 species and some forms inhabiting the U.S.S.R., p. 197-293, with synonymy, descriptions, critical notes and data on anatomy, habitat and geographic distribution (list of localities, incl. Finland), index of Latin names and a bibliography (219 items); includes many species native to northern regions of the U.S.S.R. and Finland.

**Copy seen:** MH-A.

**25381. RASSADINA, KSENIĀ ALEK-SANDROVNA, 1903-** . *Zametka o Cetraria nigricascens* Elenk. De *Cetraria nigricascens* Elenk. notula. (Akademiâ nauk SSSR. Botanicheskiĭ institut. Otdel sporovykh rastenii. Botanicheskie materialy, 1949. t. 6, vyp. 1-6, p. 15-17) **Title tr.:** A note on *Cetraria nigricascens* Elenk.

**Contains** data on systematics and anatomy of this lichen, a comparison with a related species *Cetraria hiascens* and Latin diagnosis of var. *tominii* n. var. native to Franz Josef Land and Wrangel Island.

**Copy seen:** MH-F.

**25382. RATHBUN, RICHARD, 1852-1918.** Summary of the fishery investigations conducted in the North Pacific Ocean and Bering Sea from July 1, 1888, to July 1, 1892, by the U. S. Fish Commission steamer *Albatross*. (U. S. Bureau

of Fisheries. Bulletin, 1892, pub. 1894. v. 12, p. 127-201, 5 charts (2 fold.))

**In** this report, which includes (p. 132-55) results of soundings and bottom fish trawls (cod and flounders), author characterizes the bottom and describes the many fishing banks as observed in southeastern Bering Sea, and Aleutian waters to Umnak Island, thence east and southward along the shelf to Southeast Alaska. Bibliography (18 reports and 7 charts of the U. S. Fish Commission; lists of coast pilots and charts of the U. S. Coast and Geodetic Survey, and U. S. Hydrographic Office).

**Copy seen:** DL.

**25383. RATHJENS, G. W.** Arctic engineering requires knowledge of permafrost behavior. (Civil engineering, Nov. 1951. v. 21, p. 645-47, incl. illus., table, graph, diagrs.)

"Basic principles of design and construction in permafrost areas are outlined. Factors determining the treatment of arctic engineering problems include permafrost depths and temperatures and the presence of taliks below the active layer and between permafrost layers. Annual maximum and minimum air, snow and soil temperatures at Fairbanks and Point Barrow are tabulated for 1947-48 and indicate different engineering problems for these areas. The basic decision of the engineer is whether to disturb or maintain the permafrost equilibrium. The application of the basic principles governing permafrost engineering is illustrated in three construction problems and their solutions, concerning a diversion dam founded on augmented permafrost, an oil-well derrick on permafrost and a steam power plant on permafrost."—SIPRE.

**Copy seen:** DLC.

**25384. RATNER-SHTERNBERG, S. A. L. ĪA.** Shternberg i Leningradskaĭa ètnograficheskaĭa shkola 1904-1927 gg.; po lichnym vospominaniâ i arkhivnym dannym. (Sovetskaĭa ètnografiâ, 1935, no. 2, p. 133-54) **Title tr.:** L. ĪA. Shternberg and the Leningrad ethnographical school in 1904-1927; from personal reminiscences and archival documents.

**Contains** description of the development of ethnographical studies in Russia and of the role of Shternberg, q. v., his theories and works. **Copy seen:** DLC.

**25385. RATNER-SHTERNBERG, S. A.** Muzelnye materialy po Tlingitam. Ocherk 1-3. (Akademiâ nauk SSSR. Muzel

antropologii i étnografii. Sbornik, 1927, t. 6, p. 79-114, illus., 6 plates; 1929, t. 8, p. 270-301, illus., 4 plates; 1930, t. 9, p. 167-86, illus., 5 plates) **Title tr.:** Museum materials on the Tlingits, sketch 1-3.

**Contains** description of objects collected among Tlingits and preserved in the Ethnological Museum of Leningrad. Pt. 1 has title: *Muzetnye materialy po tlingitskomu shamanstvu* (Museum materials on shamanism of Tlingits). It presents description of shamanistic costumes, ornaments, masks, and other implements, brought by G. Chudnovskii in 1891 from Admiralty Island and preserved in the Museum of Anthropology and Ethnography in Leningrad. The author tries to explain the origin and significance of the shamanistic paraphernalia and quotes extensively from the literature.

Pt. 2, *Ceremonial utensils*, deals with masks, totem poles, spoons, labrets, and daggers used in the potlach ceremonial. It includes a short description of the feast, performance of dances, distribution of presents, institution of slavery and human sacrifices; discusses Tlingits' technique of dyeing.

Pt. 3, *Objects of armament and the art and rites of war* deals with: armour, helmets, shields, daggers, swords, etc. Summary in German (pt. 2 only) t. 8, p. 300-301.

**Copy seen:** DLC (pt. 2-3); NNC (pt. 1).

**25386. RAUP, HUGH MILLER, 1901- , and C. S. DENNY.** Photo interpretation of the terrain along the southern port of the Alaska Highway. Washington, D. C., U. S. Govt. Print. Off., 1950. iv, 95-135, illus., 7 plates. (U. S. Geological Survey. Bulletin 963-D) Mineral resources of Alaska, 1945-46, pt. D.

**Contains** a brief discussion of physical features, climate and permafrost, the identification of common forest trees on the ground, forest types in relation to terrain and geographic extent of forests in southeastern Yukon and British Columbia; description of the uses and limitations of vegetation as indicators of soil texture, drainage, permafrost, stability of slopes and trafficability. Includes a key for identification of vegetation on aerial photographs. Bibliography (8 items).

**Copy seen:** DGS.

**25387. RAUP, HUGH MILLER, 1901- .** Phytogeographic studies in the Athabasca-Great Slave Lake region. I. Catalogue of the vascular plants. (Har-

vard University. Arnold Arboretum, Journal, 1936. v. 17, p. 180-315, illus., 11 plates, fold. map)

**Study** of a region lying roughly between 55°-63° N. 105°-117° W., which includes Wood Buffalo Park (already treated separately, and in this paper not emphasized). Author gives a full list of collection localities, followed by an annotated, classified list of thirty-odd ferns and fernlike species, and over 600 species and varieties of flowering plants, about ten of which are described as new. Bibliography is given in part II of these studies.

**Copy seen:** DLC.

**25388. RAUP, HUGH MILLER, 1901- .** Phytogeographic studies in the Athabasca-Great Slave Lake region, II. (Harvard University. Arnold Arboretum, Journal, 1946, v. 27, p. 1-85, illus., inc. map diagrs., 5 plates, fold. map)

**History** (in brief) of botanical exploration of the area lying roughly between 55°-63° N. 105°-117° W.; its topographic features, geology, soils, climate and vegetation types; full description of its several forest types, and discussion of distribution of forest correlated with geological formations and age of surface, with climatic zones of vegetation, and with glacial and postglacial history of the species. Bibliography (171 items).

**Copy seen:** DLC.

**25389. RAUSCH, ROBERT LLOYD, 1921- .** Biotic interrelationships of helminth parasitism. (U. S. Public Health Service. Public health reports, 1951. v. 66, no. 29, p. 928-34)

**Contains** observations and conclusions based on autopsies of 4,000 Alaskan birds and mammals supplemented by extensive field studies: peculiar aspects of worm parasites in Alaska, their survival chances, trichinosis in marine mammals and in man, tapeworm infections. Bibliography (20 items).

**Copy seen:** DLC.

**25390. RAUSCH, ROBERT LLOYD, 1921- , and E. L. SCHILLER.** Hydatid disease (Echinococcosis) in Alaska and the importance of rodent intermediate hosts. (Science, Jan. 19, 1951. v. 113, p. 57-58, illus.)

**Discussion** of a potential public health hazard in the disease caused by the larval form of a tapeworm *Echinococcus granulosus*, found in arctic mammals including foxes, dogs, reindeer, and moose, and here reported in the tundra vole *Microtus oeconomus inuitus*.

**Copy seen:** DGS.

**25391. RAUSCH, ROBERT LLOYD, 1921-** . Hydatid disease in boreal regions. (Arctic, Oct. 1952. v. 5, no. 3, p. 157-74, illus.)

Contains an account of echinococcosis as one of the more important helminthic diseases which may be transmitted by lower mammals to man. The biology and life-cycle of the *Echinococcus* genus of tapeworms is outlined; pathogenesis, diagnosis and treatment of the disease, animal cycles involved in spreading it, and its control are discussed. Its occurrence in Finland and Norway (slight), U.S.S.R., Sweden, Iceland, Canada and Alaska is indicated with references to the reporting literature. The "ample opportunity" for infection of adults and children from dogs (and to some extent foxes) in arctic regions is shown. Bibliography (about 40 items).

**Copy seen:** CA:MAI; DLC.

**25392. RAUSCH, ROBERT LLOYD, 1921-** . Notes on microtine rodents from the Brooks Range, Arctic Alaska. (Washington Academy of Sciences. Journal, Apr. 1950. v. 40, p. 133-36)

Field notes, and remarks on taxonomy, of three species of voles, including description of *Microtus miurus paneaki*, n. subsp., and brief notes on two species of lemmings, collected in the northern edge of the Endicott section of Brooks Range, during parasitological studies for the U. S. Public Health Service in 1949. Bibliography (6 items).

**Copy seen:** DGS; DLC.

**25393. RAUSCH, ROBERT LLOYD, 1921-** . Notes on the distribution of some arctic mammals. (Journal of mammalogy, Nov. 1950. v. 31, p. 464-66)

Field notes on distribution (only) of 26 species of mammals collected or recorded from northern Alaska in 1949-50, mostly in the vicinity of Tulugak Lake (68°24' N. 151°26' W.) and at Umiat (69°23' N. 152°10' W.).

**Copy seen:** DSI-M.

**25394. RAUSCH, ROBERT LLOYD, 1921-** . Notes on the Nunamiut Eskimo and mammals of the Anaktuvuk region, Brooks Range, Alaska. (Arctic, Dec. 1951. v. 4, p. 147-95, 14 illus., incl. sketch maps, 5 tables)

Contains an account of the biological nature of the mammals and their relationship to the local Eskimos, based on field observations (particularly in the Tulugak Lake area, 68°20' N. 151°26'

W.) made during 1949-51 in connection with a study of animal-borne diseases. It consists of 3 parts: (1) description of the country (physiography; climate; vegetation); (2) the people (physical characteristics, history, dwellings, clothing, food, transportation, hunting implements, etc., of an inland group of nomadic caribou hunters, now becoming adapted to white man's culture); (3) Brooks Range mammals, offering extensive data (including local Eskimo names) on 31 species especially those of economic value: occurrence, migrations, color, age composition of herds, diseases and parasites; enemies; hunting, etc. Sketch of a corral formerly used for capturing caribou is given. Bibliography (31 items). Dr. Rausch is a member of the Arctic Health Research Center, U. S. Public Health Service, at Anchorage, Alaska. The Nunamiut Eskimos are also treated in a full length study by H. Ingstad, q. v.

**Copy seen:** DLC.

**25395. RAUSCH, ROBERT LLOYD, 1921-** . Observations on a cyclic decline of lemmings (*Lemmus*) on the arctic coast of Alaska during the spring of 1949. (Arctic, Dec. 1950. v. 3, p. 166-77, illus., map)

Results of observations carried out at the Arctic Research Laboratory, Point Barrow region (1) "during the peak density" preceding the cyclic decline occurring in the spring of 1949, (2) during the decline, and (3) for more than a year subsequent to it. The conclusions (a) relate the four-year cycle of lemming abundance with snowy owl, pomarine jaeger, and arctic fox abundance, also (according to evidence of Eskimos) with good sea hunting; (b) show lack of evidence of bacterial or parasitic cause for the decline; (c) call for more and sustained research into "factors involved in the high mortality which often follows high population densities of lemmings." Bibliography (15 items).

**Copy seen:** DAI; DLC.

**25396. RAUSCH, ROBERT LLOYD, 1921-** . Studien an der Helminthenfauna von Alaska, IV. *Haploparaxis galli* n. sp. ein Cestode aus dem Schneehuhn, *Lagopus rupestris* (Gmelin). (Zeitschrift für Parasitenkunde, 1951. Bd. 15, heft 1, p. 1-3, 4 fig.) **Title tr.:** Studies on the helminth fauna of Alaska, IV. *Haploparaxis galli* n. sp. a cestode of the ptarmigan *Lagopus rupestris* (Gmelin).

Contains a description of a new species of tape-worm from the intestine of a ptarmigan taken on Tulugak Lake (68°24' N., 151°26' W.). A differentiation from related forms is given. Bibliography (2 items). **Copy seen:** DLC.

**25397. RAUSCH, ROBERT LLOYD, 1921-**, and **BETTY LOCKER**. Studies on the helminth fauna of Alaska, II. On some helminths parasitic in the sea otter *Enhydra lutris* (L.). (Helminthological Society of Washington. Proceedings, Jan. 1951. v. 18, no. 1, p. 77-81, illus.)

Contains a description of four species of these worms with references to earlier observations and nomenclature. A fifth, new, species, *Microphallus enhydrae*, n. sp. is described in detail. Bibliography (9 items). **Copy seen:** DSG.

**25398. RAUSCH, ROBERT LLOYD, 1921-**. Studies on the helminth fauna of Alaska, VII. On some helminths from arctic marmots with the description of *Catenotaenia reggiae* n. sp. (Cestoda: Anoplocephalidae). (Journal of parasitology, Aug. 1951. v. 37, p. 415-17)

In a series of twenty-odd *Marmota caligata broweri* collected in the Brooks Range (Tulugak and Kanayut Lakes region, 68°24' N. 151°26' W.) three species occurred frequently, of which one is described. This collection extends the known range of this marmot, and contributes the first information on Brooks Range marmots. Bibliography (5 items).

**Copy seen:** DSI-M.

**25399. RAUSCH, ROBERT LLOYD, 1921-**. Studies on the helminth fauna of Alaska, XI. Helminth parasites of microtine rodents. Taxonomic considerations. (Journal of parasitology, Oct. 1952. v. 38, no. 5, p. 415-444, plates, tables, map)

Contains a report on work conducted by the author for the past three years, with emphasis on qualitative, taxonomic aspects; most of the 2078 rodents examined were from Alaska, with some supplementary material from northern Canada and Eurasia; only rodents of the subfamily Microtinae were studied. Twenty-eight species of helminths are considered, and of these, two new ones *Paranoplocephala lemni*, n. sp. and *Andrya arctica*, n. sp. (both from Point Barrow) are described in detail. Bibliography (over 40 items). **Copy seen:** DA.

**RAUSCH, ROBERT LLOYD, 1921-**, see also Babero, B. B., & R. L. Rausch. Notes trematodes in Canidae. 1952. No. 20382.

**RAUSCH, ROBERT LLOYD, 1921-**, see also Brandly, P. J., & R. L. Rausch. Preliminary note trichinosis Alaska. 1950. No. 20865.

**RAUSCH, ROBERT LLOYD, 1921-**, see also Dubois, G., & R. L. Rausch. Troisième contribution à l'étude des strigeides n-américains. 1950. No. 21551.

**RAUSCH, ROBERT LLOYD, 1921-**, see also Van Cleave, H. J., & R. L. Rausch. Acanthocephalan parasites from eider. 1951. No. 27031.

**RAUSCH, ROBERT LLOYD, 1921-**, see also Van Cleave, H. J., & R. L. Rausch. New species acanthocephalan from sandpipers. 1950. No. 27032.

**25400. RAUZER-CHERNOUSOVA, DAGMARA MAKSIMILIANOVNA.** K voprosu stratigraficheskogo znachenia verkhne-paleozojskikh foraminifer. (Akademii nauk SSSR. Izvestia. Seria geologicheskaja, 1936, no. 1, p. 61-86, illus.) **Title tr.:** The stratigraphic significance of the Upper Paleozoic Foraminifera.

Contains a brief survey of the stratigraphic distribution of Foraminifera in the upper Paleozoic of Asia, America, and Europe, based largely on fossil collections from various regions of the U.S.S.R., including one (A. A. Chernova and T. A. Dobrolubova) from the Northern Ural. Summary in German.

**Copy seen:** DLC; MH.

**25401. RAVDONIKAS, V. I.** Neoliticheskie poselenia zapadnogo Prikladzh'ia v svete etnografii nekotorykh narodov severovostochnoi Azii. (In: Akademii nauk SSSR. Institut etnografii. Pamiat V. G. Bogoraza, 1865-1936, pub. 1937, p. 257-81, illus., maps) **Title tr.:** Neolithic settlements of the western Ladoga region in the light of the ethnography of some peoples of northeastern Asia.

Three Finnish archeologists' data on the neolithic settlements on the western shore of Ladoga are analyzed and compared with the present economic and social organization especially of Gilyaks. According to the author, the discussed settlements of the Ladoga region must have had matriarchal family-clan organization. **Copy seen:** DLC

**25402. RAVIER, JEAN.** Géologie. (In: Victor, Paul-Émile, and others. Rapport préliminaire de la campagne au Groenland 1949. Paris, 1950, p. 66-72) *Title tr.: Geology.*

*Contains a statement of the party's work and collections and the metamorphism of localities (Atå Sund, West Greenland) studied; the migmatites and ecinites as well as the contact formations between the two are described and their occurrence and stratigraphy traced; some later formations are briefly dealt with.*

*Copy seen: CaMAL.*

**25403. RAVILA, PAAVO ILMARI, 1902-** . Artturi Kannisto (1874-1943). (Finnisch-ugrische Forschungen, 1944. Bd. 28, p. 1-5)

*Contains obituary of a Finnish scholar who spent about five years (in 1901-1906) on several expeditions to the Voguls and Ostyaks, collected a great amount of linguistic, ethnographic and folkloristic material, and published several important works on Vogulian language and music. He explored the following localities inhabited by the Voguls: Pelym, Vagilsk, Loz'va, Tavda, Konda, Sartya, and Sos'va.*

*Copy seen: DLC; InU.*

**25404. RAVILA, PAAVO ILMARI, 1902-** . Beiträge zur Geschichte der finnisch-ugrischen l-Laute. (Finnisch-ugrische Forschungen, 1929. Bd. 20, p. 47-120) *Title tr.: Contributions to the history of the Finno-Ugric l-sound.*

*As a starting point, the author takes the Ostyak words in 54 cases.*

*Copy seen: DLC; InU.*

**25405. RAVILA, PAAVO ILMARI, 1902-** . Kai Donner (1888-1935). (Finnisch-ugrische Forschungen. Anzeiger, 1935. Bd. 23, no. 1-3, p. 268-70)

*Contains obituary with biographic sketch and tribute to the Finnish scholar who collected a great amount of very important linguistic and folkloristic material among the Samoyeds and Yeniseians (Kets) in 1911-13, and published several important works on those peoples, especially the Samoyeds.*

*Copy seen: DLC; InU.*

**25406. RAVILA, PAAVO ILMARI, 1902-** . Das Quantitätssystem des seelappischen Dialektes von Maattivuono. Helsinki, 1932. vi, 143 p. (Suomalais-ugrilainen seura. Toimituksia, no. 62) *Title tr.: The quantity system of the sea Lapp dialect of Maattivuono.*

*Description and historical consideration of the quantity system of consonants and vowels of a Lappish dialect. The author visited this place in the Petsamo region twice in 1929/30 to obtain authentic material.*

*Copy seen: DLC; InU.*

**25407. RAVILA, PAAVO ILMARI, 1902-** . Reste lappischen Volksglaubens. Helsinki, Suomalais-ugrilainen seura, 1934. 162 p. (Suomalais-ugrilainen seura. Toimituksia, no. 68) *Title tr.: Relics of popular beliefs among the Lapps.*

*Contains material written down in 1932/33 from a young Lapp (and his family) living in the village of Kittilompola near the lake of Paudujärvi in Inari parish, who was brought to Helsinki for treatment of an eye injury. The texts, given in original Lapp with German translation, are grouped in the following chapters: marriage, women's affairs, birth and childhood; death and burial; the magic of sorceress, Anna; thunderstorm; reindeer sacrifice; customs of fishermen in olden times; the wooden idols; the spirits; the magic drum and the drumming women; divination at New Year, and miscellaneous.*

*Copy seen: DLC; InU.*

**25408. RAVILA, PAAVO ILMARI, 1902-** . La société finno-ougrienne (1883-1933). (Suomalais-ugrilainen seura. Aikakauskirja, 1933. v. 46, no. 2, p. 1-66, illus. Also published in Finnish in the same journal, v. 46, no. 1, p. 1-66, illus.) *Title tr.: The Finno-Ugric Society (1883-1933).*

*Contains a history of the society: its foundation, regulations, outstanding leaders (with portraits), library and archives, expeditions and materials collected (linguistic and ethnological), publications, etc. Includes reports on research on the Lapps, Zyryans, Ostyaks, Voguls, Samoyeds, and Yeniseians.*

*Copy seen: DLC; InU.*

**25409. RAVILA, PAAVO ILMARI, 1902-** . Die Stellung der Lappischen innerhalb der finnisch-ugrischen Sprachfamilie. (Finnisch-ugrische Forschungen, 1935. Bd. 23, p. 20-65) *Title tr.: The place of Lappish within the Finno-Ugric linguistic family.*

*Contains a study of the Lapps, their language close to that of the Baltic Finns, but their racial appearance and ethnology quite different, having many features in common with the Samoyeds.*

Attempts made by R. Virchow and K. Nielsen to affiliate the Lapps with the Samoyeds are noted; and some words discussed which are common to Lapp and Samoyed and unknown in other Finno-Ugric languages, words concerned with primitive forms of reindeer husbandry. There is not yet definite proof however, the author concluded, that the Lapps were a part of the Samoyed folk who migrated to the West and adopted the Finnish language. It is also possible that the Lapps are a very old arctic people living for thousands of years in this region, and that the Finnish language was adopted comparatively late.

*Copy seen:* DLC; InU.

- 25410. RAVILA, PAAVO ILMARI, 1902-** . Ueber das finnisch-ugrische Komparativsuffix. (Finnisch-ugrische Forschungen, 1937. Bd. 24, p. 29-58) *Title tr.:* On the Finno-Ugric comparative suffix.

It is very likely that the expression for "increase" in the old Finno-Ugric was made by the means of syntax, and the use of suffix *\*mp* being a later development.

*Copy seen:* DLC; InU.

- 25411. RAVILA, PAAVO ILMARI, 1902-** . Ueber die Verwendung der Numeruszeichen in den uralischen Sprachen. (Finnisch-ugrische Forschungen, 1941. Bd. 27, p. 1-136) *Title tr.:* On the use of number in the Uralic languages.

*Contains* data on dual and plural forms in the Ural-Altaic languages, and the primary construction of the sentence. Includes many references to the Ostyak, Vogul and Lapp languages.

*Copy seen:* InU.

- 25412. RAWSON, DONALD S., 1905-** . The physical limnology of Great Slave Lake. (Canada. Fisheries Research Board. Journal, 1950. v. 8, p. 1-66, illus. (sketch maps, tables, diagrs.) fold.map)

Results of investigations made during 1944-47 for the Fisheries Research Board of Canada, sketch of the physico-geographic environs, the vegetation, climate and drainage of the region; report on the lake's dimensions, shoreline, area, depth, volume, water levels; surface, deep and mean water temperatures, heat budget, regional temperatures, and ice conditions; light penetration; seasonal cycle, amounts and deficits of dissolved oxygen; and oxygen figures for certain bays;

pH, mineral analyses, and typology (ecologic). Bibliography (43 items).

*Copy seen:* DLC; DSI-M.

- 25413. RAY, LOUIS L.** Permafrost. (Arctic, Dec. 1951. v. 4, no. 3, p. 196-203)

*Contains* text of a lecture delivered before the Permafrost Symposium at the First Alaskan Science Conference, Nov. 1950, Washington, D. C., dealing with the history of knowledge and exploration of permafrost; definitions and terminology; distribution and character: its vertical distribution, zones, kinds, etc; relation to climatic fluctuations; ice in permafrost; relation to vegetation; ground water, etc.

"Permafrost or perennially frozen ground extends over one-fifth of the land area of the earth. Regions of permafrost have been classed as: continuous, discontinuous and sporadic. Permafrost has been observed to depths of approximately 2000 ft. in Siberia and 1000 ft. in Alaska. The temperature below the level of zero amplitude within the permafrost ranges from slightly less than 0° C. to several degrees below 0° C. The surface layer above the permafrost thaws partially or completely and is called the active zone. Plants are rooted in it and all churning and soil movements take place in the active zone. An unfrozen layer between the permafrost table and the active zone, or . . . within or below the permafrost, is called talik. Observations indicate that the southern boundary of permafrost is slowly moving northward due to present climatic fluctuations. Utilization of permafrost and the problems involved are discussed."—SIPRE. Bibliography (16 items).

*Copy seen:* DLC.

- 25414. RAY, RICHARD GODFREY, 1920-** . Orbicular diorite from southern Alaska. (American journal of science, Jan. 1952. v. 250, p. 57-70, illus., 2 plates)

*Contains* a description and discussion of the origin of what appear to be primary orbicules in a quartz-diorite batholith of the Willow Creek mining district, north of Palmer, Alaska. Bibliography (10 items). *Copy seen:* DGS.

**RAYMOND, Father,** see Kidd, G. E. Skull Copper Eskimo. 1946. No. 2324.

- 25415. RAYMOND, MARCEL.** La carte de *Carex stylosa* C. A. Meyer. (Association Canadienne-Française pour l'Avancement des Sciences, Montreal.

Annales de l'ACFAS, 1949. v. 15, p. 101-104, map) **Title tr.:** The map of *Carex stylosa* C. A. Meyer.

Discussion of the distribution of this sedge from southern Greenland westward across northern Canada (an addition to its map), throughout Alaska, the Aleutian Islands and Kamchatka; with notes on its morphology. Bibliography (5 items). **Copy seen:** DLC.

**25416. RAYMOND, MARCEL.** La distribution de l'*Eriophorum brachyantherum* Traut. & Meyer, et de l'*Eriophorum callitrix* Cham. en Amérique du Nord. (Naturaliste canadien, Sept. 1951. v. 78, p. 285-98, illus., maps) **Title tr.:** The distribution of *Eriophorum brachyantherum*, Traut. & Meyer, and of *Eriophorum callitrix*, Cham. in North America.

Following a description of these two species of bog sedges, the author offers a detailed account of their distribution, area by area. Both are arctic, subarctic forms. The first is circumpolar, the second does not occur in Europe. Bibliography (13 items). **Copy seen:** DA.

**25417. RAYMOND, MARCEL.** Histoire et distribution de *Carex williamsii* Britton. (Naturaliste canadien, juillet-août 1950. v. 77, p. 222-27, sketch map) **Title tr.:** History and distribution of *Carex williamsii* Britton.

Note on the trans-Canadian arctic distribution established for the sedge species first described (in 1901) from Dawson in Yukon Territory, later collected in Alaska, Keewatin District and (1947-48) on Ungava Peninsula and along the George River in northern Quebec. Bibliography (9 items).

**Copy seen:** DA; DGS.

**25418. RAYMOND, MARCEL.** Quel est l'habitat de l'*Heracleum lanatum* Michx.? (Association Canadienne-Française pour l'Avancement des Sciences, Montreal. Annales de l'ACFAS, 1949. v. 15, p. 118-20, map) **Title tr.:** What is the habitat of *Heracleum lanatum* Michx.?

Note and distributional map showing the occurrence of this subarctic seed plant from the Labrador coast across Canada, southern Alaska, the Aleutian Islands and Kamchatka. Bibliography (6 items). **Copy seen:** DLC.

**25419. RAYMOND, MARCEL.** Quelques entités mineures nouvelles de la

flore du Québec, I. (Naturaliste canadien, jan.-fév. 1950. v. 77, p. 55-71, illus.) **Title tr.:** Some minor new entities in the flora of Quebec, I.

Notes on new forms, varieties and combinations in five families of flowering plants, among which are included a number of carices from northern Quebec.

**Copy seen:** DA; DGS.

**25420. RAYMOND, MARCEL.** Two new *Eriophorum* hybrids from north-eastern North America. (Svensk botanisk tidskrift, 1951. Bd. 45, häft. 3, p. 523-31, illus.)

Contains descriptions of two new North American hybrids of *Eriophorum*, including *E. pylaenium* (*E. spissum* x *E. russeolum*) native to Newfoundland and Labrador (Blanc Sablon).

**Copy seen:** DA; MH-Z.

**RAYMOND, MARCEL,** see also Rousseau, J., & M. Raymond. *Agoseris* nouveau. 1951. No. 25676.

**RAYMOND, MARCEL,** see also Rousseau, J., & M. Raymond. *Gentiana tenella*. 1952. No. 25682.

**RAYMOND, MARCEL,** see also Rousseau, J., & M. Raymond. Quelques entités nouvelles. 1952. No. 25688.

**25421. READER, S. R., and H. M. WHYTE.** Tissue temperature gradients. (Journal of applied physiology, 1951. v. 4, p. 396-402)

Contains a report on observations made with needle thermocouples in various parts of the trunk and limbs of two subjects, one locally cooled, the other locally heated. Gradients of the lumbar region were measured on numerous subjects similarly treated. Bibliography (12 items). **Copy seen:** DLC.

**25422. RECHNOÏ TRANSPORT.** Tolkanié sudov na Obi. (Rechnoi transport, Sept.-Oct. 1952. v. 12, no. 5, p. 43-44) **Title tr.:** Towing [lit. pushing boats] on the Ob'.

Contains information and data the amount of goods shipped on West Siberian bottoms in 1952 (120,000 tons); tugboats and barges in operation; organization and methods applied on the Ob'; types of tugboats; achievements. **Copy seen:** DLC.

**25423. RECKORD, GORDON E.** Present land use in the Matanuska valley, Alaska. [Abstract]. (Association of

American Geographers. Annals, 1942. v. 32, p. 130)

Sketch of the extent of cultivated land, farm crops, sizes, and types, and notes on land not (then) in use.

**Copy seen:** DGS; DLC.

**25424. REDIKORTSEV, VLADIMIR VLADIMIROVICH, 1873-** . Neue Ascidien aus dem fernen Osten. (In: Festschrift Dr. E. Strand, 1937. v. 3, p. 122-27, plates 13-14) **Title tr.:** New Ascidae from the Far East.

Contains German diagnoses of five new ascidians from the Okhotsk Sea (Shantar Islands) and of *Synoiicum sabuliferum* n. sp. found in Kronotskiy Bay, Kamchatka waters.

**Copy seen:** MH-Z.

**25425. REDIKORTSEV, VLADIMIR VLADIMIROVICH, 1873-** . Eine neue *Rhizomolgula* - Art. (Akademifâ nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1908. t. 13, no. 3, p. 327-31, illus.) **Title tr.:** A new species of *Rhizomolgula*.

Contains a description of a new sea squirt, *Rhizomolgula warchowskii*, found in Matochkin Shar, Novaya Zemlya.

**Copy seen:** DLC; MH-Z.

**25426. REDIKORTSEV, VLADIMIR VLADIMIROVICH, 1873-** . A new species of the genus *Diandrocarpa*. (Akademifâ nauk SSSR. Zoologicheskii muzei. Ezhegodnik, pub. 1917. t. 21, p. 31-33, illus.)

Contains a description of *Diandrocarpa okai* n. sp., a new tunicate collected by Dr. Meder in Okhotsk Sea (56°18' N. 145°4' E. and 60°18' N. 158°13' E.).

**Copy seen:** DLC; MH-Z.

**25427. REDIKORTSEV, VLADIMIR VLADIMIROVICH, 1873-** . Pseudoscorpions nouveaux, II. (Akademifâ nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1922. t. 23, no. 2, p. 257-72, illus.)

Contains descriptions of six new species of pseudoscorpions from various regions, including *Obisium brevipalpe* n. sp. native to Kamchatka Peninsula. Pt. 1 does not include arctic material.

**Copy seen:** DLC; MH-Z.

**25428. REDIKORTSEV, VLADIMIR VLADIMIROVICH, 1873-** . *Tethyum rhizopus* var. *murmanense*, eine neue Ascidie von der Murmanküste. (Akademifâ nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1911. t. 16, no. 1, p. 61-64, illus.,

plate 1) **Title tr.:** *Tethyum rhizopus* var. *murmanense*, a new ascidian from the Murman coast.

Contains a German description of *Tethyum rhizopus* var. *murmanense*, a new sea squirt found in 1909 near Bol'shoy Oleniy Island, off the Murman coast, Barents Sea.

**Copy seen:** DLC; MH-Z.

**25429. REDIKORTSEV, VLADIMIR VLADIMIROVICH, 1873-** . Zwei neue *Chelyosoma* - Arten. (Akademifâ nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1911. t. 16, no. 1, p. 143-51, fold. table) **Title tr.:** Two new species of *Chelyosoma*.

Contains descriptions of two new sea squirts, including *Chelyosoma ochotense* n. sp. and a table for comparative study of four *Chelyosoma* species, including also *C. macleayanum* native to Bering and Okhotsk Seas.

**Copy seen:** DLC; MH-Z.

**25430. REECE, ALAN.** Analysis of sledge journeys. (Polar record, July 1950. v. 5, no. 40, p. 585-88, table)

Contains a table and explanatory text on sledging of an antarctic party (at Falkland Islands Dependencies Survey base, Hope Bay, Graham Land). The table gives day-to-day record of a sledge trip Dec. 6, 1946-Jan. 5, 1947: data on destinations, times, height of camp, loads per dog, wind direction and force, temperature, with note of weather and surface, which "appears to contain all the information required" for an accurate appraisal of a journey. Metric equivalents of measurements are added.

**Copy seen:** DLC.

**REECE, G. M.,** see Hyland, W. L., & G. M. Reece. Water supplies army bases. 1951. No. 22764.

**25431. REED, JOHN CALVIN, 1905-** . Alaska—ein kommandes Land. (Umschau, June 1, 1950. Jahrg. 50, p. 344-45) **Title tr.:** Alaska, a coming country.

Brief remarks to accompany four photographs of physiographic features in Alaska; drawn from his *Alaska and the Geological Survey*, 1949 (Arctic Bibliography, No. 14317). **Copy seen:** DLC.

**25432. REED, JOHN CALVIN, 1905-** , and H. J. COOLIDGE. The Alaskan Science Conference. (Science, Mar. 2, 1951. v. 113, p. 223-27)

In pt. 1, J. C. Reed states the objectives of this conference held in Washington, Nov. 9-11, 1950, and discusses briefly

the status of scientific research in Alaska, its major requirements, and ways and means stimulating it.

In pt. 2, H. J. Coolidge notes the participants in this conference and reviews its proceedings according to subject fields. **Copy seen:** DGS; DLC.

**25433. REEDS, CHESTER A.** Living glaciers. (Natural history, July-Aug. 1928. v. 28, p. 379-93, illus.)

Article for the general reader, on occurrence, distribution, types and nature of glaciers throughout the world.

**Copy seen:** DLC; DSI-M.

**25434. REGEL, EDUARD AUGUST von, 1815-1892.** Uebersicht der Arten der Gattung *Thalictrum*, welche in Russischen Reiche und den angrenzenden Laendern wachse. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1861. t. 34, no. 1, p. 14-63, plates 1-3) **Title tr.:** Review of the species of the genus *Thalictrum* growing in Russia and adjoining countries.

Contains a critical revision of herbaceous genus *Thalictrum*, with a key to the species and a systematic enumeration of 19 species and several varieties, synonymy, Latin descriptions, critical notes and data on distribution in Russia and adjoining countries; includes some species native to northern Siberia and Kamchatka.

**Copy seen:** DLC; MH-A.

**25435. REGELE, OSKAR.** Die "Payer-Weyprecht-Ausstellung" in Wien 1949/1950. (Polarforschung, 1950, pub. 1951. Bd. 2, Jahrg. 20, p. 357-60) **Title tr.:** The Payer-Weyprecht Exhibit in Vienna, 1949-50.

A government-sponsored exhibit memorializing the 75th anniversary of the return of the Austro-Hungarian North Polar Expedition, 1872-74, and celebrating the Austrian contribution generally to polar exploration and research.

**Copy seen:** DGS.

**25436. REIKHARDT, AKSEL' NIKOLAEVICH.** Nauchnye rezul'taty Äakutskoi ekspeditsii Akademii nauk SSSR 1925 i 1926 gg. Materialy k faune Histeridae (Coleoptera) Äakutii. (Akademii nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1931, pub. 1932. t. 32, vyp. 4, p. 541-58) **Title tr.:** Scientific results of the Yakut Expedition of the Academy of Sciences, 1925-26. Materials for the Histeridae (Coleoptera) fauna of Yakutia.

Contains a systematic list of 30 beetles

of the fam. Histeridae belonging to the fauna of Yakutia and based chiefly on the material collected in 1925-26 by the Expedition of the Academy of Sciences with lists of localities and data on distribution in adjoining regions. Summary in German.

**Copy seen:** MH-Z.

**25437. REIKHARDT, AKSEL' NIKOLAEVICH.** Zametki o palearkticheskikh Histeridae (Coleoptera), I. (Russkoe entomologicheskoe obozrenie, 1926. t. 20, vyp. 3-4, p. 269-74) **Title tr.:** Notes on palaearctic Histeridae (Coleoptera), I.

Contains critical notes on 19 species of coleopterous family Histeridae, including *Hister striola* native to Kamchatka Peninsula. Other parts of this work do not contain arctic material. Summary in German. **Copy seen:** DSI-M; MH-Z.

**25438. REIN, GABRIEL.** Materialier till utredande af Finlands statistik. II. Uleåborgs Lan. Helsingfors, 1867. 371 p., tables. (Bidrag till kannedom af Finlands natur och folk, Häfte 10) **Title tr.:** Materials for explanation of the statistics on Finland, II. The county of Uleåborg.

On the basis of data which he collected in 1863 from various official and other sources, the author offers chapters on the history and (from his personal observations), the life and nature of this county, which includes the region north of the Arctic Circle. He presents a statistical abstract of areas under cultivation, agricultural and other products, public finances, property, trade, occupations, population, monthly air temperatures, for Sodankylä 1857-63, and Muonioniska, 1849-58; also data on freeze-up and break-up on inland waters, ripening of crops, arrival and departure of birds, etc.

**Copy seen:** DLC.

**25439. REINDEER COUNCIL OF THE UNITED KINGDOM.** First annual report 1949-1950. Cambridge, 1950. 8 p., illus.

Lists officers; outlines Council's object "to encourage experiments in reindeer-breeding in suitable areas in Scotland and/or overseas"; unsuccessful efforts since 1948 to import 25 reindeer from northern Sweden for experimental establishment in the Scottish Highlands.

**Copy seen:** CaMAI.

**REINDEER COUNCIL OF THE UNITED KINGDOM, see also Arctic**

circular. Reindeer breeding experiment Scotland. 1952. No. 20279.

**REINDEER COUNCIL OF THE UNITED KINGDOM**, see also Whitehead, G. K. Plan to bring back reindeer. 1951. No. 27353.

**REINHOLM, A. H.**, see Aspelin, J. R. Pirkka. 1888. No. 20345.

**25440. REITLINGER, E. A.** Kembrilskie foraminifery Ĭakutii. (Moskovskoe obshchestvo ispytatelei prirody. Būl-leten', 1948. Novaiā seriā, t. 53. Otdel. geol. t. 23, vyp. 2, p. 77-81, illus.) *Title tr.*: Cambrian Foraminifera of Yakutia.

Contains descriptions of four new genera and five new species of foraminifers, found in Cambrian deposits in the Aldan River basin, Yakutia, during geological investigation of that region in 1946.

*Copy seen:* DLC; MH-Z.

**REITTER, EDMUND, 1845-1920**, see Chicherin, T. S. Mémoire sur *Trichocellus*. 1899. No. 21185.

**25441. REKSTAD, JOHN BERNHARD, 1852-1934.** Beskrivelse til kartbladet Dønna. Christiania, A. W. Brøgger, 1904. 32 p. illus. (Norges geologiske undersøgelse, no. 37; Aarbog for 1904, no. 5) *Title tr.*: Description of the geological map of the Dønna Region.

Contains data on rock formations of the Dønna district, northern Helgeland (66°-60'20" N.), with notes on glacial striation, shore line, two systems of depressions in the shape of fiords and sounds; lists of fossil molluscs from various localities and the upper and lower terraces. Summary in English.

*Copy seen:* MH-Z.

**25442. REKSTAD, JOHN BERNHARD, 1852-1934, and J. H. L. VOGT.** Søndre Helgelands kvartaergeologi. (In: Vogt, J. H. L., Søndre Helgeland, 1900. p. 62-112, 150-57, 170-75, illus.) *Title tr.*: Quaternary geology of southern Helgeland.

Contains a study of Quaternary geology of the southern Helgeland district of Nordland province in northern Norway, with data on morainic deposits (p. 62-65), coastline and high terraces (p. 66-85, 150-54), lower terraces and fossil molluscs encountered there (p. 85-94, 155-56), "torghatten" (see illus., p. 95-97) and other caves near the coastline (p. 95-105, 152), and a discussion of ocean currents at the end of the ice age (p.

105-110, 156-57). Summary in German, p. 170-75. *Copy seen:* MH-Z.

**25443. REMPEL, J. G.** A guide to the mosquito larvae of western Canada. (Canadian journal of research, Aug. 1950. v. 28, sect. D, p. 207-48, incl. 15 plates, sketch map)

Keys and descriptive notes to the 6 genera and 46 species of mosquito larvae represented in the fauna of Canada's four western provinces, with distribution also in Yukon and (in some cases) Alaska. Bibliography (15 items).

*Copy seen:* DGS; DSI-M.

**25444. REMPP, GEORG, 1882- , and A. WAGNER.** Die Hydrodynamik des Föhns und die "lokalen Winde" in Spitzbergen. 1917. 12 p., 2 tables. (Deutsches Observatorium Ebeltofhafen-Spitzbergen. Veröffentlichungen, v. 7) *Title tr.*: Hydrodynamics of the föhns and "local winds" in Spitzbergen.

Publication of the German meteorological observatory established in 1910 at Ebeltofhamna 79° N. 11°30' E. on Vestspitsbergen. "Hydrodynamic conditions of föhn and bora are described, and the local winds in fiords open to N and W are analyzed. The conclusion is drawn that in autumn and winter those local winds are developed in strict accordance with the dynamic conditions of föhn as interpreted by R. Wenger."—*Meteorological abstracts and bibliography*, July 1951. v. 2, no. 7, p. 600.

*Copy seen:* DWB.

**25445. RENAUD, ANDRÉ.** Contribution à l'étude du grain de Glacier. (International Geodetic and Geophysical Union. Association of Scientific Hydrology. Assemblée générale d'Oslo. Procès-verbaux des séances. t. 2. Travaux de la Commission de la Neige et des Glaciers, pub. 1950? p. 213-15, diagr.) *Title tr.*: Contribution to the study of the glacier grain.

Also published in English in somewhat expanded form, see item following.

*Copy seen:* DGS.

**25446. RENAUD, ANDRÉ.** A contribution to the study of the glacier grain. (Journal of glaciology, Oct. 1949. v. 1, p. 320-24, tables, graph)

"This paper was presented in shorter form to the International Commission on Snow and Glaciers, Oslo, 20 August 1948"—p. 324.

"The melting of glacier ice always begins at the surface of the glacier grains,

A mass of glacier ice at a temperature near the melting point becomes an aggregate of crystals separated by a film of liquid. The electrical conductivity of ice subjected to differential melting is higher if the fractions originate in the grain surfaces rather than in the crystal centres. It is concluded that the glacier grain consists of a crystal of pure ice with a surrounding film of brine, thus verifying the hypotheses of Buchanan and of Quincke on the formation of natural and artificial ice. The growth of the grain is facilitated by the elimination of the saline skin between neighboring crystals, the resulting coalescence having the character of autogenous welding. The intergranular film of liquid may act as a lubricant in the as yet inadequately explained mechanism of glacier flow."—SIPRE.

**Copy seen:** DLC.

**25447. RENDAHL, HJALMAR.** Nogle ord om silkenhalen (*Ampelis garrula*) i Sverige vintern 1913-1914. (Dansk ornithologisk forening. Tidsskrift, 1917-18, pub. 1918. Årg. 12, heft 1-2, p. 62-68, text maps) **Title tr.:** Some words on the waxwing (*Ampelis garrula*) in Sweden, in the winter of 1913-1914.

Contains a phenological study of the occurrence and migration of this bird in a season (winter 1913-14) when it was especially abundant; includes data on Swedish Lapland. **Copy seen:** MH-Z.

**RENDEL, JØRGEN,** see Marcussen, P. V., & J. Rendel. Studie over syphilis. 1949. No. 24177.

**25448. RENGARTEN, V. P.** Manganføsnosnye paleogenovye otlozheniia Severnogo Urala. (Akademiia nauk SSSR. Izvestiia. Seriia geologicheskaiia, 1944. no. 4, p. 47-58) **Title tr.:** The manganiferous Palaeogene deposits of the Northern Urals.

"Two zones of manganese deposits occur in the lower Paleogene of the east slope of the Northern Urals. They are probably of biogenic origin. Intraformal breaks in the deposits are due to Paleogene epeirogenic movements, and local deformations were caused by Pleistocene glaciers and landslides."—Geological Society of America. **Bibliography and index of geology, 1943-44, v. 10, p. 108.** Summary in English.

**Copy seen:** MH.

**25449. RENKONEN, OLAVI.** Statistisch-ökologische Untersuchungen über die terrestrische Käferwelt der Finnischen

Bruchmoore. Helsinki, 1938. 231 p., tables, diagrs., map. (Suomalainen eläin- ja kasvitieteellinen seura Vanamo. Eläintieteellisiä julkaisuja. Annales zoologici, v. 6, no. 1) **Title tr.:** Statistical-ecological investigation of the terrestrial beetle population of Finnish bogs.

Contains a largely theoretical, biocoenological study concerning the relation of the terrestrial beetles to the bog-types established by Cajander. Eight areas were studied, one of them north of the Arctic Circle at Pallastunturi (p. 24-40); successive sections deal with: the living conditions of beetles in the moors; problems of autecology; synecology of the areas investigated, and a comparison with the moor types established by Cajander (p. 215-19). Author reaches the conclusion that several other factors (e. g. climate, water conditions, etc.) in addition to the bog-type determine the character and composition of the beetle populations. **Bibliography (over 150 items).** Summary in Finnish.

**Copy seen:** DLC.

**25450. RENKONEN, OLAVI.** Über das Vorkommen der *Stenus*-Arten (Col. Staph.) an verschiedenen Wohnorten in Finnland. Helsinki, 1934. 30 p., illus. (Suomalainen eläin- ja kasvitieteellinen seura Vanamo. Eläintieteellisiä julkaisuja. Annales zoologici, 1:4) **Title tr.:** On the occurrence of *Stenus*-species (Col. Staph.) in various habitats in Finland.

An ecological study of this beetle in Finland, including some northern areas. The occurrence and life of these species on beaches, bogs, forests and farmland are discussed. The question of preference of habitat and morpho-physiological phenomena connected with competition are analyzed. **Bibliography (4 items).** Summary in Finnish.

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**25451. RENQVIST, HENRIK, 1883- .** Kasvillisuuden peittäjä osa Suomen järviä. (Terra, 1932. 44:1, p. 47-56, tables, diagrs.) **Title tr.:** The areas covered by vegetation in the lakes of Finland.

Preliminary work based on study of 174 lakes of three sizes, from which the percentage of lake area under vegetation is determined. Includes data on five large lakes in northern Finland. Summary in German. **Copy seen:** DLC.

**25452. RENQVIST, HENRIK, 1883- .** Kuusamon maanjäristys ja sen johdosta

sananen. (Terra, 1926. 38:4, p. 159-70, map) *Title tr.:* The earthquake at Kuusamo.

By questionnaire, by the use of the Mercalli-Cancani scale with improvements by Sieberg, and with data from nearby seismographic stations, author located the macroseismic epicenter of the earthquake of July 18, 1926 at 65½° N. 28½° E. Map shows the degree of intensity of the quake from 63°30' N. to 67°15' N. *Copy seen:* DLC.

**25453. RENQVIST, HENRIK, 1883-** . Största dagsummer av nederbörden i Finland. Helsingfors, 1915. 13 p., diagrs. tables. (Fennia, 38:5) *Title tr.:* Daily maxima of precipitation in Finland.

*Contains* on the basis of observations of daily precipitations of over 40 mm., 1882-1913, information on the dates of such precipitations (daily maxima); number of observation points in various years; observations over longer periods; frequency and area relations, etc.

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**25454. RENQVIST, HENRIK, 1883-** . Suomen sisävedet. (Finland. Hydrografen toimisto. Tiedonantoja (Meddelanden från Hydrografiska byran), 1951. v. 13, p. 145-80, tables, maps, diagrs.) *Title tr.:* The inland waters of Finland.

A statistical survey of Finnish rivers and lakes, the latter, estimated to number 55,000 and to cover eight percent of the land area of the country; with eight percent of the watershed areas draining into the arctic seas. Includes data on Lake Inari, 69° N. lat., and on the Paats, Teno, Oulanka, Tulema and Näätämö Rivers in the northern part of Finland. Discussion of lakes, their origin, general form and depth; factors affecting their depth and declivity, water temperatures, etc. Watershed areas and rivers: water division factors and ground water; water-level characteristics; the length and rainfall area of streams and rivers; curves, valleys and wearing; discharge ratios and their yearly averages; changes in water level; water power resources and the use of rivers in transportation. The percentage of lake area, rainfall, flow, evaporation, water bodies, and discharge are shown by area. Bibliography (15 items).

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**25455. RENVALL, AUGUST.** Asutusolojen järjestely määntymetsäraja-

duilla. (Suojametsäkysymyksestä VI). Helsinki, 1919. 214 p. (Acta forestalia fennica, 11:6) *Title tr.:* Arranging conditions of settlement on the borders of the pine forests. (The protected forest question, 6.)

On opportunities for settlers on the edges of pine forests and tundra areas, and in the southern parts of the protected forest; development of settlements and conditions in the protected forests, plans for new settlements, especially on the northernmost protected forest areas.

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**25456. RENVALL, AUGUST.** Beobachtungen ueber die Exzentrizität des lappländischen Kiefernstammes. Helsinki, 1923. 14 p., tables. (Acta forestalia fennica, 26:4) *Title tr.:* Observation on the eccentricity of Lapland pine stems.

Analysis based on stem cross section of trees from various localities and of varying age.

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**25457. RENVALL, AUGUST.** Määntymetsän elinehdot sen pohjois-rajalla sekä tämän rajan allennemisen syyt. (Suojametsäkysymyksestä I). Helsinki, 1919. 143 p., tables. (Acta forestalia fennica 11:1) *Title tr.:* The condition of pine at its northernmost limit and causes for the southward movement of this limit. (The protected forest question, 1).

On the size of the pine forests; main biological factors of the northernmost pines; influence of the environment, and of man's activities on pine forests, and causes for limit of pine growth moving southward. *Copy seen:* DLC.

**25458. RENVALL, AUGUST.** Metsänhoidon pääperusteet varsinaisella määntymetsärajavyyöhykkeellä. (Suojametsäkysymyksestä V). Helsinki, 1919. 112 p., tables. (Acta forestalia fennica, 11) *Title tr.:* The main points of forest care in special pine forest border zones. (The protected forest question, 5).

*Contains* outline of care of forests in protected areas; influence of the biological characteristics and other factors on the forestry program: young pines and their relation to the older forest, effect of the density of young and old trees on forest use; amounts of trees felled and the growth of pine at the forest borders; lasting forest economy, comparison of viewpoints on forest care and long-range forest economy for the special zones near the southern part of the protected forest

area; methods of a long range forest economy program and its importance to settlers.  
**Copy seen:** DLC.

**25459. RENVALL, AUGUST.** Poronlaidunnan järjestely suojametsäalueella. (Suojametsäkysymyksestä IV). Helsinki. 1919. 149 p. (Acta forestalia fennica, 11) **Title tr.:** Arranging pasturage for reindeer in protected forest areas. (The protected forest question, 4).

Contains data on basic requirements for the protection of pine and fir forests in relation to reindeer grazing; statistical and other information of the reindeer; 27 regulations proposed for control of reindeer pasturage in the state forests.

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**25460. RENVALL, AUGUST.** Das radiale Schwindmass des lappländischen Kiefernstammholzes. Helsinki, 1923. 14 p., tables. (Acta forestalia fennica, 26:3) **Title tr.:** The mount of radial shrinkage in Lapland pine-stem timber.

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**25461. RENVALL, AUGUST.** Suojametsäjärjestelmän tarkoituksiperät ja edellytykset; metsän suojeleminen kulloilta. (Suojametsäkysymyksestä II-III). Helsinki, 1919. 36 p. (Acta forestalia fennica, 11:2) **Title tr.:** Significance and aims of forest protection; protecting forests from fires. (The protected forest question, 2-3).

Includes reference to the northern forests throughout, also 13 specific suggestions for regulations in regard to forest fires.

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**RESEARCH COMMITTEE ON GLACIERS, see also** Glaciological Conference 1st, N. Y. 1949. Report. 1950. No. 22129.

**RESEARCH COMMITTEE ON GLACIERS, see also** Glaciological Conference 2d, N. Y. 1951. Proceedings. 1951. No. 22130.

**25462. RESHETNIKOV, S.** Krest'-iñskoe khozjal'stvo Kamchatki. (Severnaja Aziia, 1928. god 4, no. 3, p. 104-106) **Title tr.:** The peasant economy in Kamchatka.

Contains a letter from Petropavlovsk in Kamchatka with account of the current economic situation; the chief occupation of people in the country is fishing; the fishermen are organized in 18 cooperatives or artels, their income is low.

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**25463. RETTIE, JAMES CARDNO, 1904- , and S. MIRICK.** Comparisons of transportation costs for 88 specified commodities between midwestern and eastern points and Seattle, Washington, or Prince Rupert, British Columbia; between Seattle and various points in Alaska; between Anchorage, Alaska, and Fairbanks, Alaska. Portland, Oreg., 1944. 2 p. l, 10 p. incl. tables and 2 fold. diagrs. (North Pacific Planning Project. North Pacific Study. [no. 4]) Mimeographed.

Data on transportation cost (in tables and graphs) "compiled in connection with a study of the probable extent to which the Alaska Highway might be used for commercial truck traffic between the States and Alaska after the war."

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**25464. RETTIE, JAMES CARDNO, 1904- , and others.** Population trends, living conditions and employment opportunity in Alaska. Preliminary draft. Portland, Oreg., 1944. ii, 111 p. incl. 3 plates (diagrs.), fold. map. (North Pacific Planning Project. North Pacific Study. [no. 15] Mimeographed. Other authors: S. Mirick and G. Sundborg. With advice and assistance by C. McKinley.

"An attempt to show some of the correctible weaknesses of the present population pattern . . . to point the way for improvements which are within the power of the Federal Government to work. Social and economic conditions . . . are appraised . . . an achievable goal of increased employment in postwar Alaska is set up and its components analyzed."—p. 5.

Authors show numerical trends of the white population, its national and geographic origin, age and sex composition, birth and death rates, seasonal and longer term migration; the racial and linguistic groups in the native population, its decline and growth in numbers, age and sex composition, birth and death rates; geographical distribution of population in Alaska. Public health, education, cost of living and employment are discussed, also some major problems, e. g. racial, health, occupational. **Appendix:** Alaska hospitals, 1944.

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**25465. RETTIE, JAMES CARDNO, 1904- , and others.** Problems in post-war commercial utilization of the Skagway-Whitehorse-Fairbanks petroleum products pipe line system in Alaska. Portland, Oreg., 1944. 3 p. l, 33 p. incl. tables, fold. map and fold. diagr. (North

Pacific Planning Project. North Pacific study. [no. 7]) Mimeographed. *Other authors:* S. Mirick, G. Sundborg and C. McKinley.

Chapters on estimate of civilian requirements in area tributary to the pipe line, hypothetical peacetime military requirements, costs of operation and rates, general policy considerations, with a description of the Canol Project and terms of the disposal agreements. *Map* shows location of Canol Project pipe lines and probable market area in Alaska and Yukon Territory; *chart* shows cost in cents per barrel for railroad, truck and pipeline transportation of gasoline, diesel fuel and fuel oil from tidewater to various points in Alaska at specified rates.

*Copy seen:* DI.

**25466. RETTIE, JAMES CARDNO, 1904-**, and *others*. Shipping services in the American North Pacific, United States and Canadian. Pt. 1—Economic analysis. Preliminary draft. Portland, Ore., 1944. 2 p. l., 40 p. incl. tables, front. (diagr.), fold. map. (North Pacific Planning Project. North Pacific Study. [no. 8]) Mimeographed. *Other authors:* G. Sundborg and S. Mirick.

Analysis of freight and passenger traffic between United States and Alaska, and the level of freight rates and passenger fares; history of investigations of Alaska freight rates; description of wartime operation (World War II); and discussion of joint interests and possible cooperation of United States and Canada. *Map* of ocean and inland water routes showing ports and places mentioned, with table of distances between ports.

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**25467. RETTIE, JAMES CARDNO, 1904-**, and *others*. Supplement to Preliminary memorandum on peacetime use and maintenance of the Alaska Highway. Portland, Ore., 1944. 2 p. l., 17 p. incl. tables. (North Pacific Planning Project. North Pacific Study. [no. 3]) Mimeographed. *Other authors:* S. Mirick and G. Sundborg.

"A study of comparative costs for shipment of 88 selected commodities from Seattle, Washington, to Fairbanks, Alaska, via steamship and the Alaska Railroad against shipment by steamship to Haines and Valdez and thence to Fairbanks by truck."—title-page.

Authors discuss comparative distances and strategic locations of the Haines Route and Richardson Highway from

the point of view of a possible future expansion of trucking, neither of these roads at that time having truckage competitive with Alaska Railroad freight rates.

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**RETTIE, JAMES CARDNO, 1904-**, see also McKinley, C., & *others*. Case for limited modification cabotage. 1944. No. 24090.

**RETTIE, JAMES CARDNO, 1904-**, see also McKinley, C., & *others*. U. S. Canadian post-war civil aviation. 1944. No. 24091.

**RETTIE, JAMES CARDNO, 1904-**, see also Mirick, S., & *others*. Feasibility of automobile ferry SE Alaska. 1944. No. 24381.

**RETTIE, JAMES CARDNO, 1904-**, see also U. S. National Resources Planning Board. Region 10. Post war economic development Alaska. 1942. No. 26964.

**25468. RETTY, JOSEPH ARLINGTON, 1904-**, and A. E. MOSS. Iron-ore deposits of new Quebec and Labrador. (Geological Society of America. Bulletin, Dec. 1951. v. 62, p. 1471-72) Abstract of paper submitted to the Society's meeting in Detroit, Nov. 8-11, 1951.

*Copy seen:* DGS.

**25469. RETTY, JOSEPH ARLINGTON, 1904-**. Iron ore galore in New Quebec—Labrador. (Canadian geographical journal, Jan. 1951. v. 42, p. 2-21, incl. 6 p. of illus., 2 maps)

Profusely illustrated article on the recently discovered deposit, bringing together for the general reader, basic information on history of mineral exploration, surface features of the region (55° N. 67° W.), aerial transportation, the type and estimate of ore; remarks on the camp, and beginning of work on railroad and power facilities; production plans, the financing and marketing of this ore; the future for iron ore in the Canadian economy.

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**25470. REUSCH, HANS HENRIK, 1852-1922.** Aarborg for 1894 og 95: geologisk literatur vedkommende Norge 1890-95. Kristiania, A. W. Brøggers bogtr., 1896. vi, 148 p. (Norske geologiske undersøgelser, no. 21) *Title tr.:* Yearbook for 1894-95; geological literature concerning Norway for 1890-95.

*Contains a bibliography with sum-*

maries (some of 10-12 pages) of about 300 geological works on Norway published in 1890-95; indices are included.

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**25471. REUSCH, HANS HENRIK, 1852-1922.** Aarhog for 1901: geologisk litteratur vedkommende Norge 1898-1900. Kristiania, H. Aschehoug & Co., 1902. viii, 136 p. front., 4 plates. (Norges geologiske undersøgelse, no. 33) **Title tr.:** Year book for 1901; geological literature concerning Norway for the years 1896-1900.

Contains an annotated bibliography of about 250 items on the geology of Norway for the years 1896-1900, with extensive summaries of some works, p. 1-109; a subject index, p. 110-23; a geographic index, p. 124-36, and obituary notes on four Norwegian geologists who died in 1896-1900, p. iii-viii.

**Copy seen:** MH-Z.

**25472. REUSCH, HANS HENRIK, 1852-1922.** Norges geologi. Kristiania, H. Aschehoug & Co., 1910. viii, 196 p., illus., map. (Norges geologiske undersøgelse, no. 50) **Title tr.:** Geology of Norway.

Contains a general sketch of the geology of Norway; its geological history and the geological survey of the country by regions, including Nordland (p. 122-34), Tromsø (p. 134-36) and Finnmark (p. 136-39); with data on geological structure, composition of rocks, deposits of marble, iron and copper ores and some building stones; notes on the Jurassic field of Andø Island (p. 143-50); glacial and post-glacial epoch in Norway fossil fauna of that period and peat deposits.

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**25473. REUTER, ENZIO RAFAEL, 1867-1951.** Index generum et specierum seriei Notulæ entomologicae. Vol. 1 (1921)-25 (1945). Helsingforsiae, Tilgman, 1949. vi, 190 p. (Notulæ entomologicae, Index 1-25) **Title tr.:** Index of the genera and species in volumes 1 (1921)-25 (1945) of *Notulæ entomologicae*.

Contains a classified index of genera and species published in v. 1-25 of *Notulæ entomologicae* edited by Entomological Society of Helsingfors (Societas entomologicae Helsingforsiensis), including many species native to northern regions of Finland and Scandinavia.

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**25474. REUTER, MÄRTA, 1902-** Pflanzenphänologische Beobachtungen in Finnland 1896, 1897, 1898 und 1899. Helsingfors, 1936. 107 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 85, no. 4) **Title tr.:** Plant phenological observations in Finland: 1896, 1897, 1898 and 1899.

Report similar to that of Kairamo for 1895, and of Brotherus, Pipping, and the present author for succeeding years, all listed in this Bibliography under these authors' names.

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**25475. REUTER, MÄRTA, 1902-** Pflanzenphänologische Beobachtungen in Finnland 1900, 1901 und 1902. Helsingfors, 1937. 76 p. (table map). (Bidrag till kännedom af Finlands natur och folk. Häfte 85, no. 5) **Title tr.:** Plant phenological observations in Finland: 1900, 1901 and 1902.

Report similar to those for earlier years published in this journal (see item above).

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**25476. REUTER, MÄRTA, 1902-** Pflanzenphänologische Beobachtungen in Finnland 1912. Helsingfors, 1935. 33 p. (tables). (Bidrag till kännedom af Finlands natur och folk. Häfte 78, no. 4) **Title tr.:** Plant phenological observations in Finland, 1912.

Report similar to those for earlier years published in this journal.

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**25477. REUTER, MÄRTA, 1902-** Pflanzenphänologische Beobachtungen in Finland, 1918, 1919 und 1920. Helsingfors, 1927. 76 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 80, no. 7) **Title tr.:** Plant phenological observations in Finland: 1918, 1919 and 1920.

Report from 72 observation points, 4 above the Arctic Circle, on the first appearance of buds, half-developed leaves, blossom, fruit and autumnal discoloration of leaves. For similar reports covering previous years (since 1895) see A. O. Kairamo, V. F. Brotherus and the present author in this Bibliography.

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**25478. REUTER, MÄRTA, 1902-** Pflanzenphänologische Beobachtungen in Finnland 1921, 1922 und 1923. Helsingfors, 1927. 57 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 80, no. 8) **Title tr.:** Plant-

phenological observations in Finland: 1921, 1922 and 1923.

Similar to previous years reports (see item above) with time of sowing, appearance of first ears and harvest are added.

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**25479. REUTER, MÄRTA, 1902-** . Pflanzenphänologische Beobachtungen in Finnland 1924, 1925 und 1926. Helsingfors, 1928. 46 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 80, no. 9) *Title tr.:* Plant phenological observations in Finland: 1924, 1925 and 1926.

Similar to this author's previous years' report in this journal.

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**25480. REUTER, MÄRTA, 1902-** . Pflanzenphänologische Beobachtungen in Finnland 1927, 1928, 1929 und 1930. Helsingfors, 1935. 65 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 85, no. 3) *Title tr.:* Plant phenological observations in Finland: 1927, 1928, 1929 and 1930.

Similar to previous years' reports by this author in this journal.

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**25481. REUTER, MÄRTA, 1902-** . Pflanzenphänologische Beobachtungen in Finnland 1931-1935. Helsingfors, 1941. 97 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 87, no. 4) *Title tr.:* Plant phenological observations in Finland, 1931-1935.

Report similar to those for previous years published in this journal.

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**25482. REUTER, MÄRTA, 1902-** . Pflanzenphänologische Beobachtungen in Finnland, 1936-1940. Helsingfors, 1942. 118 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 89, no. 1) *Title tr.:* Plant phenological observations in Finland, 1936-40.

Report similar to those for previous years, except that the altitude of the observation stations is omitted here and the plant nomenclature modernized.

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**25483. REUTER, MÄRTA, 1902-** . Pflanzenphänologische Beobachtungen in Finnland, 1941-1945. Helsingfors, 1948. 78 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 92, no. 1).

Report similar to that for 1936-40 by

this scientist. This report was previously listed as *Arctic Bibliography*, No. 14420.

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**25484. REUTER, MÄRTA, 1902-** . Tierphänologische Beobachtungen in Finnland 1897-1902. Helsingfors, 1939. 63 p. (tables). (Bidrag till kännedom af Finlands natur och folk. Häfte 87, no. 1) *Title tr.:* Animal phenological observations in Finland 1897-1902.

Observational data presented in tabular form were collected from 105 stations, nine of them north of the Arctic Circle. They cover most common birds, fishes, amphibians and insects; their migration, courting, nesting and wintering. For previous years' reports, see under K. E. Stenroos (1895) and K. M. Levander (1896); subsequent years' reports were worked up by K. M. Levander and by the present author.

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**25485. REUTER, MÄRTA, 1902-** . Tierphänologische Beobachtungen in Finnland. 1912. Helsingfors, 1930. 90 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 83, no. 2) *Title tr.:* Animal phenological observations in Finland 1912.

Based on reports from 69 observers (listed with their location) including a few in the North. Migrations (or appearance) and reproductive activities of birds, amphibia, fishes and insects are considered. Meteorological data are included. For previous years' reports see under K. E. Stenroos (for 1895) and K. M. Levander.

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**25486. REUTER, MÄRTA, 1902-** . Tierphänologische Beobachtungen in Finnland 1913. Helsingfors, 1930. 61 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 83, no. 4) *Title tr.:* Animal phenological observations in Finland 1913.

Similar in scope to report for 1912.

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**25487. REUTER, MÄRTA, 1902-** . Tierphänologische Beobachtungen in Finnland 1914. Helsingfors, 1930. 60 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 83, no. 6) *Title tr.:* Animal phenological observations in Finland 1914.

Similar in scope to reports for the years 1912 and 1913.

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**25488. REUTER, MÄRTA, 1902-** . Tierphänologische Beobachtungen in

Finland 1915. Helsingfors, 1931. 55 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 83, no. 7) **Title tr.:** Animal phenological observations in Finland, 1915.

Similar in scope to reports for 1912-14.

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**25489. REUTER, MÄRTA, 1902- .** Tierphänologische Beobachtungen in Finnland 1916. Helsingfors, 1931. 54 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 83, no. 8) **Title tr.:** Animal phenological observations in Finland 1916.

Report similar to those issued for the years 1912-1915.

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**25490. REUTER, MÄRTA, 1902- .** Tierphänologische Beobachtungen in Finnland 1917. Helsingfors, 1932. 39 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 84, no. 1) **Title tr.:** Animal phenological observations in Finland 1917.

Similar to previous years' reports.

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**25491. REUTER, MÄRTA, 1902- .** Tierphänologische Beobachtungen in Finnland 1918. Helsingfors, 1932. 34 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 84, no. 4) **Title tr.:** Animal phenological observations in Finland 1918.

Similar in scope and nature to earlier reports in this journal.

**Copy seen:** DLC.

**25492. REUTER, MÄRTA, 1902- .** Tierphänologische Beobachtungen in Finnland 1919. Helsingfors, 1932. 46 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 84, no. 6) **Title tr.:** Animal phenological observations in Finland 1919.

Similar to previous reports published in this journal.

**Copy seen:** DLC.

**25493. REUTER, MÄRTA, 1902- .** Tierphänologische Beobachtungen in Finnland 1920. Helsingfors, 1933. 39 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 84, no. 7) **Title tr.:** Animal phenological observations in Finland 1920.

Similar to previous years' reports published in this journal.

**Copy seen:** DLC.

**25494. REUTER, MÄRTA, 1902- .** Tierphänologische Beobachtungen in Finnland 1921. Helsingfors, 1933. 41

p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 84, no. 8) **Title tr.:** Animal phenological observations in Finland 1921.

Similar to previous years' reports published in this journal.

**Copy seen:** DLC.

**25495. REUTER, MÄRTA, 1902- .** Tierphänologische Beobachtungen in Finnland 1922. Helsingfors, 1933. 40 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 84, no. 9) **Title tr.:** Animal phenological observations in Finland, 1922.

Similar to earlier years' reports published in this journal.

**Copy seen:** DLC.

**25496. REUTER, MÄRTA, 1902- .** Tierphänologische Beobachtungen in Finnland 1923, 1924 und 1925. Helsingfors, 1934. 91 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 84, no. 10) **Title tr.:** Animal phenological observations from Finland 1923, 1924 and 1925.

Similar to earlier reports published in this journal.

**Copy seen:** DLC.

**25497. REUTER, MÄRTA, 1902- .** Tierphänologische Beobachtungen in Finnland 1926, 1927 und 1928. Helsingfors, 1934. 101 p. (tables). (Bidrag till kännedom af Finlands natur och folk. Häfte 85, no. 1) **Title tr.:** Animal phenological observations in Finland 1926, 1927 and 1928.

Observations from 47 stations, two of them north of the Arctic Circle. Covers over 100 birds, common fishes, several insects and one amphibian.

**Copy seen:** DLC.

**25498. REUTER, MÄRTA, 1902- .** Tierphänologische Beobachtungen in Finnland 1929 und 1930. Helsingfors, 1934. 69 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 85, no. 2) **Title tr.:** Animal phenological observations in Finland 1929 and 1930.

Similar to earlier years' reports in the same journal.

**Copy seen:** DLC.

**25499. REUTER, MÄRTA, 1902- .** Tierphänologische Beobachtungen in Finnland 1931-1935. Helsingfors, 1941. 57 p. (tables, map). (Bidrag till kännedom af Finlands natur och folk. Häfte 87, no. 3) **Title tr.:** Animal phenological observations in Finland 1931-1935.

Report similar to that of previous years covering 66 stations, 5 of them above the Arctic Circle.

**COPY seen:** DSI-M.

**25500. REUTER, MÄRTA, 1902-** Tierphänologische Beobachtungen in Finnland 1936-1940. Helsingfors, 1943. 62 p. (map, tables). (Bidrag till kännedom af Finlands natur och folk. Häfte 89, no. 2) **Title tr.:** Animal phenological observations in Finland 1936-1940.

Report similar to that of the previous years; data from 87 stations, five of them above the Arctic Circle. For similar report by this author, covering the years 1941-45, see *Arctic Bibliography*, No. 14421.

**COPY seen:** DA

**25501. REUTER, ODO MORANNAL, 1850-1913.** De hemipteris e Siberia orientali nonnullis adnotationes criticae. (Finska vetenskaps-societeten, Helsingfors. Översigt af förhandlingar, 1879. Bd. 21, p. 42-63) **Title tr.:** Critical annotations on some Hemiptera from eastern Siberia.

**Contains** a description of 37 forms of bugs from Irkutsk province and Sitka (i. e. Baranof) Island, Southeast Alaska. Three new genera and three new species are included.

**COPY seen:** DLC.

**25502. REUTER, ODO MORANNAL, 1850-1913.** Finlands och den Skandinaviska halföns Hemiptera Heteroptera. (Entomologisk tidskrift 1880, Årg. 1, häft. 3-4, p. 113-45, 211; 1881, Årg. 2, häft. 2, p. 61-93; 1882, Årg. 3, häft. 1, p. 65-81, häft. 3, p. 105-21, häft. 4, p. 163-72; 1884, Årg. 5, häft. 4, p. 173-85) **Title tr.:** Hemiptera Heteroptera of Finland and the Scandinavian Peninsula.

**Contains** a critical revision of all known species of true bugs (Hemiptera Heteroptera) from Finland and Scandinavian Peninsula, with keys to the families, subfamilies, genera and brief descriptions of the species; includes many species native to northern regions of Finland and Scandinavian Peninsula.

**COPY seen:** DA; MH-Z.

**25503. REUTER, ODO MORANNAL, 1850-1913.** Hemiptera Gymnocerata Scandinaviae et Fenniae. P. I. Cimicidae (Capsina). Helsingforsiae., Typogr. Societ. litter. fennicae, 1875. 206 p., plate. (Societas pro fauna et flora fennica. Acta, t. 1, [no. 1]) **Title tr.:** Gymnoceratus Hemiptera of Scandi-

navia and Finland. Pt. I. Cimicidae (Capsina).

**Contains** a systematic treatment of all known Scandinavian (including the Kola Peninsula) species of blood-sucking bugs of fam. Cimicidae, subfam. Capsina, with a synopsis of the genera, key, synonymy, Latin diagnoses and data on distribution; includes many species native to Lapland. Subsequent parts of this work have not been located.

**COPY seen:** DLC; MH-A.

**25504. REUTER, ODO MORANNAL, 1850-1913.** Hemipterologiska meddelanden. (Entomologisk tidskrift, 1882, Årg. 3, häft 1-2, p. 63-64, 102-103) **Title tr.:** Notes on Hemiptera.

**Contains** notes on eleven species new to hemipterous fauna of Sweden, including *Globiceps salicicola* and *Agallinastes wilkinsonii* native to Swedish Lapland. Summary in French.

**COPY seen:** DA; MH-Z.

**25505. REUTER, ODO MORANNAL, 1850-1913.** Hemipterologiska meddelanden II. (Entomologisk tidskrift, 1882, Årg. 3, häft. 4, p. 191-94, 208-209) **Title tr.:** Notes on Hemiptera, 2.

**Contains** some critical notes on four species of *Globiceps* and four of *Dicyphus*, including *G. salicicola* found in Finnish Lapland on various species of *Salix*; a supplement to the author's paper of the same title (see above). Summary in French.

**COPY seen:** DA; MH-Z.

**25506. REUTER, ODO MORANNAL, 1850-1913.** En nordamerikansk hemipter funnen i Norge. (Entomologisk tidskrift, 1907, Årg. 28, häft. 1, p. 81-82) **Title tr.:** A North American hemipter found in Norway.

**Contains** critical notes on a hemipter *Teratocoris viridis*, previously known from Labrador and the Lena River region in northeastern Siberia, then found in Bjerkeng, Tromsø, by Sparre-Schneider; comparison is made with other related species (*T. saundersi* and *T. viridis*).

**COPY seen:** DA; MH-Z.

**25507. REUTER, ODO MORANNAL, 1850-1913.** Synonymische Revision der von den älteren Autoren (Linné 1758-Laitreille 1806) beschriebenen palaearktischen Heteropteren, 1-2. (Finska vetenskaps-societeten, Helsingfors. Acta Societatis scientiarum fennicae, 1888. v. 15, p. 241-313; p. 443-812, 16 plates, 30 illus., 5 diagrs.) **Title tr.:** Synony-

mic revision of palaearctic Heteroptera described by earlier authors (Linné 1758-Laitreille 1806) 1-2.

*Contains* a general part with rules and principles to be followed for avoidance of confusion of nomenclature in this large order of bugs (p. 243-75); works used in this study (arranged according to authors, alphabetically, p. 277-313); list of 396 species of palaearctic Heteroptera, with synonyms, sources, authors, etc., (p. 445-738); bibliographical addenda (p. 739-42); corrigenda (p. 743-51) list of genera and species (p. 752-812). Bibliographical footnotes.

*Copy seen:* DLC.

**25508. REUTER, ODO MORANNAL, 1850-1913.** Till kännedomen om Sveriges Psylloder. (Entomologisk tidskrift, 1881. Årg. 2, häft. 3, p. 145-72, 175-76, illus.) *Title tr.:* Contribution to the knowledge of Psyllodae of Sweden.

*Contains* a critical revision of 60 Scandinavian species of jumping plant-lice of the fam. Psyllodae, parasitic on various plants, with synonymy, critical notes and data on biology, distribution and host plants; a list of species, of which the biology is not known or insufficiently known, p. 167-69; and another list of species arranged by their host plants, p. 169-71; includes at least 12 species native to Swedish Lapland; bibliographical footnotes. Summary in French.

*Copy seen:* DA; MH-Z.

**REVELLE, ROGER RANDALL DOUGAN, 1909-**, see Emery, K. O., & R. R. D. Revelle. Large floating is. Arctic O. 1951. No. 21663.

**25509. REVERDATTO, VIKTOR VLADIMIROVICH, 1891-** . Kratkiĭ obzor vidov roda *Poa* Krasnojarskogo kraja. Revisio brevis specierum generis *Poa* provinciae Krasnojarsk. (Akademiĭa nauk SSSR. Botanicheskiĭ institut. Botanicheskie materialy gerbariĭa, 1950. t. 12, p. 30-34) *Title tr.:* Brief review of the species of the genus *Poa* in Krasnojarsk province.

*Contains* a list of 36 species of gramineous genus *Poa* native to the Krasnojarsk region of western Siberia, and data on their distribution; including at least six species spreading over the Arctic Circle.

*Copy seen:* MH-A.

**25510. REVERDATTO, VIKTOR VLADIMIROVICH, 1891-** . Kriticheskie zametki o rode *Festuca* v Krasnojarskom

krae. Notulae criticae de genere *Festuca* in provincia Krasnojarsk. (Akademiĭa nauk SSSR. Botanicheskiĭ institut. Botanicheskie materialy gerbariĭa, 1949. t. 11, p. 56-61) *Title tr.:* Critical notes on the genus *Festuca* in the Krasnojarsk Region.

*Contains* critical notes and data on distribution of 23 species of gramineous genus *Festuca* in the northwestern Siberian region, including *F. malzevii*, *F. supina* and *F. brevifolia* native to its northern part.

*Copy seen:* MH-A.

**REVILLON FRÈRES, see** Mallet, T. Glimpses Barren Lands. 1930. No. 24142.

**REVILLON FRÈRES, see also** Mallet, T. Plain tales of the North. 1926. No. 24143.

**25511. REYNOLDS, ERNEST EDWIN, 1894-** . Nansen. London. G. Bles, [1932]. xi, 274 p., plates (inc. port.), 2 maps (1 fold.) New edition with "a few details" added was published by Penguin Books, Harmondsworth, Eng. 1949 (283 p., 2 sketch maps).

Informative biography for general readers with chapters on Nansen's early years, his first arctic trip on the sealer *Viking* in 1882, his sledge and ski trip across the Greenland icecap in 1888-89, the voyage and drift of the *Fram* during 1893-96, including Nansen's sledge trip northward over the ice of the Arctic Basin, and return to Franz Josef Land; his scientific work and development of oceanographic research in Norway, trip of the *Michael Sars* 1900, on the *Veslemøy* 1912 to investigate Svalbard waters; on the *Correct* to the Yenisey River and across Siberia in 1913. Nansen's international humanitarian activities after World War I, his work for the League of Nations, 1919-29 in connection with rehabilitation of prisoners of war, refugees, the American problem. Includes throughout, extensive excerpts from Nansen's reports and narratives on each enterprise.

*Copy seen:* DLC.

**25512. REZVOÏ, PETR DMITRIEVICH.** Gubki, sobrannye ekspeditsiei Instituta po izucheniu Severa na Novuiu Zemlju letom 1925 g. (Akademiĭa nauk SSSR. Zoologicheskiĭ muzel. Ezhegodnik, 1931, pub. 1932. t. 32, vyp. 4, p. 503-518, illus.) *Title tr.:* Sponges collected by the Expedition of the Institute for the Scientific

Exploration of the North to Novaya Zemlya in 1925.

Contains data on the sponge material collected in Barents and Kara Sea during Expedition to Novaya Zemlya in 1925 with critical notes on 23 species, including Russian and English (in the summary) descriptions of *Stylorella gorbunovi*, *S. timonovi* and *Ciocalypta minuta* n. spp. Summary in English.

**Copy seen:** DLC; MH-Z.

**25513. REZVOĬ, PETR DMITRIEVICH.** K faune gubok Karskogo i Barentsova morel. (Po materialam Karskoĭ ėkspeditsii "Talmyra" v 1921 godu). (Leningrad. Leningradskii nauchnyiĭ institut imeni P. F. Lesgafta. Izvestiia, 1924. t. 8, p. 241-50, illus., tables) **Title tr.:** Contribution to the sponge-fauna of the Kara and Barents Sea. (From materials of the Kara Expedition of the Talmyr in 1921).

Sixteen species are described, one of them new. Seven species are new for this area. Summary in English.

**Copy seen:** DLC.

**25514. RHODES, A. J., and others.** An outbreak of poliomyelitis in Canadian Eskimos in wintertime; laboratory investigations. (Canadian journal of public health, 1949. v. 40, p. 418-19, table) **Other authors:** E. M. Clark, A. Goodfellow, and W. L. Donohue.

Pathological specimens examined were from Eskimos involved in an epidemic of poliomyelitis at Chesterfield Inlet (on the west coast of Hudson Bay) in the winter of 1949. Polio virus, producing typical clinical and histological appearances in rhesus monkeys, was demonstrated in the brain and cord of 2 cases of suspected poliomyelitis. Virus was also demonstrated in 2 stool preparations and one sample of throat washing. There seems to be no doubt that the epidemic was one of acute anterior poliomyelitis. For description of epidemic, see Adamson, and others: Polyomyelitis in the Arctic, 1949.

**Note:** this paper, listed previously as *Arctic Bibliography* No. 14448, is included here for coordination with related material listed in this volume.

**Copy seen:** DSG.

**RHODES, A. J., see also Clark, E. M., & J. Rhodes.** Poliomyelitis Canadian Eskimos 2. 1951. No. 21227.

**RHODES, A. J., see also Clark, E. M., & A. J. Rhodes.** Poliomyelitis Canadian

Eskimos 3. Lansing antibody. 1952. No. 21228.

**25515. RIABCHIKOV, EVGENIIĬ IVAN. OVICH.** Severnoe sŭŭanie. Moskva-Leningrad, Izd-vo Glavsevmorput', 1946. 118 p. illus. (Series: Sovetskaiâ arktika i gody Otechestvennoĭ valny) **Title tr.:** Northern lights. (The Soviet Arctic during the War of the Fatherland).

Contains an informative but highly subjective account of the town of Noril'sk (69°20' N. 88°06' E.) and nearby Dudinka, and of life there during 1943-45. Includes sketch of early Russian penetrations in this region; and post-revolutionary developments; railroad and other construction and difficulties encountered; nickel and copper mines, their exploitation, and isolation of these metals; the electric power station; home life; schools, kindergartens, hospital, social and cultural activities; hothouse gardening; summer in the area, outings, sports; etc.

**Copy seen:** DLC.

**25516. RIABINKIN, A. N.** Otmorozheniâ i ikh lechenie. (Pediatriiâ, 1942. no. 6, p. 68-71) **Title tr.:** Frostbites and their treatment.

Contains discussion of the frequency of frostbite in various body regions; symptoms of frostbite of I-IV degree; first aid and subsequent therapy of the different types.

**Copy seen:** DLC.

**25517. RIABOV, ILLARION.** V avangarde sibirskogo zemledeliâ. (Sibirskie ogni, Jan.-Feb. 1952. v. 31, no. 1, p. 166-73) **Title tr.:** In the forefront of Siberian agriculture.

Contains a broad, popular report on the advances of agriculture, animal husbandry, etc., in Siberia; noting outstanding work of kolkhoz managers; experimental stations; scientific research; selection and acclimatization of grain, fodder, etc. Some of the problems and projects reported have significance for the North.

**Copy seen:** DLC.

**25518. RIABUKHIN, G. E.** The bituminous horizons of the eastern slope of the Urals and of the West-Siberian Plain. (Akademiâ nauk SSSR. Comptes rendus (Doklady), 1943. nouv. ser., v. 41, no. 3, p. 126-28)

"Points out a large number of localities in the Urals and west Siberian plain where bituminous deposits and other oil indications have been observed, some in drilling, and gives their geological hori-

rons. Also gives general observations on regions where petroleum accumulations are not likely to be found and others where there are possibilities." Geological Society of America, *Bibliography and index of geology*, 1943-44. v. 10, p. 113.

**Copy seen:** DLC.

**25519. RĪABUKHIN, G. E.** Novye dannye po geologii nizhnego techeniā Eniseiā. (Sovetskāiā geologiā, Nov. 1940. t. 8, no. 11, p. 21-34, map, table) **Title tr.:** New data on the geology of the lower Yenisey.

**Contains** new information on an area 100 km. or more wide and 1000 km. long on both sides of the river, from Igarka down to the Yenisey Bay. Includes chapters on orohydrography and geomorphology, stratigraphy, tectonics, oil, coal and mineral deposits. The data on oil, gas and coal occurrence and prospects are detailed and specific. Findings of copper-platinum ores are also reported. Bibliography (23 items).

**Copy seen:** DLC.

**25520. RICHARD, JULES, 1863-** Note sur les pêches effectuées par M. Ch. Rabot dans les lacs Enara, Imandra et dans le Kolozero. (Société Zoologique de France. Bulletin, 1889. t. 14, no. 5, p. 100-104) **Title tr.:** Notes on aquatic material collected by Ch. Rabot in the lakes Inari, Imandra and Kolozero.

**Contains** some physical and geographic data on fresh-water lakes Inari (Finnish Lapland) and Imandra and Kolozero (Russian Lapland), and table on distribution of 21 species (Cladocera, Copepoda, etc.) of plankton collected by C. Rabot during his trip to the Kola Peninsula in 1885. **Copy seen:** MH-Z.

**RICHARD, JULES, 1863-**, see also Guerne, J. de., & J. Richard. Note sur entomostacés de Nordland. 1889. No. 22272.

**25521. RICHARDS, HORACE GARDINER, 1906-** Postglacial marine submergence of arctic North America with special reference to the Mackenzie delta. (American Philosophical Society. Proceedings, Feb. 1950. v. 94, p. 31-37, illus.)

"Résumé of the late Pleistocene history of the northeast and arctic coasts of North America, with special reference to the marine elements such as emerged strand lines and fossil deposits", followed by the author's observations made in the Mackenzie delta in 1948, of its recent

deposits, bed rock to the east, the underground ice, earth mounds (pingos), surface geology and fossils, with remarks on Herschel Island and the arctic coast of Alaska, and on postglacial climate. Bibliography (26 items).

**Copy seen:** DLC.

**25522. RICHARDS, HORACE GARDINER, 1906-** Post-Wisconsin fossils from the west coast of Hudson Bay. Philadelphia, 1941. 10 p., 2 plates. (Academy of Natural Sciences of Philadelphia. Notulae naturae, no. 84)

**Contains** notes on the raised beaches and localities where collections were made near Churchill in northern Manitoba, at Eskimo Point, Chesterfield Inlet and Baker Lake in Keewatin District. Lists are given of about 20 species of fossil molluscs with localities indicated.

**Copy seen:** DSI-M.

**RICHARDS, W. R.,** see Hocking, B., & others. Observations bionomics N. mosquito species. 1950. No. 22640.

**25523. RICHENS, R. H.** Crop production in the Soviet Arctic. (Polar record, July 1951. v. 6, no. 42, p. 227-36)

**Contains** (on the basis of Russian reports and accounts of three foreign visitors: a botanist, an agriculturist and a journalist) outline of Soviet agriculturalists' efforts and achievement in providing conditions for plant growth in the North, also discussion of whether food and fodder could be supplied there more economically by transportation from milder climatic areas. Deals briefly with physiographic conditions and human settlement; in more detail with special methods of cultivation in relation to the limiting factors of low temperature, drought, poor soil; selection (not breeding) of varieties adapted to northern growth; cereals, root crops, green vegetables; forage crops; crops under glass; economics of production. Of cereals, oats and rye are grown widely and, since often not maturing, used largely as green forage, together with grasses and clovers. Potatoes are one of the most important crops, other root plants include turnips and swedes, carrots, table beets and radishes. Cabbage is the most successful green vegetable, and grown throughout the area; kohlrabi, cauliflower, lettuce, spinach, peas, etc., are also grown in the open. Crop production under glass is extensive and the sole method on the arctic islands where low temperatures

preclude farming in the open. Soviet arctic farming, developed largely to supply the quickly growing local industrial population, is according to a guarded estimate of the author, supplying about 40 per cent of the local forage demand; potatoes and vegetables about one per cent each.

**Copy seen:** DLC.

**RICHTER, CHARLES FRANCIS, 1900-**, see Gutenberg, B., & C. F. Richter. Seismicity of the earth. 1949. No. 22301.

**25524. RICHTER, HANS.** Das Raum-bild in der Polarforschung. (Polarforschung, 1950, pub. 1951. Bd. 2, Jahrg. 20, p. 338-41) **Title tr.:** The space diagram in polar research.

A few introductory remarks on the use of such diagrams in arctic regions, and a discussion of the nature of and techniques required for space diagrams.

**Copy seen:** DGS.

**RICHTER, SØREN, 1903-**, see Polar-år-boken. Norsk Polarinstitutt. 1951. No. 25177.

**25525. RICKETTS, EDWARD FLANDERS, 1896-1948, and J. CALVIN.** Between Pacific tides. An account of the habits and habitats of some five hundred of the common, conspicuous sea-shore invertebrates of the Pacific Coast between Sitka, Alaska, and northern Mexico. Stanford, Cal., Stanford University Press, [rev. ed.] 1948. xxvii, 365 p. illus., tables, diagrs.

Contains accounts of animals from the following habitats: protected outer coast (rocky shores, sandy beaches); open coast (rocky shores, sandy beaches); bay and estuary (rocky shores, sand flats, mud flats, eel grass); wharf piling (exposed piles, protected piles). The last section deals with the plankton of the Pacific coast. **Appendix** with: annotated systematic index and bibliography; bibliography of non-specific accounts (about 75 items). Bibliographical footnotes.

An earlier (1938) edition (320 p.) has practically the same content except for the chapter on plankton, bibliographic citations and some new illustrations in the revised edition. **Copy seen:** NNM.

**25526. RIEHL, HERBERT, and C. R. ELFORD.** Ocean analysis from coastal reports. [Chicago] 1943. 18 p., 15 fig., 2 tables. (Chicago. University. Institute of Meteorology, Misc. report no. 9)

"A method is outlined for obtaining

weather estimates and forecasts of a general nature over any ocean area of the middle and high latitudes for which aerological data from adjacent shores are available. The method of reconstructing the weather conditions over the ocean from shore data is illustrated by the analysis of two different weather situations over the northeast Pacific Ocean, using reports from the Pacific Coast, Alaska, and Honolulu only. Two independent analyses of each case were prepared to demonstrate that two forecasters using this method should arrive at the same conclusions."—*Meteorological abstracts and bibliography*, May 1952 v. 3, no. 5, p. 482. Bibliography (9 items).

**Copy seen:** DWB.

**25527. RIESE, WALTHER.** Structure and function of the brain of the new-born bear (*Ursus arctos* L.). (Revue canadienne de biologie, Fév. 1942. v. 1, p. 157-70, 2 plates)

Description of behavior after birth, and (in detail) the histology of the central nervous system of the bear cub. Bibliography (26 items).

**Copy seen:**

**25528. RIGG, GEORGE BURTON, 1872-**. Plant resources of the sea along the northwest coast and Alaska. (California fish and game, Oct. 1942. v. 28, p. 206-209)

General notes on chemical composition, and uses, both domestic and industrial, of brown, red and green algae and eelgrass; and their relative abundance on the Pacific coast. **Copy seen:** DL.

**25529. RIIS-CARSTENSEN, EIGIL, 1892-**. Farvandene omkring Grønlands. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 1, p. 63-84, illus. incl. 3 charts) **Title tr.:** Waters around Greenland.

Summary of information on the depths, currents and ice conditions around Greenland, including notes on the East Greenland, Irminger, West Greenland, and Labrador Currents, and on types of ice encountered. Bibliography (8 items).

**Copy seen:** DSI-M.

**25530. RIKHTER, ANDREĬ ALEK-SANDROVICH, 1871-1946.** K voprosu ob ékologii *Chrysobothris chrysostigma* L. Coleoptera (Buprestidae). (Akademiia nauk SSSR. Izvestiia, seriia 7. Otdelenie matematicheskikh i estestvennykh nauk, 1934. no. 9, p. 1411-22, illus., plates 1-3) **Title tr.:** On the ecology of the *Chryso-*

*bothris chrysostigma* L. Coleoptera (Buprestidae).

**Contains** data on the ecology, life cycle, injury to some trees (*Picea excelsa*) and geographic distribution of the flat-headed borer, widely distributed in the U.S.S.R. (Kola Peninsula, Yakutia and the coast of the Okhotsk Sea). Summary in English.

**Copy seen:** DLC; MH.

**25531. RIKHTER, G. D.** K bati-metricheskoj karte Iokostrovskoi i Babinskoi Imandry. Murmansk, 1929. 3 p. fold. map. (Leningradskoe obshchestvo estestvoispytatelei. Murmanskaja biologicheskaja stantsija. Raboty, t. 3, no. [12]) **Title tr.:** On the bathymetric map of Iokostrovskaya and Babinskaya Imandra.

The map (scale 1:100,000, bound at end of vol.) is a continuation of that in the previous volume of this journal. The explanatory text gives data on the area of these Kola Peninsula lakes (adjoining sections of the Imandra system approx. 67°30' N. 32° E.), their islands, open water, depth-measurements, etc. Summary in German.

**Copy seen:** DLC.

**RILEY, G. C.,** see Baird, P. D., & others. Baffin I. Exped. 1950; prelim. report. 1950. No. 20413.

**25532. RING, GORDON C.** The importance of the thyroid in maintaining an adequate production of heat during exposure to cold. (American journal of physiology, Oct. 1942. v. 137, p. 582-88)

**Contains** a report on experiments, with adult male rats, designed to elucidate the possible role of the thyroid in sensitizing the response to epinephrine. The calorigenic response to epinephrine under various conditions of thyroid activity was therefore studied, including reactions to prolonged exposure to cold. The results indicate that thyroxin potentiates the maximal metabolic response to cold as well as the response to epinephrine. Bibliography (10 items).

**Copy seen:** DLC.

**25533. RING, GORDON C.** Metabolism and body temperature of normal and adrenalectomized rats during exposure to cold. (American journal of physiology, May 1938. v. 122, p. 435-45, 6 fig.)

**Contains** a study on normal, partly and fully adrenalectomized rats. Complete adrenalectomy was found to depress many vital processes, which supposedly

include oxidation secondarily; removal of most of the adrenal cortex did not decrease the stimulating effect of cold and shows that the cortex probably has no importance in oxidation increase and nothing to do with the "master" reaction for oxidation at the temperatures studied. Bibliography (16 items).

**Copy seen:** DLC.

**25534. RING, GORDON C.** Thyroid stimulation by cold, including the effect of changes in body temperature upon basal metabolism. (American journal of physiology, Feb. 1939. v. 125, p. 244-50)

**Contains** a report based on short and long exposures of rats to cold. Short exposure to cold was followed by elevation of the basal metabolism associated with a rise in body temperature; long exposure to 0°-5° C. brought about an average rise in metabolism of 21 per cent (corrected for changes in body temperature this becomes 16 per cent); this increased metabolism was brought about largely by the thyroid; nervous pathways through the superior cervical ganglia are not essential for cold-stimulation of the thyroid. Bibliography (24 items).

**Copy seen:** DLC.

**25535. RINGDAHL, OSCAR, 1885-** Anteckningar till Svenska arter av familjen Scopeumatidae (Diptera). (Entomologisk tidskrift, 1936. Årg. 57, häft. 2-3, p. 158-79, illus.) **Title tr.:** Critical notes on Swedish species of the family Scopeumatidae (Diptera).

**Contains** a critical revision of the Swedish species, with keys to the genera and species, and a systematic list of 87 species (in 36 genera), a survey of geographic distribution and German diagnoses of one new genus (*Megaphthalmoides*) and eight new species, including four native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25536. RINGDAHL, OSCAR, 1885-** Anteckningar till svenska arter av fam. Sepsididae (Diptera). (Entomologisk tidskrift, 1934. Årg. 55, häft. 1, p. 1-5, illus.) **Title tr.:** Notes on Swedish species of the family Sepsididae. (Diptera).

**Contains** keys to the genera of the sepsids, and to the species of the genus *Themira* and a list of 15 Swedish species with critical notes and data on distribution; includes four *Themira* species native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25537. RINGDAHL, OSCAR, 1885-** . Anteckningar till svenska arter av släktet *Platychirus* St. Farg. et Serv. (Diptera: Syrphidae). (Opuscula entomologica, 1936. Bd. 1, häft. 1, p. 1-3, illus.) **Title tr.:** Notes on Swedish species of the genus *Platychirus* St. Farg. et Serv.

*Contains* a brief survey of Swedish species of dipterous genus *Platychirus*, including critical notes on *P. melanopsis*, *P. ovalis* and *P. hyperboreus* from the Abisko region, Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25538. RINGDAHL, OSCAR, 1885-** . Anteckningar till svenska bromsar av undersläktet *Tylostypia* End. (Entomologisk tidskrift, 1943. Årg. 64, häft. 3-4, p. 167-72) **Title tr.:** Notes on Swedish horsefly of the subgenus *Tylostypia* End.

*Contains* a table for the determination of Swedish species of the subgenus *Tylostypia* (*Theriopectes*) of the dipterous genus *Tabanus*, and brief descriptions of 14 horseflies, including six species native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25539. RINGDAHL, OSCAR, 1885-** . Anteckningar till våra *Eristalis*-arter (Diptera: Syrphidae). (Opuscula entomologica, 1941. Bd. 6, häft. 2-4, p. 63-66) **Title tr.:** Notes on Swedish species of the genus *Eristalis* (Diptera: Syrphidae).

*Contains* a revision of 19 Swedish syrphus flies, with table for the determination of the species of the genus *Eristalis* and a survey of their geographic distribution in Sweden, including 13 species, native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25540. RINGDAHL, OSCAR, 1885-** . Bestämningstabell jämte utbredningsuppgifter till svenska arter av släktet *Limnophora* R. D. (Diptera: Muscidae). (Entomologisk tidskrift, 1941. Årg. 62, häft. 3-4, p. 206-211) **Title tr.:** A table for the determination and data on geographic distribution of Swedish species of the genus *Limnophora* R. D. (Diptera: Muscidae).

*Contains* a survey of the subgenera of the anthomyid genus *Limnophora*, a table for the determination of male and female species, an enumeration of 67 Swedish species, with descriptions of 2 new species and a review of geographic distribution of *Limnophora* species in Sweden; includes many species native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25541. RINGDAHL, OSCAR, 1885-** . Bidrag till kännedomen om de svenska tachinidernas utbredning. (Entomologisk tidskrift, 1937. Årg. 58, häft. 1-2, p. 31-38) **Title tr.:** Contributions to the knowledge of the distribution of Swedish species of tachina flies.

*Contains* a list of all known species of tachina flies (Tachinidae) with data on distribution in Sweden, based mostly on the study of collection in the State Museum at Stockholm, including a few species native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25542. RINGDAHL, OSCAR, 1885-** . Bidrag till kännedomen om de svenska *Zelima* (*Xylota*) arterna (Diptera: Syrphidae). Mit Beschreibung der neue Art *Zelima suecica* Ringd. (Opuscula entomologica, 1943. Bd. 8, häft. 1-2, p. 19-23, illus.) **Title tr.:** A contribution to the knowledge of Swedish species of *Zelima* (*Xylota*) (Diptera: Syrphidae) with a description of a new species *Z. suecica* Ringd.

*Contains* a key for the determination of Swedish species of the dipterous family Syrphidae and critical notes on 15 syrphus flies of the genus *Zelima*, including seven species native to Swedish Lapland; the new species was found in Jämtland.

**Copy seen:** DA; MH-Z.

**25543. RINGDAHL, OSCAR, 1885-** . Bidrag till kännedomen om en del av Zetterstedts tachnid-typer (Diptera). (Entomologisk tidskrift, 1934. Årg. 55, häft. 3-4, p. 266-72) **Title tr.:** Contributions to the knowledge of Zetterstedt's tachnid types (Diptera).

*Contains* a critical revision of 48 types of dipterous family Tachinidae described by Zetterstedt, and their interpretation in the light of modern taxonomy; includes 20 species described by Zetterstedt in his *Insecta lapponica*, 1840, q. v.

**Copy seen:** DA; MH-Z.

**25544. RINGDAHL, OSCAR, 1885-** . Catalogus insectorum Sueciae XI. Diptera Cyclorrapha: Muscaria Schizometopa. (Opuscula entomologica, 1952. Bd. 17, häfte 3, p. 129-86, text map) **Title tr.:** Insects catalog of Sweden XI. Diptera Cyclorrapha: Muscaria Schizometopa.

*Contains* a systematic list of 1109 species, comprising the families Corduluridae, Muscidae and Tachinidae, forming the large group Muscaria Schizometopa, with tabulated data on their dis-

tribution in 30 regions of Sweden, including all Lapland regions and Norrbotten, and in adjoining countries, supplemented by notes on 28 species. For other parts, see *Catalogus insectorum Sueciae*, I-XII.

**Copy seen:** MH-Z.

**25545. RINGDAHL, OSCAR, 1885-** .  
Diptera Brachycera. (In: Brinck, P. S. V., and K. G. Wingstrand, *Mountain fauna of Virihaure*, 1949-51. pt. 2, p. 101-107)

Contains a systematic list of 86 brachycerous flies, in 14 families, inhabiting the Virihaure region of Lule Lappmark, with data on habitat and distribution throughout Sweden.

**Copy seen:** MH-Z.

**25546. RINGDAHL, OSCAR, 1885-** .  
Diptera Brachycera i regio alpina. (Entomologisk tidskrift, 1939. Årg. 60, häft. 1-2, p. 37-50) **Title tr.:** Diptera Brachycera in the alpine region.

Contains a systematic list of brachycerous flies known from the alpine region of Sweden, which includes the mountainous part of Lapland (Njulja, Vassitjokko and Tjuonajaure), with a list of 29 species from the Torneträsk region of Lapland, and other lists showing their distribution in adjoining regions (Jämtland, Harjedalen).

**Copy seen:** DA; MH-Z.

**25547. RINGDAHL, OSCAR, 1885-** .  
Diptera der Fam. Muscidae (die Gattungen *Aricia* and *Anthomyza*) von Zetterstedt in "Insecta-Lapponica" und "Diptera Scandinaviae" beschrieben. (Opuscula entomologica, 1939. Bd. 4, häft. 3-4, p. 137-59) **Title tr.:** Diptera of the family Muscidae (genera *Aricia* and *Anthomyza*) described by Zetterstedt in his *Insecta Lapponica* and *Diptera Scandinaviae*.

Contains a critical study of flies of the genera *Aricia* and *Anthomyza*, described by Zetterstedt q. v., and a list of about 100 species of *Anthomyza* (*Insecta Lapponica*), another list of 150 species of *Aricia* (*Diptera Scandinaviae*) and a list of 120 species of *Anthomyza* (*Diptera Scandinaviae*) with critical notes and synonymy.

**Copy seen:** DA; MH-Z.

**25548. RINGDAHL, OSCAR, 1885-** .  
Dipterologische Notizen, 3. Bemerkungen zu schwedischen Sciomyziden. (Opuscula entomologica, 1948. Bd. 13, häft. 2, p. 52-54, illus.) **Title tr.:** Dipterological notes, 3. Comments on Swedish Sciomyzidae.

Contains a table for the determination of Swedish species of the dipterous genus *Sciomyza*, including *S. lapponica* n. sp. found near Gällivare, Swedish Lapland and *S. griseocollis* collected in Abisko, Torne Lappmark.

**Copy seen:** DA; MH-Z.

**25549. RINGDAHL, OSCAR, 1885-** .  
Dipterologische Notizen, 4. Zwei neue Musciden. (Opuscula entomologica, 1948. Bd. 13, häft. 3, p. 100) **Title tr.:** Dipterological notes, 4. Two new Muscidae.

Contains descriptions of two new flies, *Fannia hirsutinis*, found in Sorsele, southern Lapland, and *Spilogona magnicauda* n. sp. from Kvikkjokk, Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25550. RINGDAHL, OSCAR, 1885-** .  
Dipterologische Notizen, 8. Neue Musciden aus Schwedisch Lappland und Jämtland. (Opuscula entomologica, 1951. Bd. 16, häft. 1-2, p. 33-36) **Title tr.:** Dipterological notes, 8. New Muscidae from Swedish Lapland and Jämtland.

Contains diagnoses of six new flies, including five species collected at Abisko, Torne Lappmark, and an improved diagnosis of *Pegomya holmgreni* described from a male specimen captured for the first time.

**Copy seen:** DA; MH-Z.

**25551. RINGDAHL, OSCAR, 1885-** .  
Einige Mitteilungen über lappländische Dipteren. (Entomologisk tidskrift, 1931. Årg. 52, häft. 3-4, p. 171-74) **Title tr.:** Some communications on Diptera of Lapland.

Contains taxonomic notes on 21 dipters collected by the author in the Torneträsk region, Torne Lappmark, Sweden, including *Steringomya subalpina* n. nom.

**Copy seen:** DA; MH-Z.

**25552. RINGDAHL, OSCAR, 1885-** .  
Einige neue Anthomyiden aus Schweden. (Entomologisk tidskrift, 1916. Årg. 37, häft. 3-4, p. 233-39) **Title tr.:** Some new Anthomyidae from Sweden.

Contains descriptions of nine new species of flies of the family Anthomyidae, including *Mydaea bohemani* n. sp. of which a male specimen was found by Boheman in Lapland and a female specimen by the author in Jämtland.

**Copy seen:** DA; MH-Z.

**25553. RINGDAHL, OSCAR, 1885-** .  
Einige neue Musciden. (Konowia, 1934.

Bd. 13, Heft 2, p. 97-100) **Title tr.:** Some new Muscidae.

**Contains** diagnoses of nine new species of flies from various regions, including *Fannia norvegica* n. sp. collected by the author near Tromsø in northern Norway, on July 10, 1926. **Copy seen:** MH-Z.

**25554. RINGDAHL, OSCAR, 1885-** . Einige neue Musciden aus Schweden. (Entomologisk tidskrift, 1932. Arg. 53, häft. 2-3, p. 156-60) **Title tr.:** Some new Muscidae from Sweden.

**Contains** German descriptions of 12 new flies, including seven species native to the Abisko and Torneträsk regions of Swedish Lapland, and *Limnophora (Spilogona) norvegica* n. sp. collected near Narvik, northern Norway.

**Copy seen:** DA; MH-Z.

**25555. RINGDAHL, OSCAR, 1885-** . Flugor från Lapplands, Jämtlands och Härjedalens fjälltrakter (Diptera Brachycera). (Opuscula entomologica, 1951. Bd. 16, häft. 3, p. 113-86) **Title tr.:** Flies from the mountainous regions of Lapland, Jämtland and Härjedalen.

**Contains** notes on the history of the study of flies in these northern regions of Sweden; a list of localities (p. 117-18), a systematic list of 1363 species collected, with brief data on their distribution throughout Sweden; a synopsis of these species arranged by eight natural regions including arctic (31 species), arctic-subarctic (71 species) and arctic-high-boreal (94 species), p. 176-81, a list of species distributed in the entire mountainous region and another list of those endemic to the mountains of Torne and Lule Lappmark. Summary in German.

**Copy seen:** MH-Z.

**25556. RINGDAHL, OSCAR, 1885-** . Förteckning över de av Zetterstedt i Insecta Lapponica och Diptera Scandinaviae beskrivna tachiniderna mit synonymer jämte anteckningar över en dell arter. (Opuscula entomologica, 1945. Bd. 10, häft. 1-2, p. 26-35) **Title tr.:** A list of tachina flies described in Zetterstedt's *Insecta Lapponica* and *Diptera Scandinaviae* with synonyms and notes on some of these species.

**Contains** a systematic list of 218 tachina flies described in Zetterstedt, q. v., with their synonyms and critical notes on 118 species.

**Copy seen:** DA; MH-Z.

**25557. RINGDAHL, OSCAR, 1885-** . Förteckning över de i Sverige hittills

iakttagna arterna av familjen Dolichopodidae (Diptera). (Entomologisk tidskrift, 1928. Arg. 49, häft 4, p. 179-201) **Title tr.:** An enumeration of the species of the family Dolichopodidae (Diptera) hitherto known from Sweden.

**Contains** a systematic list of about 250 species of these long-legged flies known from Sweden, with localities and notes on habitat; a list of species distributed in all regions of Sweden; a synopsis of 31 arctic and subarctic representatives and a table of 44 species, with their distribution in arctic (alpine), subarctic (subalpine), and boreal regions of Sweden. **Copy seen:** DA; MH-Z.

**25558. RINGDAHL, OSCAR, 1885-** . For svenska faunan nya Diptera. (Entomologisk tidskrift, 1945. Arg. 66, häft. 1-2, p. 1-6) **Title tr.:** Diptera new to the fauna of Sweden.

**Contains** descriptive notes on 18 dipters new to the fauna of Sweden, including *Lasiops coquillettii*, known previously from Alaska, *Tetanocera lapponica* and *T. ornaticornis*, all found in the Abisko region of Swedish Lapland. Summary in German including descriptions of four genera (two new).

**Copy seen:** DA; MH-Z.

**25559. RINGDAHL, OSCAR, 1885-** . Några anteckningar till släktet *Mydaea* R. D. (Diptera: Muscidae). (Opuscula entomologica, 1936. Bd. 1, häft. 1, p. 44-47) **Title tr.:** Some notes on the genus *Mydaea* R. D. (Diptera: Muscidae).

**Contains** a table for the determination of 16 Swedish flies of the dipterous genus *Mydaea*, including five species native to Swedish Lapland and a description of one new species (Jämtland).

**Copy seen:** DA; MH-Z.

**25560. RINGDAHL, OSCAR, 1885-** . Några för Sverige nya arter av fam. Trypetidae (Diptera). (Opuscula entomologica, 1949. Bd. 14, häft. 1, p. 60) **Title tr.:** Some species of the family Trypetidae (Diptera) new to Sweden.

**Contains** a list of five species of the family Trypetidae new to the dipterous fauna of Sweden, including *Parozyna argyrocephala* and *Vidalia superciliata* found in Swedish Lapland. Summary in German.

**Copy seen:** DA; MH-Z.

**25561. RINGDAHL, OSCAR, 1885-** . Eine neue *Brachycoma*-Art. (Notulae entomologicae, 1932, v. 12, no. 1, p. 21) **Title tr.:** A new *Brachycoma* species.

*Contains a description of Brachycoma borealis* n. sp. native to Swedish (Abisko), Russian (Ponoy) and Finnish Lapland.

**Copy seen:** DLC; MH-Z.

**25562. RINGDAHL, OSCAR, 1885-** . Neue fennoskandische Musciden. (Notulae entomologicae, 1935. v. 15, no. 1-2, p. 26-31, illus.) **Title tr.:** New Fennoscandian Muscidae.

*Contains descriptions of eight new flies occurring in Fennoscandia including four species and one new subspecies native to Kuusamo, and Finnish and Swedish Lapland.*

**Copy seen:** DLC; MH-Z.

**25563. RINGDAHL, OSCAR, 1885-** . Neue nordische Anthomyiden. (Entomologisk tidskrift, 1918. Årg. 39, häft. 2, p. 148-94) **Title tr.:** New northern Anthomyiidae.

*Contains diagnoses of 24 new species of flies of the fam. Anthomyiidae collected mostly in the Abisko region, Torne Lappmark, and the tables for the determination of the species of the genera Limnophora and Acroptena.*

**Copy seen:** DA; MH-Z.

**25564. RINGDAHL, OSCAR, 1885-** . Neue nordische Musciden nebst Berichtigung und Namensänderungen. (Entomologisk tidskrift, 1926. Årg. 47, häft. 2, p. 101-18) **Title tr.:** New northern Muscidae with some corrections and name changes.

*Contains descriptions of 26 new species of northern flies (Muscidae, Anthomyiidae) including 16 species, native to Torne Lappmark, northern Sweden.*

**Copy seen:** DA; MH-Z.

**25565. RINGDAHL, OSCAR, 1885-** . Neue schwedische Tachiniden-Gattungen und Arten. (Opuscula entomologica, 1942. Bd. 7, häft. 3-4, p. 62-65) **Title tr.:** New Swedish genera and species of Tachinidae.

*Contains German diagnoses of four new genera and two new species of tachina flies, including Exorista lapponica* n. sp. found in alpine Nuolja region, Torne Lappmark.

**Copy seen:** DA; MH-Z.

**25566. RINGDAHL, OSCAR, 1885-** . Neue skandinavische Dipteren. (Entomologisk tidskrift, 1920. Årg. 41, häft. 1, p. 24-40) **Title tr.:** New Scandinavian Diptera.

*Contains descriptions of 12 new species of Diptera, all native to Swedish Lapland; and a key to 11 other dipters (male and*

*female)* mentioned in this article, including six from Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25567. RINGDAHL, OSCAR, 1885-** . Neue skandinavische Dipteren. (Entomologisk tidskrift, 1928. Årg. 49, häft. 1, p. 18-21, illus.) **Title tr.:** New Scandinavian Diptera.

*Contains German descriptions of eight new species of flies, including four native to Swedish Lapland and two found in Tromsø, northern Norway.*

**Copy seen:** DA; MH-Z.

**25568. RINGDAHL, OSCAR, 1885-** . Notizen zur Familie Dolichopodidae (Diptera). (Opuscula entomologica, 1949. Bd. 14, häft. 1, p. 53-59) **Title tr.:** Notes on the family Dolichopodidae (Diptera).

*Contains descriptions of two new species of dipters of the family Dolichopodidae, a synopsis of the species of the genus Porphyrops, some corrections of forms described earlier and a list of 25 species new to various regions of Sweden, including at least eight native to Swedish Lapland and Norrbotten.*

**Copy seen:** DA; MH-Z.

**25569. RINGDAHL, OSCAR, 1885-** . Nya fynd av holometopa flugor. (Entomologisk tidskrift, 1948. Årg. 69, häft. 1-2, p. 1-4) **Title tr.:** New finds of acalyptrate flies.

*Contains a systematic annotated list of 70 species (in 17 families) of acalyptrate flies (Muscidae acalyptratae) new to the dipterous fauna of some regions of Sweden, including 15 species new to the fauna of the whole country; includes Clusiodes pictipes and Psilolonchaea albiceps and Homalocephala bipunctata, native to Swedish Lapland, and Parhydra fovearum from Norrbotten.*

**Copy seen:** DA; MH-Z.

**25570. RINGDAHL, OSCAR, 1885-** . Översikt av de hittills i vårt land funna arterna tillhörande släktena Mydaea R. D. och Helina R. D. (Muscidae). (Entomologisk tidskrift, 1924. Årg. 45, häft. 1, p. 39-48, häft. 2-3, p. 49-66) **Title tr.:** A revision of the species of the genera Mydaea R. D. and Helina R. D. (Muscidae) known from Sweden.

*Contains a critical revision of all known Swedish species of flies of the genera Mydaea and Helina with tables for the determination of the species (male and female) with descriptive notes*

on 12 species of *Mydaea* (one new) and 47 of *Helina*; includes *M. bengtssoni* n. sp. native to Narvik, Norway and Abisko, Swedish Lapland, and at least 22 other species from Lapland.

**Copy seen:** DA; MH-Z.

**25571. RINGDAHL, OSCAR, 1885-** . Översikt av de i Sverige funna arterna av släktet *Atalanta* Meig. (*Clinocera* Meig.) inom fam. Empididae. (Entomologisk tidskrift, 1933. Årg. 54, häft. 3-4, p. 277-82, illus.) **Title tr.:** A revision of the species of the genus *Atalanta* Meig. (*Clinocera* Meig.) fam. Empididae found in Sweden.

**Contains** a critical revision of Swedish species of the genus of dance flies, with a key to the species and an enumeration of 12 species, including *A. lapponica* n. sp. and five other dipters from Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25572. RINGDAHL, OSCAR, 1885-** . Översikt av de i vårt land hittills funna arterna av släktet *Phaonia* R. D. (fam. Muscidae). (Entomologisk tidskrift, 1923. Årg. 44, häft 2, p. 117-40) **Title tr.:** A review of the species of the genus *Phaonia* R. D. hitherto found in our country [Sweden].

**Contains** a table for the determination of Swedish species (males and females) of dipterous genus *Phaonia* and brief descriptive and critical notes on 43 flies, including several species native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25573. RINGDAHL, OSCAR, 1885-** . Översikt av de svenska Hydrophoruserna. (Entomologisk tidskrift, 1919. Årg. 40, häft. 1, p. 12-17) **Title tr.:** A review of Swedish *Hydrophorus* species.

**Contains** a synopsis of 17 species of the dipterous genus *Hydrophorus*, including a German description of *H. albosignatus* n. sp., found at Gällivare, Swedish Lapland, and 10 other species native to the same region.

**Copy seen:** DA; MH-Z.

**25574. RINGDAHL, OSCAR, 1885-** . Översikt av i Sverige funna *Hylemyia*-arter. (Entomologisk tidskrift, 1933. Årg. 54, häft. 1, p. 1-34) **Title tr.:** A revision of *Hylemyia* species found in Sweden.

**Contains** a table for the determination of male species of the dipterous genus *Hylemyia*, descriptions of 12 new species and of two little known Zetterstedt's species; a list of 104 Swedish *Hylemyia* species, divided into nine groups, with occasional critical notes and data on dis-

tribution; includes five new and many previously described representing northern regions of Sweden.

**Copy seen:** DA; MH-Z.

**25575. RINGDAHL, OSCAR, 1885-** . Översikt av småsläktena inom familjen Muscidae. (Entomologisk tidskrift, 1945. Årg. 66, häft. 3, p. 95-106) **Title tr.:** A review of small genera in the family Muscidae.

**Contains** a review of 40 small genera in dipterous family Muscidae, with brief notes on 95 species, including many native to Swedish Lapland, and a synopsis of subfamilies, genera and amount of species (p. 106).

**Copy seen:** DA; MH-Z.

**25576. RINGDAHL, OSCAR, 1885-** . Översikt av Svenska *Fannia*-arter (Muscidae). (Entomologisk tidskrift, 1934. Årg. 55, häft. 2, p. 105-121, illus.) **Title tr.:** Revision of Swedish *Fannia* species (Muscidae).

**Contains** a critical revision of Swedish *Fannia* species, with keys to four related genera of flies and to the *Fannia* species and descriptive and critical notes on 43 species, including 11 native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25577. RINGDAHL, OSCAR, 1885-** . Översikt av svenska *Hydrotaea*-arter (Muscidae). (Entomologisk tidskrift, 1925. Årg. 46, häft. 1, p. 7-20) **Title tr.:** A survey of Swedish *Hydrotaea* species (Muscidae).

**Contains** a table for the determination of male and female flies of the gen. *Hydrotaea* and brief descriptions of 26 Swedish species with data on distribution; includes nine species native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25578. RINGDAHL, OSCAR, 1885-** . Översikt av svenska *Lasiops*-arter (Muscidae). (Entomologisk tidskrift, 1927. Årg. 48, häft. 1, p. 35-44) **Title tr.:** A review of Swedish species of *Lasiops* (Muscidae).

**Contains** a critical revision of Swedish flies of the genus *Lasiops* (Muscidae), with keys (males and females), descriptive notes on 18 species, and data on distribution in Sweden; includes 10 species native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25579. RINGDAHL, OSCAR, 1885-** . Översikt av svenska *Pegomyia*-arter (Diptera: Muscidae). (Entomologisk tidskrift, 1938. Årg. 59, häft. 3-4, p. 190-213, illus.) **Title tr.:** A revision of

Swedish species of the genus *Pegomyia* (Diptera: Muscidae).

Contains a critical revision of Swedish species of this fly with a table for the determination of subgenera and species and an enumeration of 51 species, including descriptions of three new species (*P. furva*, n. sp. from Abisko, Torne Lappmark) and at least 23 species native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25580. RINGDAHL, OSCAR, 1885-** .  
Översikt över de hittills från Sverige kända arterna av familjen Tachinidae (Diptera). (Entomologisk tidskrift, 1945. Årg. 66, häft. 4, p. 177-210) **Title tr.:** A survey of the species of the family Tachinidae now known from Sweden.

Contains keys to the genera and species of dipterous family Tachinidae and a systematic list of 367 species of Swedish tachina flies, with data on their distribution; includes many species native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25581. RINGDAHL, OSCAR, 1885-** .  
Översikt över svenska *Hydrophoria*-och *Acroptena*-arter. (Entomologisk tidskrift, 1946. Årg. 67, häft. 4, p. 158-68) **Title tr.:** A survey of Swedish species of *Hydrophoria* and *Acroptena*.

Contains a critical revision of 21 Swedish species of closely related dipterous genera *Hydrophoria* and *Acroptena*, with tables for the determination of male and female specimens and an enumeration of the species with critical notes and data on distribution; includes 17 species native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25582. RINGDAHL, OSCAR, 1885-** .  
Studier över släktet *Prosalpia* Pok. (Entomologisk tidskrift, 1942. Årg. 63, häft. 3-4, p. 134-46, illus.) **Title tr.:** Studies of the genus *Prosalpia* Pok.

Contains a critical revision of the dipterous genus *Prosalpia*, with a table for the determination of the male and female forms, and descriptions of 16 Swedish species, including 13 native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25583. RINGDAHL, OSCAR, 1885-** .  
Übersicht der in Schweden gefundenen *Hylemyia*-Arten mit posteroventraler Apikalborste an den Hinterschienen. (Entomologisk tidskrift, 1929. Årg. 50, häft. 3-4, p. 268-73, illus.) **Title tr.:**

A revision of Swedish species of *Hylemyia* with a posteroventral apical seta on the posterior tibia.

Contains a table for the determination of Swedish species of the genus *Hylemyia* with three new subgenera, a list of 17 species, occurring in Sweden, including 11 native to Swedish Lapland, and diagnoses of *Hylemyia* (*Acrostilpna* n. subgen.) *luteisquamata*, *H. collini* and *H. (melinia* n. subgen.) *karli* n. spp. found in Abisko, Torne Lappmark. **Copy seen:** DA; OU.

**25584. RINGDAHL, OSCAR, 1885-** .  
Übersicht der mir bekannten skandinavischen *Pegohylemyia*-Arten (Diptera: Muscidae). (Entomologisk tidskrift, 1952. Årg. 73, häft. 3-4, p. 231-38, illus.) **Title tr.:** A revision of the Scandinavian *Pegohylemyia* species (Diptera Muscidae) known to me.

Contains a table for the determination of common flies of the dipterous genus *Pegohylemyia*, inhabiting the Scandinavian Peninsula, with a diagnosis of *P. norvegica* encountered near Tromsø in northern Norway. A list of 31 other species is offered with data on their distribution; at least 15 of these species are native to northern regions of Scandinavia.

**Copy seen:** MH-Z.

**25585. RINGDAHL, OSCAR, 1885-** .  
Våra *Cinxia* (*Sericomyia*) arter. (Entomologisk tidskrift, 1922. Årg. 43, häft. 2-4, p. 178-79) **Title tr.:** Our *Cinxia* (*Sericomyia*) species.

Contains a key for the determination of four species of northern Swedish species of *Cinxia* (*Sericomyia*), including *C. arctica* and *C. lappona*, and the German analysis of *C. intermedia*, n. sp. found by the author near Abisko, Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25586. RINGDAHL, OSCAR, 1885-** .  
Vier neue Anthomyiden. (Notulae entomologicae, 1932. v. 12, no. 1, p. 19-20) **Title tr.:** Four new Anthomyidae.

Contains descriptions of four new anthomyiid flies: *Monochrotogaster unicolor* n. gen. n. sp., *Hylemyia* (*Eurydactylomyia* n. subgen.) *freyi* and *Pegomyia helleni* native to Kola Peninsula, and *Coenosia annulipes* from Finnish and Russian Lapland.

**Copy seen:** DLC; MH-Z.

**RIORDAN, JOHN T.,** see Paul, J. R., & others. Antibodies polio. N. Alaskan Eskimos. 1960. No. 24995.

**RIORDAN, JOHN T.,** *see also* Paul, J. R., & J. T. Riordan. Observations polio. Alaskan Eskimos. 1950. No. 24996.

**RIORDAN, JOHN T.,** *see also* Paul, J. R., & others. Serological epidemiology N. Alaskan Eskimos. 1951. No. 24997.

**25587. RITAVUORI, JALMARI.** Kuusamon alueella (KS) uusia perhosia Sallasta. (Suomen hyönteistieteellinen aikakauskirja, 1938. vol. 4, no. 3, p. 187-88) *Title tr.:* New butterflies from Salla in the Kuusamo area.

Lists 24 large butterflies (Macrolepidoptera) found in this part of northern Finland, which are not recorded in Th. Grönblom's *Verzeichnis der Gross-Schmetterlinge Finnlands (Arctic Bibliography, No. 6270).* *Copy seen:* DLC.

**25588. RITAVUORI, JALMARI.** Kuusamon alueella uusia tahi harvinaisia suurperhosia (Macrolep.). (Suomen hyönteistieteellinen aikakauskirja, 1935. vol. 1, no. 4, p. 147-48) *Title tr.:* New and/or rare large butterflies (Macrolepidoptera) in the Kuusamo area.

Simple list of 40 species, including 29 new to the area, collected by the author, also by Fr. Brandt in 1935, near Kuolajärvi River. *Copy seen:* DLC.

**25589. RITCHIE, M. M., and J. ROUSSEAU.** Reconnaissance along George River, New Quebec (Ungava). (Quebec [Province]. Dept. of Mines. The mining industry of the Province of Quebec in 1947, *pub.* 1949. p. 20-22. *Pub.* also in French edition, p. 18-19)

Brief summary of information, prepared by M. M. Ritchie from J. Rousseau's notes made in 1947, on the physiography, vegetation and geology of the George River. *Copy seen:* DGS.

**RŪKLI, R.,** *see* Puzakov, N. A., & others. Vliianie promerzaniia na ustoi-chivost'. 1948. No. 25315.

**25590. ROBERTS, VICTORIA P.** Let's go to Alaska: a factual pictorial story for young people and travellers. Los Angeles, Wetzel Pub. Co. [c1951]. 108 p., illus.

*Contains* an account of the discovery and first settlements of Alaska, travel to Alaska at present, famous glaciers, icebergs, Mt. McKinley and the park; whaling and fishing; wildlife; flowers; mining; totem poles and other attractions of the country. *Copy seen:* DLC.

**25591. ROBERTS, ARTHUR G.** Help for huskies. (Forest and outdoors, Nov. 1947. v. 43, no. 11, p. 376-77, illus.)

*Contains* notes on the decline of dog-sledge traffic due to competition from the airplane and consequent diminishing in breeding of huskies; Canadian federal government work in improving the race of the huskies; work of the Animal Disease Research Institute at Hull, P. Q., on rabies in the Arctic; theories on the origin of the disease in this area.

*Copy seen:* DA.

**25592. ROBERTS, BRIAN BIRLEY.** Abstract of the Universal Decimal Classification for the use of the Scott Polar Research Institute, Cambridge. [Cambridge, Eng.] 1950. 173 p. mimeographed. Supplement issued Nov. 1950. 5 p. Sup. 2, June 1952, 23 p.

Introductory notes on basic problems in documentation and elements of the Universal Decimal Classification as a method of arrangement for document files; systematic tables of (1) this classification scheme for polar (subject) material, p. 9-89; also (2) a revised regional classification for polar material, p. 90-98; and a relative (alphabetic) index of subjects, p. 99-173.

*Copy seen:* CaMAI.

**ROBERTS, ELLIOTT B.,** *see* Knapp, D. G., & E. B. Roberts. Geomag. cosmic & prosaic. 1952. No. 23310.

**ROBERTS, HELEN G.,** *see* Matson, G. A., & H. G. Roberts. Distribution blood groups Eskimos of Kuskokwim. 1949. No. 24235.

**ROBERTS, J. M.,** *see* Harrison, R. J., & others. Reproduction in some Pinnipedia. 1952. No. 22448.

**25593. ROBERTS, PALMER W., and F. A. F. COOKE.** Arctic tower foundations frozen into permafrost. (Engineering news-record, Feb. 9, 1950. v. 144, no. 6, p. 38-39, illus.)

Description of process used by the U. S. Navy Bureau of Yards and Docks in construction of a radio tower in northern Alaska in 1947. "Four massive concrete footings were placed on permafrost several hundred feet thick as supports for a 200-ton, four-legged tower, in northern Alaska. The base of each foundation was a heavily reinforced concrete slab resting on 9 pilings made of 8-in. well casings 30 ft. long, which were filled with clean, dry sand within 5-ft. of the top

and frozen into the permafrost. The excavation was covered with 1-ft. layer of sand and 4-in. of glass fiber insulation followed by an additional 6-in. layer of sand. Adequate frost protection was provided each concrete pedestal for a maximum period of four days after pouring. Electrical resistance thermometers were used to check thawing of the soil resulting from the heat of hydration of the newly poured concrete. Water which appeared around the foundation was removed by pumps until the temperature at the footings came to equilibrium with the surrounding soil."—SIPRE.

**Copy seen:** DGS; DLC.

**25594. ROBERTS, PALMER W.** Effects on materials in arctic cold, 1-2. (Military engineer, May/June-Nov./Dec., 1950. v. 42, p. 176-78, 272-73, 366-69, 452-55, illus., diagrs.)

The first part on concrete, ice and water deals with the use of snow, "snowcrete" (snow compacted by natural or artificial means), ice and "icecrete", (a mixture of sand or gravel with ice as cementing agent) for construction. Pt. 2 on wood and metals includes data on strength tests of wood, and physical properties of steel, stainless steel, cast iron, lead, solders, copper and alloys, and aluminum alloys. Pt. 3 on plastics, rubber, glass, fabrics, and leather contains notes on the cold weather use of these materials, and tabular presentation of the resin group with trade names, forms available and uses of nineteen commercial plastics, brief notes on behavior in reduced temperatures of rubber, glass and fabric, and discussion of the Eskimo versus commercial method of tanning leather for cold weather uses. Pt. 4 on fuels, lubricants, engine coolants, explosives, and equipment comprises notes and lists of fuels and lubricants which provide satisfactory service for cold weather, discussion of anti-freezes, comments on testing and handling of explosives, and on care and specifications of equipment (batteries, machines, ropes, and bolts).

**Copy seen:** DGS; DLC.

**25595. ROBERTSON, ELIZABETH CHANT.** Family allowances in the Canadian Arctic. (Polar record, Jan. 1952. v. 6, no. 43, p. 345-47)

Contains an outline of the administration of Canadian family allowances (\$5. to \$8. per child) among the Eskimo population (approx. 7600); local police (R. C. M. P.) and traders (Hudson's Bay

Co.) registering the children, and defraying the allowances "in kind." Vital statistics, health conditions and distribution of Eskimos is noted. Discussion follows on the adverse effect of "trade goods" on the Eskimo, supplanting his natural, healthier diet and traditional clothing. Steps taken in family allowance administration to offset such ill effects are outlined: guidance and control of purchases in food and clothing (restraining that of flour, promoting milk, pabulum, fruit juices, eggs, oats, vegetables, cheese, beans, etc.); stimulation of native hunting by supply of equipment and suspension of the allowance if it influences the Eskimo to abandon hunting and become a "post" dweller.

**Copy seen:** DLC.

**ROBINSON, BURTON W.,** see Johnson, W. M., & others. Correlation climatol. data Bering Sea & Aleutian I. 1944. No. 23008.

**ROBINSON, D. L.,** see Höhn, E. O., & D. L. Robinson. Some suppl. bird notes Mackenzie delta & Gt. Slave L. 1951. No. 22648.

**25596. ROBINSON, JOHN LEWIS, 1918-** . Canada's western Arctic. (Canadian geographical journal, Dec. 1948. v. 37, p. 242-60, illus., map)

General description of the physiography, climate, resources, population and transportation, and a sketch of the history of the southwestern arctic islands, and the area north of the tree line and west of Boothia Peninsula.

**Copy seen:** DGS; DLC.

**25597. ROBINSON, JOHN LEWIS, 1918-** . Changing the arctic maps. (Beaver, Dec. 1951, p. 8-9, map; and Mar. 1952, p. 24-26, map)

Author notes that "during the last few years, the R. C. A. F. photo squadrons have extended their operations northward to photograph virtually all of this previously poorly-mapped part of Canada . . . Many noteworthy changes have appeared in the outline of the coasts of the Arctic Islands". Some of these changes are indicated and earlier mapping and exploration of various islands by Stefansson, Sverdrup, Nares, McClintock, Parry and others, is sketched. The second part of this article deals with the mainland and islands south of 75° N. lat.

**Copy seen:** CaMAI.

**25598. ROBINSON, JOHN LEWIS, 1918-**, and **M. J. ROBINSON.** The geography of Canada. Toronto, [etc.] [c1950]. xiii, 205 p. illus., maps, diagrs.

*Contents* of this secondary school textbook include chapters on topography and landforms, drainage, mining and mineral resources, fur, fishing, and transportation, all of which deal in part with the North. Regional descriptions are given of Newfoundland and Labrador, p. 108-113, the Canadian Shield, p. 126-39, the Hudson Bay lowland, p. 140-42, Yukon Territory, p. 171-78, Mackenzie valley, p. 179-87, and the Canadian Arctic Islands, p. 188-97.

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**25599. ROBINSON, JOHN LEWIS, 1918-**. Report on physical geography study of the western Arctic, August, 1947. Ottawa, Northwest Territories and Yukon Services, Lands and Development Services Branch [1947?]. 23 l., map. Reproduced from typewritten copy.

Report of a study made by airplane, roughly on a line: Great Slave Lake - Somerset Island during Aug. 19-31, 1947. Following outline of the itinerary, data is given on topography, mapping; geology; ice conditions; vegetation; animal life. Map showing route is attached.

**Copy seen:** DLC.

**ROBINSON, JOHN LEWIS, 1918-**, see also Amerikanskil Sever; sbornik statef. 1950. No. 20180.

**ROBINSON, JOHN LEWIS, 1918-**, see also Canada. Dept. of Mines & Technical Surveys. Geographical Branch. Introduction to geog. of Canadian Arctic. 1951. No. 21096.

**ROBINSON, JOHN LEWIS, 1918-**, see also Canadian geographical journal. 1949-50 suppl. to A regional bibliography. 1950-1951. No. 21116.

**ROBINSON, M. JOSEPHINE**, see Amerikanskil Sever; sbornik statef. 1950. No. 20180.

**ROBINSON, M. JOSEPHINE**, see also Robinson, J. L., & M. J. Robinson. Geog. of Canada. 1950. No. 25598.

**25600. ROBINSON, ROBERT.** Permafrost—arctic building problem. (Constructor, June 1947. v. 29, no. 6, p. 28-32, illus. Reprinted from Federal science progress, May 1947)

Clear, non-technical article, with useful

diagrammatic illustrations, of the ground characteristics, physical processes, and building problems of permafrost. "Permafrost occurs in Alaska, Canada, and Siberia and varies in depth from a few feet to 1400 ft. Permafrost in sub-arctic regions is covered with an active layer of soil subject to seasonal freezes and thaws. A talik layer which rarely freezes is often found between the active layer and the permafrost table. Ground water, talik islands, ice veins and lenses create construction problems by swelling, sinking, seeping, and icing. The basic tactic in construction is the maintenance of the thermal regime between the permafrost and the active layer by insulation. Adequate insulation is attained by providing a gravel mat or an air space between the ground and the structure. Granular soils are chosen for sites whenever possible. Foundation piles are anchored in the permafrost. Research is being conducted by the Army Corps of Engineers in Alaska, at Purdue University, and at the University of Minnesota."—SIPRE.

**Copy seen:** DLC.

**25601. ROBLEY, ROBERT, and others.** Le spectre de l'aurore boréale du 25 au 26 janvier 1949. (Annales de géophysique, 1950. t. 6, nr. 1, p. 66-67, illus., table) Other authors: J. Briard and A. Kastler. *Title tr.*: The spectrum of the aurora borealis of January 25 to 26, 1949.

"The author describes a very intense aurora borealis observed at the Swedish observatory of Abisko. A curve of dispersion was constructed: from 6500 Å to 4500 Å with neon radiation, and from 4500 Å to 3500 Å with the best known auroral radiation. A table in which the measured radiations are compared with values obtained by Vegard is presented. Also, the infra-red spectrum of the aurora has been examined."—*Meteorological abstracts and bibliography*, Mar. 1951. v. 2, no. 3, p. 205. **Copy seen:** MH-BH.

**ROBLEY, ROBERT**, see also Victor, P. É., & others. Rapport prélim. 1949. 1950. No. 27104.

**25602. ROCH, ANDRÉ, and G. PIDERMAN.** Quer durchs "Schweizerland." Grönlandexpedition des Akademischen Alpen Club Zürich. Zürich, Amstutz & Herdeg, 1941. 251 p., illus., maps. *Title tr.*: Across "Schweizerland." Greenland expedition of the Academic Alpine Club of Zurich.

Narrative of a seven-man expedition during July-Sept. 1938, written by its leader, Roch, and the expedition's doctor. Its aims were: climbing and exploration in the mountains (particularly Mt. Forel) of Schweizerland north of Angmagssalik (ca. 66°30' N. 36° W.), exploration of the inland ice beyond Mt. Forel, to establish its highest point, exploration of the geography, glaciology, topography, mineralogy and snow conditions of the area. The expedition was successfully carried out: the top of Mount Forel (3500 m.) was reached on Aug. 2.; two members of the party went on to the ice-cap where they stayed ten days, reaching a height of 3380 m. (Plateau du Pourquoi-Pas? 67°30' N. 35°50' W.) 60 km. north of Mount Forel.

Appendix (p. 249-51) contains notes on geographical, ethnographic and medical observations.

**Copy seen:** Mi-U.

**25603. ROCH, FELIX.** Teredinidae morsk SSSR. (Zoologicheskii zhurnal. 1934. t. 13, no. 3, p. 437-52, illus., text maps) **Title tr.:** Marine Teredinidae of the U.S.S.R.

Contains a critical revision of eight Russian species of ship-worms (Teredinidae), with literature citations for each species arranged chronologically, diagnoses, localities and a review of geographic distribution; includes *Teredo norvegica* and *T. megotara* (72°30' N.) native to Barents Sea. Summary in German.

**Copy seen:** DLC; MH-Z.

**25604. ROCH, FELIX.** Die Terediniden der skandinavischen Museumssammlungen. (Stockholm, Gothenburg, Kopenhagen, Oslo, Nidaros and Tromsø). (Arkiv för zoologi, 1931. Bd. 22A, no. 13, p. 1-29, illus., plates 1-4) **Title tr.:** Ship-worms (Teredinidae) in collections of Scandinavian museums, Stockholm [etc., as above].

Contains a critical revision of 20 species and one variety of Scandinavian ship-worms (marine bivalve molluscs of the gen. *Teredo*) in the collections of the six zoological museums, with descriptions of five new species, critical notes, literature citations, and lists of localities (see text maps), also names of museums where specimens are located; includes *Teredo norvegica* and *T. megotara* n. sp. from Greenland, Svalbard and Tromsø, Norway.

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**25605. ROCHEV, P. A.** Krupnyi rogiatyi skot v ralonakh Pechory. (Sotsialis-

ticheskoe zhivotnovodstvo, May 1951. v. 13, no. 5, p. 57-62, tables) **Title tr.:** Horned cattle of the Pechora districts.

Contains a study on the local breeds of cattle developed during the 16th-20th centuries: their origin, general characteristics and color, milk yield, improvements through better feeding and through cross-breeding, etc.; remarks on cattle in the collectives, feed and pasture, etc.

**Copy seen:** DLC.

**25606. RODAHL, KÅRE, 1917-** Arctic nutrition. (Canadian geographical journal, Feb. 1950. v. 40, p. 52-60, illus.)

General discussion of vitamin deficiency diseases among white trappers in Greenland, sources of vitamins in arctic plants and animals, calorie consumption and diets of trappers and Eskimos, based on the author's observations in 1939-40 while with the Swedish-Norwegian Expedition in Northeast Greenland.

**Copy seen:** DGS; DLC.

**25607. RODAHL, KÅRE, 1917-** Ark-tiske kostproblemer. (Polarboken, 1949, p. 87-90) **Title tr.:** Arctic nutrition problems.

Diseases due to malnutrition are almost unknown among the Eskimos, because they eat certain arctic plants and animal organs which have a high C-vitamin content. The fare consumed by Europeans in the Arctic is usually deficient in both A and C vitamins. The entire crew of a Norwegian ship that passed the winter of 1937 in Greenland suffered from a lack of A vitamins. A more rational diet largely based on the internal organs of certain arctic animals and on dried vegetables of high quality is recommended.

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**25608. RODAHL, KÅRE, 1917-** Basal metabolism of the Eskimo. (Federation proceedings, Mar. 1952. v. 11, no. 1, p. 130)

Contains abstract of report on BMR (Basal metabolic rate) tests on 73 Eskimos from four different localities in Alaska. Environmental observations, body surface measurements, data on food consumption and elimination of urinary nitrogen are included. In accordance with earlier reports, the BMR of Eskimos living in their native habitat was significantly higher than in Whites. When given the white man's diet, the average BMR was reduced to a level identical to a group of Whites living

under the same conditions. It is concluded that there is no racial difference between Eskimos and Whites in the basal heat production and that the specific dynamic action of protein in which their diet is rich is responsible in the higher BMR of the Eskimos. **Copy seen:** DSG.

**25609. RODAHL, KÅRE, 1917-** . Hypervitaminosis A, a study of the effect of excess of vitamin A in experimental animals. Oslo, J. Dybwad, 1950. 4 p. l., [7]-206 p., 1 l., 24 plates, tables, diagrs.

*Contains* an introduction on hypervitaminosis A in man and animals; statement of the problem, plan and methods of the investigation; studies on hypervitaminosis A in rats, mice, guinea pigs, rabbits and cockerels. Conclusions: excess of vitamin A was toxic to all the animals used in the investigation, though there were some differences, largely of degree, depending on the method of administration. The symptomatology is given and showed an "acute intoxication" which followed directly the administration of the first toxic dose and a "chronic intoxication" manifest for several days after continuous administration of the vitamin. Results of examination of the blood and urine; x-ray microscopical and other analyses are also given. The relation of hypervitaminosis A to skin and organ lesions, and to the action of other vitamins is also discussed. Bibliography (76 items).

Reviewed in *Arctic*, May 1951. v. 4, no. 1, p. 62-64.

**Copy seen:** DGS; DLC.

**25610. RODAHL, KÅRE, 1917-** . Hypervitaminosis A and scurvy. (*Nature*, 1949. v. 164, p. 531)

Extending previous investigations, the author studied hypervitaminosis A in rats, mice, guinea pigs, rabbits, dogs and chickens. The symptoms of intoxication, following the ingestion of 50-100 I. U. vitamin A/gm. body-weight are described. Those of the symptoms as well as post-mortem, microscopical and other findings, identical with those observed in human scurvy, are discussed in detail. The effects of Vitamin A excess and those of ascorbic diet were very similar in guinea pigs. These and some additional experiments indicate that prolonged administration of excess vitamin A produces in laboratory animals a condition resembling scurvy. Abnormality in vitamin C metabolism, found in the majority of cases of sick animals, is not considered

as the sole cause in hypervitaminosis A. Bibliography (4 items).

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**25611. RODAHL, KÅRE, 1917-** . Hypervitaminosis A in the dog. (*Federation proceedings*, Mar. 1952. v. 11, no. 1, p. 130)

*Contains* abstract of an account of the author's extension to dogs, of his previous comprehensive studies on hypervitaminosis A in other animals. An average of 387 IU vitamin A/gm body weight was given daily for 57 days. Symptoms following the first single dose as well as continued doses, are described; data are also presented on blood and urine examinations; x-ray examinations of the long bones; postmortem and histological findings, etc. The similarity between hypervitaminosis A symptoms and those of scurvy are discussed.

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**25612. RODAHL, KÅRE, 1917-** . Hypervitaminosis A in the rat. (*Journal of nutrition*, July 1950. v. 41, no. 3, p. 399-421, 3 plates)

*Contains* report on an extension of the author's *Toxic effect of polar bear liver*, 1949 (see *Arctic Bibliography*, No. 14749). Prolonged administration of excess vitamin A in toxic doses was necessary to produce changes characterized as hypervitaminosis A. The toxicity of various doses is discussed. Oral administration produced identical symptoms as subcutaneous injection and no significant effect of age or sex was observed. A detailed account of the symptoms of vitamin A hypervitaminosis is included, together with the results of blood, x-ray, microscopic and other examinations. Bibliography (33 items). **Copy seen:** DLC.

**25613. RODAHL, KÅRE, 1917-** . Nytt land under vingene. Oslo, Gyldendal Norsk Forlag, 1948. 149 p., 34 plates (incl. 1 map), fold. map. *Title tr.*: New land under wings.

Narrative of the first year's (reconnaissance and depot-laying) work of the Danish Peary Land Expedition, 1947-50, on which the author was physician and biochemist. Tells of the organization, personnel, flights from the base on Young Sund to the Independence Fiord region, the broad scientific program in general, mentioning preliminary results especially in archeology, glaciology and zoology, from a 17-day sojourn at Jørgen Brøn-lunds Fjord. Includes chapters on Ebbe

Munck and Eigil Knuth, co-leaders of the expedition (see *Polar record*, Jan.-July 1948, v. 5 (no. 35-36) p. 201-202).

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**25614. RODAHL, KÅRE, 1917- .** "Spekk-finger" or sealer's finger. (Arctic, Dec. 1952. v. 5, no. 4, p. 235-40, illus.)

Contains an account of a severe local infection (cellulitis) common among sealers, especially those handling the blubber (spekk) or skins. Its occurrence and distribution, symptoms, cause (not as yet established, but probably *Erysipelothrix rhusiopathiae*), treatment, including latest experiment with antibiotics are discussed. Description of a case is given, and measures of prevention indicated. Bibliography (11 items).

**Copy seen:** DLC.

**25615. RODAHL, KÅRE, 1917- .** Toxicity of polar bear liver. (Nature, 1949. v. 164, p. 530-31)

Author and Moore established earlier the very high vitamin A content of polar-bear and bearded seal livers and concluded that their toxic effect may be due to this high content. Attempts to fractionate liver into toxic and non-toxic constituents were unsuccessful. In the present study with rats, ingestion of 0.5-0.6 gm. of bear liver daily proved toxic in all cases; in two cases 0.5-0.7 gm. daily were lethal. Liver freed from vitamin A was non-toxic. Bear-liver oil containing all its vitamin A, and purified concentrates of this vitamin were toxic; equivalent amounts of bear-liver oil freed of vitamin A had no bad effects. Symptoms increased with increasing amounts of vitamin A. It is thus confirmed that the toxic substance in polar bear liver is identical with vitamin A. Livers of snow hare and walrus, considered non-poisonous by the Eskimos, contain very small amounts of vitamin A.

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**25616. RODAHL, KÅRE, 1917- .** U. S. Air Force survival ration studies in Alaska. (Arctic, Aug. 1950. v. 3, p. 124-25, illus.)

News note briefly stating program, locality, personnel and duration of the experiment made during Jan.-Feb. 1950.

**Copy seen:** DAI; DLC.

**25617. RODAHL, KÅRE, 1917- , and A. W. DAVIES.** Vitamin A in seals. (Biochemical journal 1949. v. 45, no. 4, p. 408-412, tables)

Contains report on weight, fat content

and vitamin A content of the livers of 64 hooded seals (*Cystophora cristata*), 145 Greenland seals (*Phoca groenlandica*), one Atlantic seal (*Halichoerus grypus*), and 2 common seals (*Phoca vitulina*). During the breeding season (March to late May) a very high concentration of vitamin A was found in mature specimens of the hooded and Greenland seal from northern waters. The vitamin A content of the single Atlantic seal fell within the same range, but those of the two young specimens of common seals were much lower. In mature specimens there was no correlation apparent between liver vitamin A content and age, sex, or thickness of blubber. Some other tissues examined, showed relatively small amounts of vitamin A. The fat content of the livers of all species was high in the very young (8-10 per cent), but low (2-4 per cent) in mature animals. Bibliography (4 items).

**Copy seen:** DLC.

**RODBARD, S.,** see Prec, O., & others. Cardiovascular effects acutely induced hypothermia. 1949. No. 25283.

**25618. RODDIS, LOUIS H.** The influence of scurvy upon maritime history. (Military surgeon, May 1940. v. 86, p. 444-52)

Contains sections on the influence of diseases and epidemics on military campaigns and history; the nature of vitamin C and scurvy; symptoms of scurvy and some of its notable outbreaks since 1500; its early treatment especially in the British navy; Blane's introduction of lemon juice (1795) and subsequent decline of the disease.

**Copy seen:** DLC.

**RODENDORF, BORIS BORISOVICH,** see Shtakel'berg, A. A., & others. Opre-delitei' mukh evropelskoi chasti SSSR. 1933. No. 26156.

**25619. RODEWALD, MARTIN.** Klima und Wetter der Fischereigebiete Islands. Hamburg, 1951. 95 p., 58 figs., tables. (Germany. Meteorologisches Amt für Nordwestdeutschland. Beiträge zum Wettergeschehen in den nordeuropäischen Gewässern, no. 2) **Title tr.:** Climate and weather of the Iceland fishing grounds.

"A comprehensive analysis of many phases of the meteorology of the Iceland area. The first section takes up the general climatic conditions and specific

weather elements such as ocean currents, water temperatures, climatic variations and ice occurrence, fog and precipitation, pressure and wind, temperature of the air in all its aspects, cloudiness and hydrometeors, orographic effects in air flow and winds, large-scale weather processes and cyclone tracks, etc. with consolidated tables showing frequency of wind and weather elements in the area. The second section deals with synoptic weather situations—normal and abnormal, with many illustrative synoptic charts. Supplementary articles by the author deal with (1) ten cases (1898–1949) of shipwreck on the coast of Iceland and the attending synoptic weather situations, and (2) details of weather for the stormy season of 1949 in NW European Seas are given by areas and analyzed statistically in connection with previous winters.”—*Meteorological abstracts and bibliography*, Oct. 1951. v. 2, no. 10, p. 822. **Copy seen:** DWB.

**25620. RODEWALD, MARTIN.** Klima und Wetter des Fischereigebiets Bäreninsel; Beiträge zum Wettergeschehen in den nordeuropäischen Gewässern. Hamburg [Meteorologisches Amt für Nordwestdeutschland] 1949. 69 p., maps, diagrs. **Title tr.:** Climate and weather of the fishing grounds of Bear Island; contribution to weather conditions in north European waters.

First of a series of studies based on observations of captains and others in the fishing fleet, and planned for publication by the Meteorological Office of northwestern Germany. Pt. 1 gives a climatic classification of the region around Bjørnøya, between West Spitsbergen and northern Scandinavia; a résumé of weather elements, their variations and interrelationships, sketch of the more significant pressure fields, their paths and effect on weather; also a table of monthly means of the meteorological elements. Pt. 2 describes individual states of weather and development of weather conditions for the whole area of Greenland and Barents Seas, using actual weather occurrences as illustration.

**Copy seen:** DLC; DWB.

**25621. RODEWALD, MARTIN.** Wetterskizze Nr. 10. Eine zeitweilige Asymmetrie der Zirkulation im Nordatlantik und Nordpazifik. (Annalen der Meteorologie, 1951. Bd. 4, no. 79, p. 406–408, fig.) **Title tr.:** Weather sketch no. 10. A temporary asymmetry of the circula-

tion in the North Atlantic and North Pacific.

“In winter 1949–1950 pressure was very low over N. Atlantic and high over Aleutians, especially Feb. 1–5 (chart) with centers below 955 mb WSW of Iceland and 1040 mb over Aleutians. A cold N. W. current from Aleutian High across Canada intensified cyclonic activity over Atlantic.”—*Meteorological abstracts and bibliography*, Oct. 1952. v. 3, no. 10, p. 1031. **Bibliography** (3 items).

**Copy seen:** DWB.

**25622. RODEWALD, MARTIN.** Die Wirbelstrasse bei Jan Mayen. (Annalen der Meteorologie, 1950. Bd. 3, no. 1–2, p. 25–26) **Title tr.:** The eddy track at Jan Mayen.

Review of H. Wehner's *Untersuchung mikrobarischer Wellen auf Jan Mayen*, q. v. “Describes whirls with vertical axes forming in lee of mountains with north winds and drifting south.”—*Meteorological abstracts and bibliography*, June 1950. v. 1, no. 6, p. 357. **Copy seen:** DWB.

**25623. RODEWALD, MARTIN.** Zirkulationstürmen in der Arktis. (Polarforschung, 1951. Bd. 3, Jahrg. 21, p. 75–79) **Title tr.:** Circulation patterns in the Arctic.

The author has chosen for discussion certain special results of recent arctic aerological observations as shown in daily and monthly weather reports from Kisingen: (1) the position of the cold air center, (2) the “normal position” of arctic high low, (3) temperature of the polar calotte and atmospheric circulation in the temperate zone, (4) the polar high, its position and variations, and (5) the multiplicity of arctic weather conditions.

“The new Arctic stations have shown that the pressure systems are more complex than was formerly thought. The deep cold air center is most often over Baffin Land, very rarely over Greenland. The normal position of the low at 5 km is also Baffin Land. Relation of temperature variations in polar cap to circulation in mid latitudes discussed, also position and variations of polar high and the types of synoptic development found.”—*Meteorological abstracts and bibliography*, May 1952. v. 3, no. 5. **Bibliography** (10 items).

**Copy seen:** CaMAI; DGS.

**25624. RODEWALD, MARTIN.** Zur Frage der Luftdruckverhältnisse in der Arktis. (Annalen der Meteorologie, 1950.

Bd. 3, no. 9-10, p. 284-90, 5 figs., table)  
**Title tr.:** On the question of pressure conditions in the Arctic.

"A comparative study of pressure north of 70° N. and its annual variation, as shown in the U. S. Normal Weather Maps (1946), Baur's unpublished charts and the distribution in 1949-50. The U. S. maps show an excess up to 5 mb. over Baur; it is considered that Baur is correct and the U. S. maps greatly exaggerate the polar anticyclone. The U. S. values exceed Sverdrup's (1935) in all months."—*Meteorological abstracts and bibliography*, May 1951. v. 2, no. 5, p. 353-54. Summary in German and English, p. 284.

**Copy seen:** DWB; MH-BH.

**25625. RODZEVICH, N. N.** Sovetskie samolety v Arktike. Pod red. V. A. Popova. Moskva, Glav. red. aviatsionnoi lit-ry, 1935. 102 p., illus., ports., map.  
**Title tr.:** Soviet airplanes in the Arctic. Under editorship of V. A. Popov.

Contains a popular account of Soviet arctic flights and air expeditions during the period 1924-30. Following a description of the Arctic, its problems and recent exploration, the first Russian arctic air expedition (to Novaya-Zemlya, 1924) and the second flight to this land (1925), both headed by B. G. Chukhnovskii, are described. Accounts are given of the Transarctic Expedition (Vladivostok - Arctic Ocean - Leningrad in 1928, pilot: G. D. Krasinskii) and the wreck of its plane *Sovetskii Sever*; air expeditions to Wrangel Island and the arctic coast (1927-29) and search flights of 1929-30. Descriptions of the areas visited, their climate, population and history of exploration are included.

**Copy seen:** DLC.

**25626. RÖNNOW, CARLO.** Om kastrening hos de renskötande folken med särskild hänsyn till rennomadismen i Sverige. (Folk-Liv, 1948-49, v. 12-13, p. 141-60) **Title tr.:** On castration of reindeer as practiced by reindeer-breeding nomads with especial regard to the reindeer nomadism in Sweden.

Contains description of three different methods of castration and its results. Summary in English. **Copy seen:** InU.

**ROGERS, DANIEL von H.,** see O'Bryan, D. Archeological investigations Mill Island, 1951. 1952. No. 24784.

**25627. ROGERS, HARVEY G.** Report on investigation of sanitary features of

utilidor construction and substitutes therefor in Arctic installations, for the Subcommittee on Waste Disposal. (National Research Council. Committee on Sanitary Engineering and Environment. Bulletin, 1949, p. 111-15)

Contains description of various types of utilidor, an insulated, heatable conduit, which provides extra protection for utility distribution systems, required by the extreme polar weather.

"The basic type of utilidor for use in arctic regions is the tunnel type. The tendency has been to put as many as possible of the utilities together. The advantages of the basic utilidor are ease of inspection and repair, of communication between buildings, and of installation and operation of heating systems. The disadvantages of this heavy unit construction include high initial costs, the hazards of total failure of the utilities, and possible foundation failure due to changes in the soil. Attempts to modify the design by reduction in size and weight have increased the sanitary hazards. Separate water supply systems are operating in Canadian and Siberian communities by circulating preheated water through pipe lines. Separate water-carriage sewer systems have not been used extensively in the Arctic. The experience with the Fairbanks sewer system has led to recommendations for designs minimizing sanitary hazards, for separate water and sewer installations, and for adequate designs for the various related appurtenances."—SIPRE.

**Copy seen:** DSC.

**25628. ROGERS, HARVEY G.** Report on investigation of the design of sewage pumping stations for low temperature areas, for the Subcommittee on Waste Disposal. (National Research Council. Committee on Sanitary Engineering and Environment. Bulletin, 1950. p. 317-22, illus.)

Contains sections on the present conventional types of sewage pumping stations in Canada and Alaska and their inadequacy for arctic conditions. Types of lift stations now in use in continental United States are described and of the merits of various types discussed, noting problems associated with the use of these types in northern U. S. and in arctic areas. Recommendations include adaptations of conventional types for permafrost conditions; of single-chamber types using storage units inside the structure

and of types which do not require removal of screening in the pump station.

**Copy seen:** CaMAI; DSG.

**ROGERS, HARVEY G.,** *see also* Whitaker, H. A., & others. Disposal of garbage permafrost areas. 1949. No. 27355.

**ROGERS, NEIL,** *see* Davis, L., & others. High altitude frostbite. 1943. No. 21370.

**25629. ROGERS, W. FREDRIK.** Synopsis of species of *Chrysomela* and allied genera inhabiting the United States. (Academy of Natural Sciences of Philadelphia. Proceedings, 1856. v. 8, p. 29-36, plate I) **Copy seen:** MH-Z.

**ROGERS, W. FREDRIK,** *see also* Suffrian, C. W. L. E. Uebersicht d. Chrysomelen. 1858. No. 26518.

**25630. ROIVAINEN, H.** Tietoja kasvillisuudesta sekä putkilo-ja lehtisammalkasvistosta keskisen Luttojoen seuduilla. (Suomalainen eläin-ja kasvitieteellinen seura vanamo. Julkaisuja, 1923. 1:8, p. 229-304, illus.) **Title tr.:** Study of the vegetation vascular plants and leaf-mosses in the Lutto River area.

*Contains* outline of previous work in the area studied (between 28°30' and 30°15' E. long. and mainly north of 68°30' N. lat.) and its geography; data on the natural vegetation: various types of forests, trees by small streams, vegetation along the Lutto River, tributaries, plant growth of river banks, swamps, rocks, and fresh waters; miscellaneous notes on vegetation of fields and mountain areas; and that dependent on cultivation; a floristic section lists with localities 236 vascular plants and 104 true mosses of this region. Summary in German. **Copy seen:** DLC.

**ROKHLIN, D. G.,** *see* Ar'ev, T. Ī., & others. Otmorozheniia. 1951. No. 20301.

**25631. ROLIFF, W. A.** Developments in eastern Canada in 1950. (American Association of Petroleum Geologists. Bulletin, June 1951. v. 35, p. 1380-1387, 5 maps)

This brief summary includes a note on one exploratory hole drilled at Piskoshi Point on the west coast of James Bay, for stratigraphic information.

**Copy seen:** DGS.

**25632. ROMAN, ABRAHAM, 1872-1943.** Artiska ichneumonider i Skandi-

navien. (Entomologisk tidskrift, 1913. Årg. 34, häft. 2-4, p. 105-111) **Title tr.:** Arctic ichneumon flies of Scandinavia.

*Contains* a general sketch of this fauna, a list of 86 arctic Scandinavian species listed by Zetterstedt, and another list of 58 arctic species distributed in northern Siberia (Lena and Yenisey River regions), Novaya Zemlya, Spitsbergen, Greenland and Alaska. **Copy seen:** DA; MH-A.

**25633. ROMAN, ABRAHAM, 1872-1943.** Ichneumonologische Notizen II. (Entomologisk tidskrift, 1929. Årg. 50, häft. 3-4, p. 274-77) **Title tr.:** Ichneumonological notes II.

*Contains* a Latin diagnosis, of *Campoplex montanus* n. sp., an ichneumon fly, found by F. Nordström near Abisko in Swedish Lapland, with some additional notes in German; pt. I. (1923) does not contain arctic material.

**Copy seen:** DA; OU.

**25634. ROMAN, ABRAHAM, 1872-1943.** Några svenskt Ichneumonidfynd. (Entomologisk tidskrift, 1904. Årg. 25, häft 2-3, p. 115-20) **Title tr.:** Some finds of Swedish ichneumon flies.

*Contains* a systematic list of 20 Swedish ichneumon flies (Ichneumonidae) collected in the vicinity of Uppsala, including three species previously known only from Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25635. ROMAN, ABRAHAM, 1872-1943.** Neubeschreibungen und Synonyme zur nördlichen Ichneumonidenfauna Schwedens. (Entomologisk tidskrift, 1913. Årg. 34, häft. 2-4, p. 112-32) **Title tr.:** Description of new species and synonyms of the fauna of ichneumon flies of northern Sweden.

*Contains* Latin diagnoses of 7 new species and one new variety of Swedish ichneumon flies, and critical notes on 16 other species; includes 16 species native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**25636. ROMAN, ABRAHAM, 1872-1943.** Nordische Ichneumoniden und einige andere. (Entomologisk tidskrift, 1939. Årg. 60, häft. 3-4, p. 176-205) **Title tr.:** Northern Ichneumonidae and some other species.

*Contains* critical notes on about 60 ichneumon flies, mostly from northern Sweden, and Latin diagnoses of 7 new species, including *Atractodes robustus*,

*Cecidonomus boreophilus* and *Lagarotus nivalis* n. spp., native to Swedish Lapland, and some otherwise interesting species from the same region.

**Copy seen:** DA; MH-Z.

**25637. ROMAN, ABRAHAM, 1872-1943.** Notizen zur Schlupfwespenammlung des schwedischen Reichmuseums. (Entomologisk tidskrift, 1910. Årg. 31, häft. 2-3, p. 109-196, illus.) **Title tr.:** Notes on the collection of ichneumon flies in the Swedish State Museum.

**Contains** a critical study of this collection, with Latin diagnoses of ten new genera and ten new species, and descriptions of over 200 species, with critical notes and data on distribution; the regions best represented in this collection are Africa and Europe but includes a few species from northern Scandinavia and western Siberia (lower Yenisey River).

**Copy seen:** DA; MH-Z.

**25638. ROMAN, ABRAHAM, 1872-1943.** Om Lapplands alpina Ichneumonidfauna. (Entomologisk tidskrift, 1905. Årg. 26, häft. 4, p. 177-88) **Title tr.:** On alpine ichneumon fauna of Sweden.

**Contains** a general sketch of the ichneumon alpine fauna of Swedish Lapland with references to many species of these flies.

**Copy seen:** DA; MH-Z.

**25639. ROMAN, ABRAHAM, 1872-1943.** Sibirische Ichneumonien im schwedischen Reichmuseum. (Entomologisk tidskrift, 1904. Årg. 25, häft. 2-3, p. 138-50, illus.) **Title tr.:** Siberian ichneumon flies in Swedish State Museum.

**Contains** a systematic list of 12 forms of ichneumon flies in the Swedish State Museum at Stockholm, collected in 1876-77 by F. Frybom during the Swedish Yenisey Expedition; includes Latin diagnoses of *Ichneumon sibiricus* (Dudinka, 69°25' N.), *I. fuscipictus* (lower Yenisey) and *I. caesareus* ("Siberia") n. spp., and two new varieties from Karasino on the Yenisey (67° N.).

**Copy seen:** DA; MH-Z.

**ROMAN, PER ABRAHAM, see ROMAN, ABRAHAM, 1872-1943.**

**ROMANOVA, N. P., see Spasskii, A. A., & others.** Novye dannye *Ondatra zibethica*. 1951. No. 26372.

**25640. ROMANOVSKIĬ, GENNADIĬ DANILOVICH, d. 1906.** O rodě *Stenopora* Lonsdale i opisanie novogo vida

*Stenopora lahuseni*. (Vserossiiskoe mineralogicheskoe obschestvo, Leningrad. Zapiski, 1891. Ser. 2, chast' 28, p. 169-92, plate 6) **Title tr.:** On the genus *Stenopora* Lonsdale, with a description of *S. lahuseni* n. sp.

**Contains** historical notes on the study of coelenterate genus *Stenopora*, discussion of the genus and description of a new fossil coral, *L. lahuseni* n. sp. found by Prof. A. A. Shtukenberg in the limestone formations of Timan Ridge, Indiga River basin, Arkhangel'sk province.

**Copy seen:** MH-Z.

**25641. ROMANOVSKY, VSEVOLOD, 1912-** . À travers toundra et glaciers. Paris, Éditions J. Susse [1945]. 209 p. illus., plates, maps (incl. fold.) **Title tr.:** Across the tundra and glaciers.

**Contains** an account for general readers of a trip the author made in the summer of 1939 to study polygonal soils on West Spitsbergen. He relates here the traveler's (not the scientist's) experiences: from Paris to Norway by airplane, visiting Trondheim, Bodø, Hammerfest and other harbors; the trip by boat from Tromsø to Spitsbergen; description of Barentsburg and Longyearbyen; a reindeer hunt, fox-trapping, fishing and sealing trips, with remarks on the natural characteristics of the country, glaciers, fiords, and on the animals and birds he met with, and on the work of earlier explorers and scientists in various localities of the island. The work is profusely illustrated with drawings and two maps by L. Logé, and with the author's photographs. For the author's scientific papers from this trip, see *Arctic Bibliography*, No. 14792-14796.

**Copy seen:** DLC.

**25642. ROMANOVSKY, VSEVOLOD, 1912-** . Arctique et Antarctique. Paris Éditions Elzévir [1947]. 62 p., illus., port., maps. (Problèmes, 13) **Title tr.:** Arctic and Antarctic.

**Contains** (p. 1-45) brief descriptive notes on the exploration, surface features, climate, ice, seas, fauna, flora, native peoples, and white man in arctic regions; section on the Antarctic follows and bibliography (14 items).

**Copy seen:** DLC.

**25643. ROMANTSEV, E.** Ot Kandalakshi do Luvengi. (Vokrug sveta, Jan. 1952. no. 1, p. 41-45, illus.) **Title tr.:** From Kandalaksha to Luvenga.

**Contains** an account of a motor-boat trip from Kandalaksha (67°09' N. 32°26'

E.) along the Kola Peninsula coast to a nearby fishing village Luvenga. Includes descriptions of Kandalaksha, its timber and paper mills; fisheries, hydroelectric stations, etc.; the country along the route; its natural characteristics and animal life (wild geese, fishes, etc.) and the fishing village, its life and people.

**Copy seen:** DLC.

**25644. ROSBERG, J. E.** Anteckningar om lapparna i Finland. Helsingfors, 1912. 127, 5 p., plates, illus. (Geografiska föreningen i Finland. Meddelanden, 1910-1912. v. 9, no. 5) **Title tr.:** Notes on the Lapps of Finland.

*Contains* observations made during six summers spent in the area, supplemented with data from the literature. Includes anthropology of the Lapps (tribes, occupations, language, physical characteristics); account of the Reindeer Lapps, their origin, distribution, way of life, social conditions, etc.; the River Lapps, their habitats, origin, life, housing, etc.; the Sea Lapps, their distribution, origin, relations with other Lapps, language and national consciousness, social conditions, occupation, housing conditions, etc. Bibliographical footnotes. Summary in German.

**Copy seen:** DLC.

**25645. ROSBERG, J. E.** Begleitworte zu einer neuen Karte von Finland. Helsingfors, 1907. 2 p., fold map. (Geografiska föreningen i Finland. Meddelanden, 1904-1906. Bd. 7, no. 5) **Title tr.:** Notes to a new map of Finland.

*Contains* an historical sketch of previous mapping of Finland and an explanation of the base for the map by the author and H. H. Hagman reproduced here (1:2 million).

**Copy seen:** DLC.

**25646. ROSBERG, J. E., and J. A. PALMÉN.** Finland och Adolf Nordenskiölds minne. Helsingfors, 1902-1903. 16 p. (Fennia, v. 19, no. 4) **Title tr.:** Finland and Adolph Nordenskiöld's memory.

*Contains* biographical sketch of N.E.A. Nordenskiöld, 1832-1901, his activities as geologist, explorer, and book collector of geographical literature; the acquisition of his collection by the Finnish government and transfer of part to the University of Helsinki.

**Copy seen:** DLC.

**25647. ROSBERG, J. E.** Luonnoksia maantieteellisiin problemeihin, II. Pysyvistä routamaasta. (Terra, 1912. 24, p. 139-46) **Title tr.:** Natural geograph-

ical problems, II. Permanently frozen ground.

Author summarizes several previous studies on permafrost abroad and on permafrost in swamps in Finland; also extends his own remarks (published in his *Lappi* 1911) on permafrost and "palsa" (frozen peat mounds). He suggests further study on the forming of "palsa," and on the effect of erosion, vegetation and soil type on permafrost; also suggests mapping of permafrost areas to determine their changes in limits and depth. Author notes that ground occasionally, but not usually remains frozen through the summer in southern Lapland.

**Copy seen:** DLC.

**25648. ROSBERG, J. E.** Några sjöbäcken med deltabildningar i finska Lappmarken. (Geografiska föreningen i Finland. Meddelanden, 1892-1893. Bd. 1, p. 1-18, 2 fold. maps) **Title tr.:** Some lake basins with delta formations in Finnish Lapland.

*Contains* a report on studies in the Sodankylä district made during a summer (1890?) trip with R. Hult (reported with map of area in Rosberg's *Nordöstra Sodankylä* 1891, q. v.) Lakes Luirojärvi, 68°15' N. 28° E. and Kopsusjärvi, 68°15' N. 27°30' E. are described from the topographic, orographic and hydrographic point of view, and the composition of their bottom given. The delta of the Kopsusjoki, as well as those of some smaller rivers (Päikemäjoki, Hillalampi, etc.) are described, and their genesis indicated. *Maps* (1:10,000) of the two lake basins are on plates 1-2 at end. Summary in German.

**Copy seen:** DLC.

**25649. ROSBERG, J. E.** Napaseututkimus Lapinmeren rannoilla, Lähinnä Frans Josefin Maasa ja Novaja Zemljassa. (Terra, 1925. 37:2, p. 57-74, illus., map) **Title tr.:** A study of the arctic area on the shores of the Lapp Sea near Franz Josef Land and Novaya Zemlya.

*Contains* proposal for a 12-man Finnish expedition to undertake needed glaciological and other investigations in Novaya Zemlya, Franz Josef Land, and the Barents Sea, if the Russians do not get this work under way. Author reviews achievements of previous expeditions on these islands and in Barents Sea and gives geographic and hydrographic sketch of the region.

**Copy seen:** DLC.

**25650. ROSBERG, J. E.** Nordöstra Sodankylä. (Terra, 1891. v. 3, no. 1-2, p. 1-51, incl. illus., fold. map) *Title tr.*: Northeastern Sodankylä.

A geologist's account of an expedition made in the summer of 1890 to a then little known region of Lapland northeast of Mutenia and Riesto (approximately 68°20' N. 28° E.). A map of the region covering 2400 km<sup>2</sup> was made. Of especial interest to the author were the Raututunturi Mts. and the Saariselkä Mts. near the then Russian border, with their numerous large granite blocks. Orographical, hydrographical and geological information is presented. The animal and plant life of the region was studied by R. Hult. A chapter is devoted to the Lapp population of the region.

*Copy seen:* DLC.

**25651. ROSBERG, J. E.** Resetiden i Finland under olika skeden. Helsinki, 1929. 14 p., maps. (Fennia, v. 51, no. 1) *Title tr.*: Travel time in Finland during various periods.

Contains an account of roads, travel, means of travel, and travel time in Finland including the North, from the Middle Ages to the present. First map with isochrones of travel appeared in 1808, the second in 1908. Further isochronous travel maps are described including the latest one, covering air travel. Summary in German.

*Copy seen:* DLC.

**25652. ROSBERG, J. E.** Studien über Talbildungen im finnischen Lappland und dessen Umgebungen, I. Das Tal des Tulomjok. Helsinki, 1907-1908. 38 p., 3 plates, 2 fold. maps. (Fennia, 24:4) *Title tr.*: Studies on valley formations in Finnish Lapland and its vicinity, I. The valley of Tuloma River.

A description of the River Tuloma (left tributary of the Kola at about 69° N. 32° E.) and its valley; the river's water capacity and hydrology; geology of the valley present and past (especially glacial geology) and tributaries.

*Copy seen:* DLC.

**25653. ROSBERG, J. E.** Tankar om huru många invånare Finland kunde nära. (Terra, 1928. 40, p. 102-124) *Title tr.*: How many inhabitants can Finland support?

"Finland has already a denser population [3,500,000] than any other country in the same latitude except the Swedish province of Värmland and some parts of

Norway, denser even than the other countries in the same isothermal zone." With an estimate of 10 million population in 200-300 years, author outlines means of its support by further utilization of natural (including northern) resources: rational drainage of bog lands, river engineering, improved forestry and fishery, etc. Summary in English.

*Copy seen:* DLC.

**25654. ROSCOE, JOHN H.** Antarctic bibliography. Published by direction of the Chief of the Bureau of Aeronautics. Dept. of the Navy. Prepared by the U. S. Naval Photographic Interpretation Center. NAVAER 10-35-591. Feb. 1, 1951. Washington, D. C., U. S. Govt. Print. Off., 1951. 147 p., maps.

"The bibliography contains approximately 5500 individual references, and is divided into five major groups to cover the biological, geophysical, and geographical sciences, as well as geographical exploration, and photography. The individual references are arranged by subject and subarranged by date of publication. An author index is provided."—SIPRE. Several sections of the major groups include material useful for arctic as well as antarctic studies: human ecology, ice, explorers, sovereignty, whaling, polar organizations, photography, etc.

*Copy seen:* CaMAI.

**25655. ROSE, DONALD CHARLES, 1901-** . The sudden increase in cosmic ray intensity, November 19, 1949. (Canadian journal of physics, May 1951. v. 29, no. 3, p. 227-35, 4 fig., table)

"The cosmic ray counter telescopes set up at Ottawa and Resolute [Cornwallis Island] Canada are described. The sudden increase in intensity of cosmic rays at Ottawa reached a maximum of 70 per cent above normal in a few minutes and decayed slowly to normal in about four hours. At Resolute the increase was gradual and attained only an increase of 20 per cent above normal; the return took about three hours. It is concluded that the cosmic rays causing the main increase in intensity strike the earth in a narrow cone, which in the Northern Hemisphere crosses North America but does not strike Europe. The smaller effect at Resolute may be explained as the result of a weaker cone or a penumbra effect."—*Meteorological abstracts and bibliography*, Aug. 1952. v. 3, no. 8, p. 812-13. Bibliography (11 items). *Copy seen:* DLC; DWB.

**ROSE, E. R.**, see Caley, J. F., & others. E. Canada (Possible future petroleum provinces). 1951. No. 21085.

**25656. ROSENFELD, LEON**, and others. Circulation of the blood and lymph in frostbite and influence of therapeutic cold and warmth; an experimental study. (Archives of surgery, Nov. 1949. v. 59, p. 1045-1055, 3 charts) Other authors: L. J. Langohr, C. R. Owen, and O. Cope.

Contains a study on dogs, with a foot submitted to various degrees of severe frostbite; the blood and lymph flow during freezing and thawing were followed and compared with each other and protein concentration correlated with the pathological changes. Effects of cold (10° C.) and warmth (40° C.), used as therapy against abnormal blood and lymph flow and edema, were also studied; blood flow remained the same in treated and untreated animals but lymph-flow and protein concentration increased more promptly than in untreated controls and much more so than in cold treated feet.

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**25657. ROSENHAIN, FELIX R.**, and others. Blood gas studies in the hypothermic dog. (American journal of physiology, July 1951. v. 166, p. 55-61) Other authors: K. E. Penrod, and J. Flynn.

Contains a report on observations of dogs cooled to a rectal temperature of 20° C. Both respiration and circulation of the hypothermic animals, though reduced in absolute value, were found to be adequate to the metabolic demands, until near the final collapse. Bibliography (16 items).

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**25658. ROSENHAIN, FELIX R.**, and **K. E. PENROD**. Effect of immersion hypothermia on cardiac output. (Federation proceedings, Mar. 1949. v. 8, p. 134)

Contains a brief account of observations on normal and hypothermic dogs with rectal temperatures of 35°, 30°, 25° and 20° C. Data on cardiac output are correlated with pulse-rate, O<sub>2</sub> consumption and shivering.

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**ROSENHAIN, FELIX R.**, see also Penrod, K. E., & F. R. Rosenhain. Blood gas content dogs during hypothermia. 1949. No. 25028.

**25659. ROSENKRANTZ, ALFRED**. Krogbaerende cephalopoder fra Ostgrønlands Perm. (Dansk geologisk forening.

Meddelelser, 1946. Bd. 11, p. 160-161, illus.) Title tr.: Hook-bearing cephalopod from East Greenland.

Contains the description of *Permotentis groenlandica* n. g. n. sp. from Posidonomya shales (Permian) of East Greenland.

Copy seen: DGS.

**ROSENKRANTZ, ALFRED**, see also Noe-Nygaard, A., & A. Rosenkrantz. Landets opbygning og udformning (Grønlands bogen). 1950. No. 24682.

**ROSENMAN, R.**, see Prec, O., & others. Cardiovascular effects acutely induced hypothermia. 1949. No. 25283.

**25660. ROSING, OTTO**. Kleinschmidt centennial II: Samuel Petrus Kleinschmidt. (International journal of American linguistics, 1951. v. 17, no. 2, p. 63-65)

Contains biographical sketch of Petrus Kleinschmidt (1814-1886), a Herrnhut missionary for 46 years in Greenland. His Greenlandic grammar (1851) and dictionary (1871), his translations into Greenlandic, also his scientific and social interests in Greenland are noted.

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**25661. ROSS, H. N.** Pre-war experiences of food storage in Spitsbergen. (Polar record, July 1952. v. 6, no. 44, p. 512-13, tables)

Contains information based on 30 years' experience of a mining engineer at Longyearbyen in storage of meat and fish (in mines, tunnels and cold storage) of vegetables, fruit and tinned food (at 2° to 4° C., flour, cereals, etc.). The data are summarized in a table.

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**25662. ROSS, J. E. R.** Northern activities of the Geodetic Survey 1950-1. (Arctic circular, Jan. 1952. v. 5, no. 1, p. 5-8)

Contains accounts by the Dominion Geodest of previous work of the Survey in the North and note of previous reports in Arctic circular. Report on 1950-51 activities in the Yukon and Northwest Territories describes three types of geodetic work: shoran trilateration, precise astronomical surveys and precise levelling.

"The shoran trilateration consisted of the projection, with the cooperation of the R. C. A. F., of an arc of triangulation from central Canada north and north-westerly as far as the arctic coast. This new system of survey permits the extension of ground control for mapping and

charting into remote areas in a much shorter time than would be required by the use of the conventional type of triangulation. While not yet attaining the degree of accuracy of the first-order triangulation, shoran is able to place the relative positions of isolated points more accurately than by astronomic means. . . . Fortunately, neither wind, darkness, rain, nor clouds interfere seriously with this type of distance-measurement operation." Field personnel and localities for each type of work is given and continuance indicated. G. F. Hattersley-Smyth's obtaining astronomical fixations at four points in Beaufort Sea on the 1951 expedition of D. R. B. vessel *Cancolim II* is noted.

**Copy seen:** DLC.

**25663. ROSS, J. E. R.** Shoran operations in Canada. (Surveying and mapping, Oct.-Dec. 1952. v. 12, no. 4, p. 363-70, tables, map)

*Contains* an account by the Dominion Geodesist, of surveying and mapping operations with shoran from their beginning in 1947. During 1949-51 the shoran net was advanced from 49° N. lat. northward throughout Manitoba and Saskatchewan, down the Mackenzie basin to the arctic coast at 70° N. lat. In this net 40 shoran stations were established; also 13 stations were prepared in a 1200 mile belt extending from Great Bear Lake eastward to Hudson Strait. Triangulation control (limited) in the northern areas is indicated. The basic operations of a shoran-geodetic survey are described and the shoran project to complete in three more seasons, a huge arc, of about 5500 miles axial length, with connections to five geodetic bases from existing first-order triangulation. Method of line crossing and length measurement is described with results for the line Fort Simpson-Peace. Field analysis accuracy obtained, limitation of present equipment, and application to mapping, are discussed.

**Copy seen:** DLC.

**25664. ROSS, P. H.** Haymaking at Kenai experiment station. College, 1907. 13 p. plate (Alaska. Agricultural Experiment Stations. Bulletin no. 3)

*Contains* report and recommendations based on experiments conducted during 1905 and 1906. Includes a general outline of weather conditions during hay making; accounts of implements and curing qualities of native oat hay; the experiments of 1905-1906; conclusions and summary.

**Copy seen:** DA.

**ROSSI, VEIKKO**, editor, see Finland. Ilmatieteellinen keskuslaitos. Aerolog. havainnot 1944-47. 1951. No. 21795.

**25665. ROSSIŠKII, D. N.** Morskafā kapusta-laminariā i ee znachenie dlā medīfsiny i narodnogo khozāistva SSSR. (Priroda, 1950, no. 3, p. 39-42) **Title tr.:** Sea-cabbage, *Laminaria*, and its importance for the medicine and economy of the U.S.S.R.

*Contains* data on this marine alga native to all the northern seas including Barents Sea, White Sea, coastal waters of Siberia and Far Eastern seas; its uses in medicine and the food industry; bibliography (30 items).

**Copy seen:** DLC; MH.

**25666. ROSSMANN, FRITZ.** Über den Föhn auf Spitzbergen und Grönland. (Zeitschrift für Meteorologie, Sept. 1950. Bd. 4, no. 9, p. 257-62. Also pub.: Polarforschung, 1950, pub. 1951. Bd. 2, Jahrg. 20, p. 347-53) **Title tr.:** On the foehn of Spitzbergen and Greenland.

*Introductory* remarks on the author's theory of foehn winds, and an analysis of the behavior and nature of the winds which blow from nearby mountains down the valleys and fiords of West Spitzbergen and West Greenland. "Föhn is attributed to an air current descending from a föhn-wall cloud cooled by evaporation of scattered droplets. The so-called föhn of Spitzbergen, shown by kite ascents to be only a few hundred meters deep, warms adiabatically and is not a true föhn. It is a local wind blowing off north slopes in Sept.-May; sea breezes prevail on S. slopes in summer. In Greenland, valley föhn often occurs on the steep slopes of the inland ice, with moist adiabatic warming due to drift snow blown off the inland ice."—*Meteorological abstracts and bibliography*, June 1951. v. 2, no. 6, p. 437. Bibliography (12 items).

**Copy seen:** DLC.

**25667. ROSZKOWSKI, WACŁAW.** Contributions to the study of the family Lymnaeidae, I. On the systematic position and the geographical distribution of the genus *Myzas* J. Sowerby. (Warszawa. Państwowe Muzeum zoologiczne. Prace, 1929. t. 8, zes. 2, p. 64-97, plates 7-11)

*Contains* a detailed morphological survey of the fresh-water molluscan genus *Myzas*, a discussion of its systematic position and a study of its geographic distribution which includes Finnish Lap-

land and the Kola Peninsula; bibliography (76 items). Summary in Polish.

**Copy seen:** DLC; MH-Z.

**25668. ROSZKOWSKI, WACŁAW.** The distribution of Lymnaeids in Europe and in North America, with relation to Wegener's theory. (Warszawa. Państwowe muzeum zoologiczne. Prace, 1928. t. 7, zes. 2-3, p. 85-94, plates 6-11)

*Contains data on geographic distribution of freshwater snails (Lymnaeidae), including some species occurring in Greenland, northern Scandinavia and Kola Peninsula (Europe) and in Alaska, Yukon Territory and Labrador (North America). Summary in Polish.*

**Copy seen:** DLC; MH-Z.

**25669. ROTH, GRACE M., and others.** The relative roles of the extremities in the dissipation of heat from the human body under various environmental temperatures and relative humidities. (American journal of physiology, Mar. 1940. v. 128, p. 782-90, 3 fig.) *Other authors:* B. T. Horton and C. Sheard.

*Contains a study on two normal subjects (in the basal metabolic state, lightly clothed and at rest in still air) exposed to fixed environmental temperatures of 23°-28°C. and a wide range of relative humidity (35-75 percent). Relative humidity was found to have little effect on the skin temperature of the body; heat dissipation from the body was similarly little influenced by humidity and was chiefly dependent on the environmental temperature. Bibliography (15 items).*

**Copy seen:** DLC.

**25670. ROTH, GRACE M., and M. A. GABRIELSON.** Variation in the concentration of acids of the gastric content in normal subjects before and following immersion of hand and entire body in water at various temperatures. (American journal of physiology, Nov. 1940. v. 131, p. 195-99)

*Contains report on a study which demonstrated that when the hand of the subjects was immersed in water of 10° C. there was only a slight increase in gastric acidity during, and fifteen minutes after immersion; immersion up to the neck in water, ranging from 18.3° to 29.4°C. caused a marked rise in gastric acidity, especially 15 minutes after the bath; similar experiments at 32° to 42.2° C. caused a slight rise of acidity in three subjects and a marked fall in the other two. Additional experiments suggest that*

*the rise in gastric acidity is due to release of histamine or a histamine-like substance. Bibliography (4 items).*

**Copy seen:** DLC.

**25671. ROTH, JAMES L. A., and J. A. FRANTZ.** Metabolic balances in the cold environment, 1. Nitrogen and water exchanges. (Federation proceedings, Mar. 1948. v. 7, p. 105)

*Contains an abstract of studies on the influence of a U. S. A. F. emergency ration and restricted water intake on the nitrogen, water and energy exchanges of subjects living for nine days in an environment of -32° C. The relation and requirements of water intake to the diet and during fasting are also studied.*

**Copy seen:** DLC.

**ROTH, JAMES L. A., see also Frantz, J. A., & J. L. A. Roth.** Metabolic balances cold environment: 2, energy exchanges. 1948. No. 21902.

**ROTH, LAURENCE W., see Hertzman, A. B., & L. W. Roth.** Reactions of digital artery to local cold. 1942. No. 22598.

**ROTH, LAURENCE W., see also Hertzman, A. B., & L. W. Roth.** Vasomotor components in reactions finger to cold. 1942. No. 22599.

**25672. ROTHÉ, J. P.** Bibliographie des travaux français relatifs à l'Année Polaire, 1932-1933. (Strasbourg. Université. Institut de Physique du Globe. Annales, 1950. n. s. pt. 3: Géophysique, v. 6, p. 71-76) *Title tr.:* Bibliography of French works relating to the Polar Year, 1932-1933.

*"The contents of the official publications on the Polar Year (in three volumes) are listed by author and title, and 74 separate articles cited in three groups: (1) articles by members of the French expeditions to Scoresby Sound and Tamarassat; (2) other French publications relating to the Polar Year; (3) popular articles and works; (4) documents and manuscripts not published, and (5) films. Many subjects are covered."—Meteorological abstracts and bibliography, Sept. 1952. v. 3, no. 9, p. 901.*

**Copy seen:** DWB.

**25673. ROUCEK, JOSEPH S.** The geopolitics of Greenland. (Journal of Geography, Sept. 1951. v. 50, p. 239-46, map)

*Review (in general terms) of the geography, climate, history; occupation*

armed forces by U. S. and construction of air fields during World War II; and subsequent political repercussions in Denmark. Bibliography (5 items).

**Copy seen:** DLC.

**25674. ROUCEK, JOSEPH S.** The geologies of the Aleutians. (Journal of geography, Jan. 1951. v. 50, p. 24-29, sketch map)

*Contains* brief preamble on the strategic value of the Aleutians and on Japanese penetration and research in the region during 1922-41; followed by sketches of the geography, weather, history, and military strategic aspects of the island chain.

**Copy seen:** DGS.

**25675. ROUNSEFELL, GEORGE ARMYTAGE, 1905-** . Contribution to the biology of the Pacific herring *Clupea pallasii*, and the condition of the fishery in Alaska. (U. S. Bureau of Fisheries. Bulletin, 1929, pub. 1930. v. 45, p. 227-320, illus., incl. 9 charts, diags., 9 plates)

*Contains* introductory notes on seine and gill-net fisheries and history of the industry throughout southern and southeastern Alaska. Then follows as results of investigations in 1926 in waters from Prince William Sound to Kodiak Island, a study of this herring: its systematic relationships, distribution and sizes, differences of populations in various areas, structural characters, spawning, age and growth; condition of the fishery, catch composition, age groups, etc. Bibliography (61 items).

**Copy seen:** DI.

**25676. ROUSSEAU, JACQUES, 1905-** , and M. RAYMOND. Un *Agosotis* nouveau pour l'est de l'Amérique du Nord. (Naturaliste canadienne, Nov.-Dec. 1951. v. 78, no. 11-12, p. 353-60, 2 illus.) **Title tr.:** A new *Agosotis* from eastern North America.

*Contains* a description of a new species *Agosotis naskapensis* Rousseau & Raymond, n. sp., found by the authors in the central, and highest part of the Quebec-Labrador Peninsula, Otish Mts. in 1949. Differential characteristics of other species of this group are given and a key included. The region of the Otish (formerly called Watshich) Mts., "the hydrographic pivot of the province of Quebec," is briefly characterized. Bibliography (5 items).

**Copy seen:** CaMAI.

**25677. ROUSSEAU, JACQUES, 1905-** . Atroverso il Quebec artico. (Le vie del

mondo, Feb. 1952. Anno 14, no. 2, p. 143-54, illus. map) **Title tr.:** Across arctic Quebec.

A popular account of a journey on foot and by canoe in the summer of 1948 across Ungava Peninsula from Povungnituk on Hudson Bay (60° N. 78° W.) to Payne Bay (60°2' N. 70°2' W.) on Ungava Bay. The party consisted of 10 men (4 scientists, 4 Indians and 2 Eskimos). The first stage of the journey was up the Kogaluk River from mouth to source (about 150 km.). Trails found along the banks had evidently been made by the caribou herds formerly abounding in the region. This was followed by a four-day trip across tundra. Short cold nights alternated with hot days with temperatures up to 31° C. The rivers here are fed by the surface layer of the ice which lies only 50 cm. beneath the lichen vegetation. Two species of trout were found in great abundance in the rivers: red and lake trout. The party took 2½ days to cross Payne Lake (59°25' N. 74° W.), which is 100 km. long and 25 km. wide. The author called this body of water Lake Saint-Exupéry in memory of his friend, the writer Antoine de Saint-Exupéry. The ruins of an abandoned Eskimo settlement were found near the western tip of the lake. The final stage of the expedition was a trip down Payne River to Payne Bay, a distance of 250 km. Eight photographs illustrate the terrain and Eskimo inhabitants of the region.

**Copy seen:** CaMAI.

**25678. ROUSSEAU, JACQUES, 1905-** . Basic principles for the protection of the barren ground caribou and reindeer breeding in Quebec. (Province of Quebec Association for the Protection of Fish & Game. Annual report 92, May 1951, p. 28-35; text also in French section, p. 28-35)

*Contains* brief statement of the climatic zones of northern Quebec, followed by estimate of the caribou population, remarks on causes of its decline and an outline of recommendations for its protection, including legislative, biological and educational means. Bibliography (6 items).

**Copy seen:** CaMAI.

**25679. ROUSSEAU, JACQUES, 1905-** . By canoe across the Ungava Peninsula via the Kogaluk and Payne Rivers. (Arctic, Autumn 1948. v. 1, no. 2, p. 133-35)

*Contains* report on author's plan to make phytogeographic investigations in

the interior of Ungava Peninsula and northern Quebec in general, as hitherto unexplored areas, to contribute new data in relation to M. L. Fernald's hypothesis of persistence of plants in unglaciated areas in northeastern North America. Three different areas were studied: (1) subarctic forests in the limestone area of Lake Mistassini, 1944-47; (2) survey of George River, summer 1947; (3) a sector of Ungava Peninsula north of the timber line between Hudson Bay and Ungava Bay via the Kogaluk and Payne Rivers in summer 1948. The present report gives preliminary account of the 1948 trip: the four-man party with Eskimo and Indian guides, the route, wild life observed, etc. The two rivers are briefly characterized.

**Copy seen:** CaMAI; DLC.

**25680. ROUSSEAU, JACQUES, 1905-** . Le caribou et le renne dans le Québec arctique et hémiarctique. (Revue canadienne de géographie, juil.-oct. 1950. v. 4, p. 60-89) **Title tr.:** Caribou and reindeer in arctic and semiarctic Quebec.

Author discusses these animals' species and distribution; the caribou in northern Quebec, its use by the native Eskimo and Naskopi Indian population, the possibility of its domestication, need for renewal of stock, causes of decline in its numbers (enemies, diseases, food deficiency, tundra fire); the reindeer in Lapland, Alaska and the Northwest Territories; a program for introducing it into northern Quebec; problems of transporting stock thither; measures for protecting the remaining caribou in the region. Bibliography (34 items).

A summary of this article was published in: UNESCO International Technical Conference on the Protection of Nature, Lake Success, Aug. 22-29, 1949, Proceedings and papers, Paris-Bruxelles, 1950, p. 538-39 (copy in CaMAI).

**Copy seen:** DLC.

**25681. ROUSSEAU, JACQUES, 1905-** . Dans l'Ungava: 1 Le nord du Québec; terre du silence. 2, En canot, avec les Montagnais. 3, Autour de la marmite des Montagnais. 4, Les chasseurs de caribou. 5, Tempête dans la toundra. (L'Explorateur, revue mensuelle publiée sous le patronage de Pro Juventute, Profondeville, Belgique. July-Nov. 1951, no. 79, p. 25-28, 5 illus.; no. 80, p. 25-28, 5 illus.; no. 81, p. 25-28, 5 illus.; no. 82, p. 25-28, 4 illus.; no. 83, p. 25-29, 4 illus. Identical map in each instalment. Re-

printed with some changes from a series of articles published in *La Patrie*, Montréal. May 28-July 23, 1950. **Title tr.:** In Ungava: 1, The Quebec North, land of silence. 2, In a canoe with the Montagnais. 3, Around the camp kettle of the Montagnais. 4, Caribou hunters. 5, Storm in the tundra.

**Contains** a series of notes prepared for young people, on Rousseau's recent travels: his trip down the George River to Ungava Bay in 1947, his traverse of Ungava Peninsula by the Kogaluk and Payne Rivers in 1948. Includes information and comment on the history, extent, climate, vegetation and natives of northernmost Quebec; the caribou, its role in the native economy and its decline; travel and camping experiences, etc.

**File seen:** CaMAI.

**25682. ROUSSEAU, JACQUES, 1905-** , and MARCEL RAYMOND. *Le Gentiana tenella* Rottb. dans le Québec arctique. (Naturaliste canadien, Feb. 1952. v. 79, no. 2, p. 76-80, illus.) **Title tr.:** *Gentiana tenella*, Rottb. in arctic Quebec.

**Contains** a description of three new forms of variations of this species of gentian; their distribution, including arctic regions and that of Ungava Bay and "Baie Kayak", estuary of the Payne River (60° N. 70° W.) is noted. Bibliography (8 items).

**Copy seen:** DA.

**25683. ROUSSEAU, JACQUES, 1905-** . The identity of vinber and Vinland. (Rhodora, Oct. 1951. v. 53, p. 244-45)

**Contains** remarks on ethnobotanical considerations involved in identity of the "Vinland" mentioned in Norse sagas, as the Nova Scotia - Maine region: discussion of whether the "vinber" of the sagas is a vine, a cranberry or red currant. Bibliography (8 items).

**Copy seen:** CaMAI.

**25684. ROUSSEAU, JACQUES, 1905-** . Labrador et Nouveau-Québec; le rideau se lève sur l'inconnu. (Grolier Society. Le livre de l'année 1951. Montréal, p. 248-52, 4 illus.) **Title tr.:** Labrador and New Quebec; the curtain rises on the unknown.

**Contains** sketch of the mineral, especially ferrous resources of Labrador; their exploration and exploitation; hydroaulic and timber resources.

**Copy seen:** CaMAI.

**25685. ROUSSEAU, JACQUES, 1905-** , and ANTOINE ROY. La mission politi-

que du Père Albanel à la Baie d'Hudson. (Bulletin des recherches historiques, Apr.-June 1950. v. 56, no. 4-6, p. 71-77) **Title tr.:** The political mission of Father Albanel to the Hudson Bay.

**Contains** résumé of Father Albanel's overland trip from Tadoussac to Hudson Bay in 1671-72, followed by the text of a hitherto unpublished despatch from Intendant Talon to Albanel concerning his mission, and commentary on the letter. The latter refers (among other matters) to the relations with the Indians, Radisson and Groseilliers' on Hudson Bay, etc.

**Copy seen:** CaMAI.

**25686. ROUSSEAU, JACQUES, 1905-** . Modifications de la surface de la toundra sous l'action d'agents climatiques. (Revue canadienne de géographie, 1949. v. 3, no. 1-4, p. 43-51, 6 illus.; also issued as Montreal. Botanical Garden, Memoir, no. 10) **Title tr.:** Modifications of the surface layer of the tundra by climatic factors.

**Contains** note of observations made in the course of two traverses of Ungava Peninsula in 1947 and 1948, of some surface phenomena of tundra soils caused by climatic, especially temperature factors. Solifluction, reticulated or polygonal ground, tundra ostioles or soil circles, ochrous hollows, lichenous polygons, are described, particularly in regard to vegetation if present and illustrated from photographs. **Copy seen:** CaMAI.

**25687. ROUSSEAU, JACQUES, 1905-** , and M. PANISSET. Notes sur quelques lichens antibiotiques de la province de Québec; aspect écologique et phytogéographique; aspect microbiologique. (Revue canadienne de biologie, May 1951. v. 10, no. 2, p. 181-82) **Title tr.:** Notes on some antibiotic lichens of Quebec province; ecological and phytogeographic aspect; microbiological aspect.

**Contains** a note by the senior author on the common lichens of the Canadian tundra, and their economic and therapeutic significance. The second note, by Panisset deals with antibiotic and, especially, tuberculostatic properties of alcohol-ether extracts of three species of lichens collected by Dr. Rousseau in northern Quebec. **Copy seen:** CaMAI.

**25688. ROUSSEAU, JACQUES, 1905-** , and MARCEL RAYMOND. Quelques entités nouvelles du nord du Québec. (Naturaliste canadien, Feb. 1952. v. 79,

no. 2, p. 81-84, illus.) **Title tr.:** Some new entities from northern Quebec.

**Contains** a description of five new forms, variations or combinations of plants from the Ungava region; localities, substrates, etc. are considered. **Copy seen:** DA.

**25689. ROUSSEAU, JACQUES, 1905-** . Toundra. (Liaison, Jan. 1950. v. 4, no. 31, p. 31-35) **Title tr.:** The tundra.

**Contains** a sketch of the tundra giving its main characteristics: a treeless, unpeopled arctic desert, with little sun, few plants and poor life in general.

**Copy seen:** CaMAI.

**25690. ROUSSEAU, JACQUES, 1905-** . L'Ungava, sort de sa léthargie. (Grolier Society Ltd. Le livre de l'année 1950. Montreal, 1950. p. 118-22, illus.; also pub. in: L'almanach du peuple, 1951. Montreal, 1950. p. 399-409, 2 illus.) **Title tr.:** Ungava, rising from its lethargy.

**Contains** a popular article on the part of Quebec province north of 53° N. lat. traditionally known as "Ungava" (and to be distinguished from Ungava Peninsula, east of Ungava Bay), after 1912 called "New Quebec," and now Northern Quebec; its area, history, geography, exploration, population, and resources and possibilities for its commercial exploitation. **Copy seen:** CaMAI.

**25691. ROUSSEAU, JACQUES, 1905-** . Les voyages du Père Albanel au lac Mistassini et à la Baie James. (Revue d'histoire de l'Amerique française, Mar. 1950. v. 3, p. 556-86)

**Contains** an account of the life of Charles Albanel, 1616-1696? Jesuit missionary among Canadian Indians, particularly his overland trip (the first by a white man) from Quebec by Lakes St. John and Mistassini to Rupert River mouth on James Bay in 1670-71, and his second trip in 1673-74 when he was captured by the British. Dr. Rousseau analyses the published and mss. sources of information on these trips and discusses the geographic problems involved. Bibliographical footnotes. **Copy seen:** CaMAI.

**25692. ROUSSEAU, JACQUES, 1905-** . La zone hémiaïarctique. (Royal Society of Canada. Proceedings, 1949. ser. 4, v. 43, appendix F, p. 246, sec. 5, no. 17)

**Contains** abstract of paper: on basis of explorations in northern Quebec in

1940 and 1942 and data from other botanists, author describes a 200-mile zone intermediate between arctic and subarctic, 60-90 per cent, and generally at least 80 per cent arctic. It is characterized by patches of arctic tundra and in valley bottoms by small strips of subarctic forest. For this region he proposes the name: hemiarctic zone.

**Copy seen:** DLC.

**25693. ROUSSEAU, JACQUES, 1905-** . Les zones biologiques de la péninsule Québec-Labrador et l'hémiarctique. (Canadian journal of botany, July 1952. v. 30, p. 436-74, illus., 2 plates, sketch map) **Title tr.:** The biological zones of the Québec-Labrador Peninsula and the hemiarctic zone.

*Contains* discussion of the problem of life zones, characterizing the subarctic, hemiarctic, and arctic zones and delineating them in Northern Quebec and Labrador. The hemiarctic zone is a mixed zone between 55° N. and the absolute limit of trees, which is composed of arctic patches within a net of subarctic forest strips. Bibliography (137 items).

**Copy seen:** DGS.

**ROUSSEAU, JACQUES, 1905-** , *see also* Legendre, V., & J. Rousseau. Distribution quelques-uns de nos poissons dans le Québec arctique. 1949. No. 23731.

**ROUSSEAU, JACQUES, 1905-** , *see also* Montreal. Botanical Garden. Delectus seminum et sporarum. 1951. No. 24449.

**ROUSSEAU, JACQUES, 1905-** , *see also* Ritchie, M. M., & J. Rousseau. Reconnaissance along George R. 1949. No. 25589.

**25694. ROUSSELIÈRE, G. M.** Arctic grandeur. (Beaver, Dec. 1951, p. 14-15) Photographs of Arctic Bay and iceberg in Navy Board Inlet.

**Copy seen:** CaMAI.

**25695. ROUSSELL, AAGE, 1901-** . Nordboerne. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 1, p. 253-74, illus., incl. map) **Title tr.:** The Norsemen.

Review of present-day knowledge of the old Norse colonies on southwest Greenland: the original colonization, the individual colonies, their organization and histories, the churches, graves, farms, and

other archeological finds. Bibliography (5 items).

**Copy seen:** DSI-M.

**ROWE, PETER TRIMBLE, Bishop, 1856-1942,** *see* U. S. Congress. House. Committee on the Territories. Hearings conditions in Alaska. 1912. No. 26928.

**25696. ROWE, ROBERT B.** Pegmatitic mineral deposits of the Yellowknife-Beaulieu region, Northwest Territories. Ottawa, 1952. ii, 36 p., fold. maps and diagrs. (Canada. Geological Survey. Paper 52-8) Mimeographed.

*Contains* information on the internal structure, the occurrence and distribution, and the grade and tonnage of the known economic mineral-bearing pegmatites north of Great Slave Lake, the more important of which occur in the zones of high-grade metamorphism around younger granite intrusions, and contain beryllium, columbium, tantalum and lithium. The illustrative matter includes sketches representing the general geology, detailed geologic plans of specific pegmatite bodies, and a geologic map (scale 1:506,880) of the Yellowknife-Beaulieu region, 62°-63°10' N. 112°-114°30' W.

**Copy seen:** DGS.

**ROWLANDS, I. W.,** *see* Amoroso, E. C., & others. Reproductive organs new-born seals. 1951. No. 20182.

**25697. ROWLEY, DIANA.** Stefansson Island. (Arctic circular, Oct. 1952. v. 5, no. 5, p. 44-53, 2 sketch maps)

*Contains* account of an island off the northeast peninsula of Victoria Island (at approx. 73°10' N. 105° W., area 2,000 sq. miles), on the basis of air photographs (1947, 1948) and the unpublished report and diary of Storker T. Storkerson, who sighted the island in June 1917 while on the Canadian Arctic Expedition 1913-1918, led by Vilhjalmur Stefansson. Previous explorations (1851, 1905, 1915) of the Victoria Island coast are noted, and Storkerson's journey to survey the northeastmost part traced in detail. His sighting and naming of Kilian, Elvira (later termed Elvira) and Leffingwell (now Stefansson) Islands, is discussed; also names of coastal features in the region, and of the strait between Victoria and Stefansson Islands, now known as Goldsmith Channel. Eskimos' knowledge of Stefansson Island as Umingmaliik (place of musk ox) is noted.

**Copy seen:** CaMAI; DLC.

**25698. ROWLEY, GRAHAM W., 1912-** . An unusual archaeological specimen from Foxe Basin. (Arctic, Apr. 1950. v. 3, p. 63-65, illus.)

Note on artifacts collected by Eskimos and said to have come from Pingergalik on the east coast of Melville Peninsula south of Igloodik Island; mainly Thule type, with a small number of Dorset type and one artifact showing characteristics of both types.

**Copy seen:** DAI; DLC.

**ROWLEY, GRAHAM W., 1912-** , see also Davies, F. T. & G. W. Rowley. Deadman & Marble I. 1950. No. 21368.

**ROY, ANTOINE**, see Rousseau, J., & A. Roy. Mission de Père Albanel. 1950. No. 25685.

**ROYAL CANADIAN AIR FORCE**, see Greenaway, K. R. RCAF. high latitude light computer. 1952. No. 22199.

**ROYAL CANADIAN AIR FORCE**, see also Twinn, C. R., & others. Area control mosquitoes by aircraft. 1950. No. 26866.

**ROYAL CANADIAN AIR FORCE. EXPERIMENTAL AND PROVING ESTABLISHMENT**, see Dunbar, M. High latitude navigation flights. 1951. No. 21575.

**ROYAL CANADIAN MOUNTED POLICE**, see Blyth, D. Arctic patrols RCM police 1946-48. 1950. No. 20732.

**25699. ROZANOV, P., and V. SPASKIĬ.** Klimat. (In: Ènĭtsiklopedicheskiĭ slovar' voennoi meditsiny, ed. E. I. Smirnov. Moskva, 1947. t. 2, col. 1299-1311, tables) **Title tr.:** Climate (In: Encyclopedic dictionary of war medicine).

Contains a definition of the term in military medicine (as the sum total of geographic and meteorologic factors apt to influence the health of the armed forces), and sections on: the importance of climate and microclimate for the armed forces and their condition, especially in wintertime; kinds of climate, including: polar climate (col. 1301-2), its area, peculiarities and effect on man; mountain climate (col. 1305), and the arctic-coast climate (col. 1307). Bibliography (about 20 items).

**Copy seen:** DLC.

**ROZE, NIKOLAI VLADIMIROVICH**, see U.S.S.R. Komitet po provedeniiu 2-go Mezhdunarodnogo Polfarnogo Goda. Magnitnye nablūd. 1937. No. 26881.

**25700. ROZEN, O. V.** Nazemnye i presnovodnye mollūski sobrannye Kamchatskoĭ Èkspeditsiei F. P. Rĭabushinskogo v 1908-1909 gg. (Akademiĭa nauk SSSR. Zoologicheskii muzel. Ezhegodnik, 1926, pub. 1927. t. 27, vyp. 2-3, p. 261-73) **Title tr.:** Terrestrial and fresh-water molluscs collected in 1908-1909 in Kamchatka by the F. P. Rĭabushinskii expedition.

Contains a list of 34 terrestrial and fresh-water molluscs, including Latin diagnoses of *Margaritana middendorffii* n. sp. and *Planorbis borealis dershavini* n. var., and a table of their distribution in Kamchatka, Siberia and Europe.

**Copy seen:** DSI-M; MH-Z.

**ROZENOER, S. M.**, see Burskiĭ P. D., & S. M. Rozenoer. Ot Urala do Velikogo ok. 1928. No. 21037.

**25701. ROZENTAL', S.** Kapronovye seti na Pechore. (Rybnoe khozĭstvo, Oct. 1952. v. 28, no. 10, p. 60) **Title tr.:** Caprone nets on the Pechora.

Contains a report on nets made of caprone twine and introduced into the Pechora fisheries. These nets yielded higher catches, dried much quicker, were more resistant to wear and tear than linen-hemp, or cotton nets. Used for under-ice fishing they also proved superior to all other kinds and are reported here as especially good for arctic conditions.

**Copy seen:** DLC.

**25702. ROZHEVIŤS, ROMAN IŬL'E-VICH, 1882-** . Monografiĭa dikorastushchikh i sorno-polevykh vidov rzhisecale L. (Akademiĭa nauk SSSR. Botaničeskii institut im. Komarova. Trudy, 1947. Seriiĭa I. Flora i sistematika vysshikh rastenii. vyp. 6, p. 105-163, illus., text maps) **Title tr.:** Monograph on the rye genus *Secale* L. growing wild and semi-wild.

Contains a morphological study of rye (gen. *Secale*), a table for the determination of the species, a systematic revision of 14 wild-growing species of rye, divided by the author into three essential ranges, and several varieties and forms, with synonymy, morphological characteristics, habitat, distribution and economic importance, a discussion of the evolution and formation of species in the gen. *Secale*; bibliography (41 items). Includes some species spreading up to 70° N. Summary in English.

**Copy seen:** DLC; MH-A.

**25703. ROZHEVITS, ROMAN IUL'EVICH, 1882-** . Novye zlaki, V. Gramineae novae, V. (Akademiia nauk SSSR. Botanicheskiĭ institut. Botanicheskie materialy gerbariia, 1949, t. 11, p. 18-31) *Title tr.*: New grasses, V.

*Contains* diagnoses and data on habitat and distribution of 13 new species of grasses from various regions of the world, including *Poa anadyrica* and *P. filiculmis* n. ssp. native to Anadyr River region, eastern Siberia and *Puccinellia taimyrensis* n. sp. from Taymyr Peninsula. Latin and Russian text. *Copy seen*: MH-A.

**25704. ROZHKOVA, B. N., and G. G. MOOR.** Granity anabarskogo dokembriia i sviazyane s nimi proiavleniia metallonosnosti. (Akademiia nauk SSSR. Izvestiia. Seriiia geologicheskaiia, 1936, no. 5, p. 729-73, sketch map) *Title tr.*: Anabar pre-Cambrian granites and the ore concentration phenomena connected with them.

*Contains* account based on an exploratory trip and three geological expeditions made during 1932-34 through the Anabar massif (69°-72° N. 106°-112° E.). Includes data on: the topography, relief, administration, economy, communications, etc., of the area; its geology, tectonics, mineralogy; the distribution, character, mineralogical and chemical composition of the Anabar granites; granite intrusions; metalliferous veins; auriferous sulphides (most common), signs of tin, molybdenum and tungsten ores. Bibliography (8 items). Summary in English. *Copy seen*: DLC.

**25705. ROZHKOVA, B. N., and G. G. MOOR.** O nizhnem Kembrii Anabarskogo raiona. (Akademiia nauk SSSR. Izvestiia, Seriiia geologicheskaiia, 1936, no. 4, p. 455-58) *Title tr.*: The lower Cambrian system of the Anabar District. "Stratigraphic relations of the Collenia and Archaeocyathus horizons of the Anabar district, central Siberia; faunal lists include names of many new species."—Geological Society of America, *Bibliography and index of geology*, 1937, v. 5, p. 255. Summary in English. *Copy seen*: DLC.

**ROZHKOVA, B. N.,** see also Moor, G. G., & B. N. Rozhkov. On finding of bituminous rocks. 1935. No. 24458.

**ROZOVA, A.,** see Dogel', V. A., & A. Rozova. Parazitofauna chetyrekhrogo bychka. 1941. No. 21494.

**25706. RUBIN, ALEKSEI MIKHAILOVICH, 1895-1936.** Nizhne-Tunguskaiia ekspeditsiia Akademii nauk SSSR. (Akademiia nauk SSSR. Doklady, seriiia A, 1932, no. 15, p. 369-73, sketch map) *Title tr.*: The Lower Tunguska Expedition of the Academy of Sciences, U.S.S.R.

Itinerary and activities of this expedition of 1932 are outlined. The expedition was organized by the Polar Commission and the SOIUZ for the study of the productive powers of the U.S.S.R. The aim of the expedition was to study the relief of the area, permafrost and its effect on building, areas suitable for building, soils, agricultural possibilities, forests, etc. *Copy seen*: DLC.

**25707. RUBIN, S. I.** Morskoĭ led, kak istochnik vody dlia pitaniia parovykh kotlov. (Rybnoe khoziaistvo Dal'nego Vostoka, 1931, no. 11-12, 61-65) *Title tr.*: Sea ice as source of water for steam boilers.

A chemo-physical study of the problem caused by a shortage of fresh water in some ports due to drought.

*Copy seen*: DLC.

**25708. RUCKLI, ROBERT, 1906-** . Der Frost im Baugrund. Wien, Springer-Verlag, 1950. xiii, [2], 279 p., illus., diags. *Title tr.*: Frost in foundation soil.

"A treatise on ground frost problems based on field observations, laboratory results, and construction methods is presented. A mathematical treatment of the behavior of frozen soils is made. Temperature distribution in soils and the measurement of temperature are included. Various frost phenomena theories including the crystallization, capillary, and cohesion strength theories are compared and critically analyzed. A new theory of frost lens formation is formulated. An analysis is made of frost action under cold storage structures. Construction methods for preventing frost damages are described."—SIPRE.

*Copy seen*: DGS; DLC.

**25709. RUDENIKO, S. I.** Kul'tura doistoricheskogo naseleniia Kamchatki. (Sovetskaiia etnografiia, 1948, no. 1, p. 153-79, illus., map) *Title tr.*: The culture of the prehistoric inhabitants of Kamchatka.

*Contains* an outline of previous archeological and paleo-ethnographic work in Kamchatka; descriptions of early dwell-

ings, food gathering, fishing and hunting implements, knives, scrapers, chisels, borers, domestic utensils, food preparation; pottery, miscellaneous objects (combs, awls, etc.) and figurines. Bibliographical footnotes

**Copy seen:** DLC.

**25710. RUDENKO, S. I.** Tatuirovka aziatskikh Eskimosov. (Sovetskafâ etnografiâ, 1949. no. 1, p. 149-54, illus.) **Title tr.:** Tattooing of the Asiatic Eskimos.

On the basis largely of his observations among the Eskimos along the Chukotsk Peninsula coast in 1945, the author presents details of the technique, designs (32 illustrated) used generally and with respect to body areas and sex, history of tattooing in his region, etc.

**Copy seen:** DLC.

**RUDENKO, T. M.,** see Fridman, S. L., & T. M. Rudenko. Sorevnovanie tralmeisterov. 1952. No. 21946.

**25711. RUDNEV, D., and N. KULIK.** Materialy k izucheniiu siâvernogo morskogo puti iz Evropy v Ob' i Enisel. Petrograd, 1915. vi, 127 p., map. **Title tr.:** Contributions to the knowledge of the Northern Sea Route between Europe and the Rivers Ob' and Yenisey.

Contains introductory remarks (p. 1-26) on the importance of the Northern Sea Route, its climatic and ice conditions and currents; a tabular presentation (p. 27-45) of expeditions from Europe to Siberia, indicating dates, type and names of ships, their owners or captains, area or destination and achievements, from the *Bona Esperanza* of Willoughby in 1553, to the *Gerkules* of V. Rusanov in 1912, altogether over 170 expeditions; brief meteorological data (p. 45-56); chronological list of official decrees and permits to import goods, with statistics on imports (p. 57-59); bibliography of books (767 items) and maps (30 items). Summary in English. *Map* of Barents and Kara Seas (to the Yenisey).

**Copy seen:** CST-H.

**RUDOLPHI, JOH.,** see Holmgren, A. E. Parasitsteklar insamlade af J. Rudolphi. 1884. No. 22689.

**25712. RUDOVÎTS, ÎU. L.** Novye dannye o geologicheskom stroenii o. Kolgueva. (Moskovskoe obshchestvo ispytatelei prirody. Bûlleten', 1939. Novafâ seriâ, t. 47. Otdel. geol. t. 17, vyp. 6, p. 81-84) **Title tr.:** New data

on geological structure of Kolguev Island.

Contains a brief geomorphological description of the Kolguev Island and a study of its stratigraphy (Quaternary deposits). **Copy seen:** DLC; MH-Z.

**25713. RÛMKER, KARL LUDWIG CHRISTIAN, 1788-1862.** Observations critiques sur l'expédition du capitaine Ross dans la baie de Baffin, en 1818. (Extrait d'une lettre). (Journal des voyages, découvertes et navigations modernes, 1819. t. 4, p. 10-20) **Title tr.:** Critical observations on the Ross Expedition to Baffin Bay, 1818. (Extract from a letter).

Rûmker (in a letter to Baron de Zach, dated from London, July 6, 1819) discussed approaches to the North Pole via Baffin Bay, the Pacific, across Canada, etc., and remarked on variations in the magnetic compass noted by Ross and other voyagers.

**Copy seen:** DLC.

**25714. RUMSH, L. T.** K faune komarov Kamchatki. (Parazitologicheskii sbornik, 1948. t. 10, p. 96-98) **Title tr.:** A contribution to the mosquito fauna of Kamchatka.

Contains a list of 11 species of mosquitoes of Kamchatka Peninsula (including eight new to that area), based on the study of larvae collected in 1908-1909 by A. N. Derzhavin during expedition of F. P. Rûbushinskii, with localities and notes on habitat. Their probable origin from the Anadyr region and monotonous character of species composition is stressed. Bibliography (7 items).

**Copy seen:** DLC; MH-M.

**25715. RUMSH, L. T.** Komary severa SSSR. (Parazitologicheskii sbornik, 1948. t. 10, p. 87-95) **Title tr.:** Mosquitoes of northern U.S.S.R.

Contains a list of 20 species of mosquitoes distributed in practically all arctic regions of European and Asiatic U.S.S.R. and in northern Scandinavia, a table of 23 species occurring in palaeartic and nearctic regions and a scheme of division of mosquitoes into five landscape groups. **Copy seen:** DA; DLC; MH-M.

**25716. RUNE, OLOF.** *Draba cacuminum* i Sverige. (Svensk botanisk tidskrift, 1950. Bd. 44, hæfte 3, p. 497-503, illus.) **Title tr.:** *Draba cacuminum* in Sweden.

Contains the report of the find of the high alpine plant, *Draba cacuminum*, on

the northern peak of Mt. Mieskattjälko, Tärna district, southern Lapland; this plant, endemic in Scandinavia and considered as an "arctic relict", is also known from Tromsø and Finnmark, northern Norway.

**Copy seen:** DA; MH-A.

**25717. RUNE, OLOF.** *Kobresia simpliciuscula* funnen i Lappland. (Botaniska notiser, 1949. Häfte 4, p. 441-44, illus.)  
**Title tr.:** *Kobresia simpliciuscula* found in Lapland.

Contains a description of the find of this plant in the northern part of Lycksele Lappmark (parish of Sorsele) in Sweden, growing on calcareous phyllitic rocks at 980 m. altitude; it was previously known only from southern part of the Scandinavian mountain range. Summary in English.

**Copy seen:** DLC; MH-A.

**RUNEMARK, HANS,** see Persson, A., & H. Runemark. Same vegetation types of Torneträsk. 1950. No. 25043.

**25718. RUPASOV, N. F.** Lechenie ot-morozhenii v tylovom gospi-tale. (Vestnik khirurgii, Feb. 1941. t. 61, kn. 2, p. 277)  
**Title tr.:** Frostbite therapy in the rear hospital.

Contains summary of a report read before the Second Conference on Local Anesthesia and Wound Therapy according to Methods of A. V. Vishnevskii (Moscow, Oct. 28-29, 1940). 424 patients already supplied with specific bandaging and treatment in the front-line hospitals, were further studied. The effects of transportation on the bandages and injuries are discussed. **Copy seen:** DLC.

**RUSAKOV, M. G.,** see Khar'kov, I. I. Ispol'zovanie podkozhnogo sala kashalota. 1952. No. 23230.

**RUSK, HOWARD A.,** see Kile, R. L., & H. A. Rusk. Case of cold urticaria with unusual family history. 1940. No. 23248.

**RUSNACHENKO, N. N.,** see Leningrad. Vsesoiuznyi arkticheskii institut. Rezul'taty nabl'd. pol'farnykh magnitnykh observ. 1934-35. 1938. No. 23772.

**25719. RUSSEK, HENRY I., and B. L. ZOHRMAN.** Influence of age upon blood pressure response to the cold-pressor test. (American heart journal, Jan. 1945. v. 29, p. 113-19)

Contains a report on cold-pressor reaction measurements made on 350 male

subjects over 40 years old. The response of blood pressure to a standard cold stimulus tended to increase with age, apparently as a result of increasing irritability of the vasomotor centers; this response seems to be physiologic and no connection with hypertension, potential or latent, could be established. Bibliography (25 items). **Copy seen:** DLC.

**RUSSELL, B. E.,** see Eckenfelder, G. V., & B. E. Russell. Snare River power project. 1950. No. 21603.

**25720. RUSSELL, FRANK, 1868-1903, and H. M. HUXLEY.** A comparative study of the physical structure of the Labrador Eskimos and the New England Indians. (American Association for the Advancement of Science. Proceedings, 1899. v. 48, p. 365-79, tables)

This paper read before the Anthropology Section of A. A. S. at its 48th meeting, Columbus, Ohio, Aug. 1899, presents detailed tabular results of comparisons between skulls and long bones of Massachusetts Indians and Labrador Eskimos, showing no evidence of intermixture of these peoples.

**Copy seen:** DGS.

**25721. RUSSELL, H. D., and others.** Physiological reactions of men working in the cold in relation to the amount of clothing worn. (Federation proceedings, Feb. 1946. v. 5, p. 90) **Other authors:** H. S. Belding, and R. C. Darling.

Contains an abstract on experiments with man performing the same walks at 0° F., in four different clothing outfits. The men were most comfortable in two medium weight outfits (11 or 17 lb.); average data on skin and rectal temperature, energy production, pulse, etc., for men in these clothes, as well as for those in lightest and heaviest clothing, are given.

**Copy seen:** DLC.

**RUSSELL, H. D.,** see also Belding, H. S., & others. Analysis factors energy balance extreme cold. 1947. No. 20540.

**RUSSELL, H. D.,** see also Belding, H. S., & others. Thermal responses & efficiency of sweating. 1947. No. 20542.

**25722. RUSSELL, SCOTT.** The effects of arctic and high mountain climates on the carbohydrate content of *Oxyria digyna*. (Journal of ecology, 1948. v. 36, p. 91-95, tables)

Report on work conducted in 1938 on Jan Mayen Island at sea level and in 1939 at Karakorum, Himalaya, at 12,500

ft. altitude to establish the effect of cold and daylight on plant growth. The low mean-temperature and short growing season, are common to both regions, while the light conditions differ sharply. A comparison of mature leaves of *Oxyria digyna* growing in the two places showed "a surprising similarity with regard to total carbohydrate content, the ratio of reducing sugar to total sugar and the range of diurnal variation." The growth rates too were not greatly different. Exposure to continuous daylight in the Arctic had no special effect. Bibliography (6 items). **Copy seen:** DA.

**RUSSKOE ENTOMOLOGICHESKOE OBSSHCHESTVO, S. PETERBURG**, see Oshanin, V. F. Tables générales des pub. Société Entomol. 1910. No. 24876.

**25723. RUSSOW, FR.** Beiträge zur Geschichte der ethnographischen und anthropologischen Sammlungen der kaiserlichen Akademie der Wissenschaften zu St. Petersburg, St. Petersburg, 1900. xx, 153 p. (Akademiâ nauk. Muzei po antropologii i étnografii. Sbornik, t. 1, vyp. 1) **Title tr.:** Contributions to the history of ethnographical and anthropological collections at the Imperial Academy of Sciences in St. Petersburg.

Contains on p. 37-109 the instructions given by G. F. Müller to J. E. Fischer on how the ethnographical description of the Siberian peoples should be made in the course of field work. It is a questionnaire on ethnology, folklore and linguistics; frequent references are made to Ostyaks, Voguls, Chukchis, Koryaks, Yakuts, Samoyeds and other northern peoples, particularly in regard to kinds of material to be sought among them (totally 923 questions). Appended are instructions for drawing maps of the locality, sketching landscapes, objects, feasts and ceremonies. A vocabulary is given as an example for collection of native words. **Copy seen:** DSI-M.

**25724. RUTENBERG, E.** Dve formy *Pleurogrammus monopterygius* (Pallas) i variirovanie bokovykh linií u étoego vida (Pisces, Hexagrammidae). (Akademiâ nauk SSSR. Zoologicheskii institut. Trudy, 1932. t. 1, vyp. 1, p. 59-72, illus.) **Title tr.:** Two forms of *Pleurogrammus monopterygius* (Pallas) and the variation of lateral lines of this species (Pisces, Hexagrammidae).

Contains a study of variation of lateral lines of two forms of *Pleurogrammus*

*monopterygius* based on the examination of 15 specimens of this fish, distributed in the Bering Sea and in Aleutian waters, with one table of dimensions of southern and northern forms and another with formulae of their lateral lines. Summary in English. **Copy seen:** DLC; MH-Z.

**25725. RUTHE, KURT.** Bericht über die kartographischen und gletscherkundlichen Ergebnisse der Deutschen Spitzbergen-Expedition 1938. (Polarforschung, 1941. Jahrg. 11, Heft. 1, p. 6-8) **Title tr.:** Report on the cartographic and glaciological results of the German Spitsbergen Expedition 1938.

General report in some detail of the work of Wolf Pillewizer on the glaciers of Hornsund and King's Bay regions. The ground photogrammetric surveys of Gänse Glacier, Hansbre tongue and Hornsund Glacier, measurement of glacial movement, ablation studies and comparative position of glacier fronts are reviewed. **Copy seen:** DGS.

**25726. RUTHE, KURT.** Die Erschließung der russischen Arktis. (Polarforschung, 1940. Jahrg. 10, heft. 1, p. 1-5; heft 2, p. 2-4) **Title tr.:** The opening up of the Russian Arctic.

Pt. 1 gives definition of the Russian "sector" of the Arctic, and historical sketch of ice-breaker, airplane and radio work in exploring, studying and bringing into use the Northern Sea Route. Pt. 2, "economy and culture", briefly summarizes the organization of trusts for exploitation of natural resources, under the Main Administration of the Northern Sea Route, the colonization and settlement program, all in the 1930s; and notes geopolitical relationships of the northern boundary areas. **Copy seen:** DGS.

**25727. RUTHE, KURT.** Die Fahrt des Hilfskreuzers "Komet" durch die Nordostpassage. (Polarforschung, 1943. Jahrg. 13, Heft 1, p. 5-7) **Title tr.:** The voyage of the cruiser *Komet* through the Northeast Passage.

The German cruiser made the passage from the Barents Sea to Bering Strait in 23 days, Aug.-Sept. 1940. A chronicle of her voyage is given here.

**Copy seen:** DGS.

**25728. RUTHE, KURT.** Die Grönland-Expedition der Universität Oxford 1938. (Polarforschung, 1941. Jahrg. 11, Heft. 1, p. 1-6) **Title tr.:** The Oxford University Greenland Expedition 1938.

Account of a seven-man expedition to the Sukkertoppen region of the icecap, West Greenland, summarizing the work done on radiation, glaciology, meteorology, and measurement of the rate of movement of the glacier Taterât Brae.

**Copy seen:** DGS.

**25729. RUTHE, KURT.** Die kulturelle und wirtschaftliche Ausbau Grönlands. (Polarforschung, 1948, pub. 1950. Bd. 2, Jahrg. 18, p. 17-19, i. e., p. 213-15) **Title tr.:** Cultural and economic structure of Greenland.

Brief summary (in general terms) of modern technical improvements in electrification, harbors, streets, etc., meteorological and radio stations, the economic development of fisheries, sheep raising and hunting; also comment on developments in public health education and administration in Greenland.

**Copy seen:** DGS.

**25730. RUTHE, KURT.** Navigation in Eis. (Polarforschung, 1946, pub. 1948. Bd. 2, Jahrg. 16, p. 107-110) **Title tr.:** Navigation in ice.

Review and summary of a section on the Siberian Sea Route in ice-pilot Captain Otto Kraul's *Die Fahrt durch das Eis* (not otherwise identified). Author notes the ways to apprehend proximity to ice: ice blink, fog and state of sea which is either lessened in the lee of an ice field or noisy if breaking on its edge; the state of the ice on the Northern Sea Route and the best months for navigating there; the use of ice-breakers, ice reconnaissance and forecasting; strengthening of the ship; outfitting for the trip; pointers on keeping the course and avoiding dangers, and on speeds for various types of ice navigation.

**Copy seen:** DGS.

**25731. RUTHE, KURT.** Über Briefmarken der Polargebiete. (Polarforschung, 1945. Jahrg. 15, p. 22-25) **Title tr.:** Postage stamps of polar regions.

For the Arctic, the author notes Russian issues during 1931-38, Norwegian, 1925-38, Greenland, 1937-38, and German, 1931. For the Antarctic, he notes New Zealand and United States issues.

**Copy seen:** DGS.

**25732. RUTLEDGE, F. A.** Investigation of mercury deposits, Cinnabar Creek area, Georgetown and Akiak districts, Kuskokwim region, southwestern Alaska. Washington, 1950. 2 p. l, 9 p.,

7 plates (incl. 3 maps). (U. S. Bureau of Mines. Report of investigations 4719) Mimeographed.

Notes on location, accessibility, physical features, climate, development of the region, property, and ownership; description of geology and of the ore deposits in the area 60°42' N. 158°46' W.

**Copy seen:** DGS.

**25733. RUTLEDGE, F. A., and J. I. MULLIGAN.** Investigation of the Millett copper deposit, Iliamna Lake, southwestern Alaska. Washington, D. C., 1952. 2 p. l, 22 p., 12 plates (incl. 2 maps), tables. (U. S. Bureau of Mines. Report of investigations 4890) Mimeographed.

Contains a report on the general geology, and mineralization, and sampling of records, drill-hole logs and results of assays of the copper deposit at Millett Point on the north shore of Iliamna Lake (about 59°47' N. 154°31' W.). "Copper mineralization occurs in a zone of altered limestone adjacent to and intruded by a diorite porphyry with some diabase facies."

**Copy seen:** DM.

**RUTLEDGE, F. A., see also Warfield, R. S., & F. A. Rutledge.** Investigation Kasma Creek copper prospect Alaska. 1951. No. 27265.

**25734. RUUD, JOHAN TIDEMAND.** De norske hvalundersøkelser, en oversikt over virksomheten ved Statens institutt for hvalforskning. (Norsk polar-tidende, no. 7-12, Polarårboken 1952, p. 13-15, illus.) **Title tr.:** Norwegian whale research, a review of activities of the State Institute for Whaling Research.

Contains an account of the history and activities of the Institute. It began in 1924 with Hjort's *Michael Sars* expedition to Davis Strait, and was financed till 1929 by the Norwegian Whalers Assn. From 1930 it was organized as the Scientific Division of the Norwegian Whaling Board and its name was changed in 1934 to the State Institute for Whaling Research, which collaborates through its director, J. T. Ruud, with the University. Summary in English.

**Copy seen:** CaMAL.

**RUUD, JOHAN TIDEMAND, see also Pedersen, T., & J. T. Ruud.** Bibliography of whales & whaling. 1946. No. 25019.

**25735. RUZSKII, MIKHAIL DMITRIEVICH.** Murav'i Rossii. (Formicariæ

Imperii Rossici). Sistematika, geografiya i danniya po biologii russkikh murav'ev, I-II. Kazan', Tipolitogr. Univ-ta, 1905-1907. 2 pt. I: 799 p., illus. (176 fig.); II: 122, [1-3] p. (Kazan' Universitet. Obshchestvo estestvoispytatelei. Trudy. t. 38, vyp. 4, 5, 6; t. 40, vyp. 4) **Title tr.:** Ants of Russia. Systematics, geography and data on biology of Russian ants.

**Contains** in pt. I: introductory remarks; bibliography (866 items) p. 13-70, with two supplements (no. 867-915) p. 181 and 761-64; a systematic revision of Russian ants, p. 78-180, with historical notes, data on various systems of classification, number of genera and species, general characteristics of Formicariae, synoptical tables, (p. 99-180); descriptions of 161 species (in three subfamilies) and numerous varieties, p. 181-760, with synonymy, and critical notes and data on biology, ecology and geographic distribution (lists of European and Asiatic localities) of Russian ants; additions and corrections, p. 764-70; a list of collectors, p. 771-77, and an index of Latin names, p. 778-96. Pt. II: 3d and 4th supplements to bibliography (nos. 916-64, 965-67); a general review of the ant fauna of Russia, p. 8-27; a survey of distribution in Russia by biogeographic regions p. 27-102 (see the table, p. 33-42); and survey of distribution by geographic regions (European Russia, Crimean Peninsula, Caucasus, Siberia and Turan), p. 102-122. Includes some species native to northern Finland, European (Kola Peninsula and Arkhangel'sk province) and Asiatic Russia.

**Copy seen:** MH-Z.

**25736. RUZSKII, MIKHAIL DMITRIEVICH.** Novye dannye po faune murav'ev Sibiri. (Russkoe entomologicheskoe obozrenie, 1925. t. 19, vyp. 1, p. 41-46) **Title tr.:** Contribution to the ant fauna of Siberia.

**Contains** a list of about 65 new or noteworthy forms of ants of Siberia and adjoining regions, including two new varieties collected during 1914-16; a few forms are native to the Kamchatka Peninsula. Summary in French.

**Copy seen:** DSI-M; MH-Z.

**25737. RYAN, JOHN JOSEPH.** The Maggie Murphy. [1st ed.]. New York, Norton [1951]. 224 p.

Story of a summer's fishing by two high-school graduates who built their boat, the *Maggie Murphy*, sailed from Puget Sound to the Southeast Alaska

fishing grounds, and trolled for salmon in the commercial fishery. Informative account of the habits, methods, dangers, and profits of the fishermen.

**Copy seen:** DLC.

**25738. RYDÉN, NILS.** Till kännedomen om svenska bladminerare. Zur Kenntnis der schwedischen Blattminierer, X-XI. (Notulae entomologicae, 1949. Bd. 14, häft. 1, p. 85-88; (XI) 1951, Bd. 16, häft. 1-2, p. 41-43) **Title tr.:** A contribution to the knowledge of Swedish leaf miners, X-XI.

**Contains** (in pt. X) a list of 12 species of leaf miners new to the Swedish fauna of which five are native to Swedish Lapland; another list of 44 species new to various regions of Sweden, including 16 new to Åsele, Lule and Torne Lappmark, and descriptions of 3 new species, including *Phytomyza umensis* n. sp. collected in Åsele Lappmark, and *P. lapponica* captured in Torne Lappmark. Pt. XI is a list of 80 leaf miners from various regions of Sweden, with notes on four species new to the fauna of that country, including *Ophiomyia (Tylomyza) madizina* captured at Kvikkjokk, Lule Lappmark.

**Copy seen:** MH-Z.

**25739. RYDÉN, NILS.** Zur Kenntnis der schwedischen Blattminierer, XII. Über Agromyziden des Reichsmuseums. (Entomologisk tidskrift, 1951. Årg. 72, häft. 3-4, p. 168-80) **Title tr.:** A contribution to the knowledge of Swedish leaf miners, XII. On Agromyzidae of the State Museum.

**Contains** a critical revision of Swedish species of leaf miners (Agromyzidae) of the State Museum at Stockholm (Riksmuseum), with a list of about 275 species, (no data on distribution); another list of these flies, arranged according to F. Hendel, with brief notes on distribution in Sweden, including at least 20 species native to Swedish Lapland, and critical notes on 12 species (two species and one variety described as new); includes *Icteromyza linella* from Muonioniska, Torne Lappmark. **Copy seen:** MH-Z.

**25740. RYDÉN, NILS.** Zur Kenntnis der schwedischen Blattminierer XIII. Agromyziden aus dem Sarekgebiet in Schwedisch Lappland. XIV *Liriomyza scorzonerae* nov. sp. (Opuscula entomologica, 1951. Bd. 16, häft. 3, p. 188-190) **Title tr.:** Contribution to the knowledge of Swedish leaf miners, XIII-XIV.

**Contains** (in pt. XIII) a diagnosis of

*Phytomyza sarekensis* n. sp. and critical notes on five other species of leaf-miners from the Sarek region of Swedish Lapland, based on the collection of the State Museum at Stockholm.

**Copy seen:** MH-Z.

**25741. RYKACHEV, MIKHAIL ALEKSANDROVICH.** Vskrytiia i zamerzaniia vod v Rossiiskoi Imperii. Sanktpeterburg, 1886. 104, 309 p. 3 fold. maps, tables. **Title tr.:** The break-up and freeze-up of the waters of the Russian Empire.

**Contains** a general part (p. 1-104) dealing with the material utilized; methods and calculations of averages, ice-free periods, and their dependence on climatic factors. Then follows alphabetic list of rivers, lakes, seas, etc., where observations were made (p. 67-101). The second part (p. 1-309) contains tables of localities in alphabetical order, with detailed data for each one: length of observations, dates of freezing and break-up and number of ice-free days; geographic coordinates, source of data, etc., are also indicated. Northern localities are represented by stations on the White Sea coast, the Rivers Ob', Yenisey, Lena, Yana, Indigirka, Kolyma, etc. Bibliographical footnotes. **Copy seen:** DLC.

**25742. RYLOV, VIACHESLAV MIKHAILOVICH, 1889-1942.** Hydroidea i Aleynaria, sobrannye v Barentsovom more Murmanskoi biologicheskoi stanitsiei vo vremia relsov po Kol'skomu meridianu v 1921 g. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik 1926, pub. 1927. t. 27, vyp. 2-3, p. 235-47, illus.) **Title tr.:** Hydroidea and Aleynaria collected in Barents Sea by the Murmansk Biological Station during cruises along the Kola meridian in 1921.

**Contains** a list of 8 hydroids and 5 aleynarians, collected in Barents Sea along the 32°30' E. long. meridian, with some critical notes, zoogeographic data, a list of ten stations and a bibliography (20 items). **Copy seen:** DSI-M; MH.

**25743. RYLOV, VIACHESLAV MIKHAILOVICH, 1889-1942.** Materialy k fauně svobodnozhivushchikh prirodnodnykh Copepoda severnoi Rossii. Chast' I. Calanoida i Cyclopoida; Chast' II. Cyclopoida i Harpacticoida. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1917, pub. 1918. t. 22, no. 1-3, p. 247-310, illus.; (II) 1918. t. 23,

no. 1, p. 43-96, illus.) **Title tr.:** Contribution to the fauna of free-swimming fresh-water copepods of northern Russia. Part I. Calanoida and Cyclopoida; Part II. Cyclopoida and Harpacticoida.

**Contains** a survey of 13 collections of fresh-water copepods from the Murman coast, Solovetskiye Islands and Arkhangel'sk province, deposited at the Zoological Museum of the Academy of Sciences, a review of the literature and a critical revision of 7 copepods of Calanoida, 18 of the fam. Cyclopidae and 5 of Harpacticidae, with synonymy, critical notes, lists of localities in northern European Russia and data on total distribution; bibliography (135 items).

**Copy seen:** DLC; MH-Z.

**25744. RYLOV, VIACHESLAV MIKHAILOVICH, 1889-1942.** Obzor prirodnodnykh vodoemov Murmanskogo poberezh'ia izslédovannykh liétom 1915 g. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1916, pub. 1917. t. 21, p. xvi-xxvii) **Title tr.:** Sketch of the fresh-water basins of the Murman Coast, explored in the summer of 1915.

**Contains** a brief description of various fresh-water basins (small lakes, ponds, pools, etc.) along the Murman coast and on small islands off the coast, with data on temperature, color and transparency of the water, depth, bottom, shores and aquatic vegetation.

**Copy seen:** DLC; MH-Z.

**25745. RYLOV, VIACHESLAV MIKHAILOVICH, 1889-1942.** Zametka o sistematičeskom položenii *Canthocamptus similis* Lill. (Eucopopoda, Harpacticoida). (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1922, t. 23, no. 2, p. 211-17) **Title tr.:** Note on the systematic position of *Canthocamptus similis* Lill. (Eucopopoda, Harpacticoida).

**Contains** a morphological study of an entomostracan crustacean, *Canthocamptus similis* from a fresh-water lake near Kovda Bay, White Sea, and its transfer to the genus *Moraria* (*Ophiocamptus*) Scott, with data on its distribution in Russia (Novaya Zemlya and Siberia).

**Copy seen:** DLC; MH-Z.

**25746. RYLOV, VIACHESLAV MIKHAILOVICH, 1889-1942.** Zoologische Ergebnisse der russischen Expeditionen

nach Spitzbergen. Hydroidea-Athecata. (Akademika nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1923. t. 24, p. 140-60, plate 6) **Title tr.:** Zoological results of Russian expeditions to Spitzbergen. Hydroidea-Athecata.

Contains a systematic list of 22 hydroids collected in 1899-1901, by various Russian zoologists, mostly by N. Mikhalovskii, during the Swedish-Russian Expedition for Measurement of an Arc of Meridian on Spitsbergen, with synonymy, critical notes, list of localities and data on total distribution; an additional list of stations with brief data on hydroid fauna; bibliography (24 items).

**Copy seen:** DLC; MH-Z.

**RYLOV, W.,** see Järnefelt, H., & W. Rylov. Über *Acanthodiptomus tibetanus*. 1935. No. 22916.

**25747. RYSELIN, VERNER.** Joki-kulta Suomen Lapissa ja sen hyödyksikäyttö. (Teknillinen aikakauslehti, 1925. v. 12, no. 5-6, p. 272-76, tables) **Title tr.:** Utilizing the river gold in Finnish Lapland.

An attempt to determine if it would be profitable and feasible to introduce heavy machinery into the Lapland area to work gold-bearing soil and gravel.

**Copy seen:** DLC.

**RYSER, FRED A.,** see Strecker, R. L., & others. Notes mammals Alaska. 1952. No. 26500.

**RYSKIN, R. M.,** see Postnov, A. D., & R. M. Ryskin. Kurortnoe lechenie otmorozhenii. 1941. No. 25263.

**25748. RYSS, S. M.** Tsynga. (In: Opyt sovetskoi meditsiny v Velikoi Otechestvennoi Volne 1941-1945 gg. Moskva, Medgiz, 1951. t. 28, glava 2, Avitaminozy, p. 134-52, table) **Titles tr.:** Scurvy. (In: Practice of Soviet medicine during the Great Patriotic War 1941-1945, chapter 2, Avitaminosis).

Contains an extensive study of the problem with sections on: scurvy in wars, including World War II; seasonal occurrence; etiology and pathogenesis; classification; clinical forms and symptomatology (scurvy in patients lacking alimentary dystrophy and scurvy caused by faulty nutrition); complications; diagnosis; prophylaxis and therapy; military handling of cases.

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**25749. RYZHENKO, M. I.** Lichinki i mal'ki murmanskoj sel'di. (In: Sbornik

N. M. Knipovicha, 1939. p. 394-410, illus., tables 1-3, text maps) **Title tr.:** The larvae and fry of the Murman herring.

Contains a biological study based on material collected in western part of Barents Sea (Motovski and Kola Bays) and the adjoining part of the Norwegian Sea (Varanger Fjord - Lofoten Islands). Data are presented on monthly distribution and dimensions of the herring larvae and on the influence of coastal currents upon their migrations (see tables 1-3). Summary in English.

**Copy seen:** MH-Z.

**RYZHIKOV, K. M.,** see Pod'fapol'skaia, V. P., & others. Rabota 265-I S. gel'mint. eksped. 1947. 1951. No. 25129.

**SIPRE,** see U. S. Army. Corps of Engineers. Snow, Ice, Permafrost Research Establishment.

**25750. SAALAS, UUNIO, 1882-** . Einige Erörterungen über *Agabus gelidus* U. Sahlb. (Notulae entomologicae, 1930. v. 10, no. 1, p. 22-25, illus.) **Title tr.:** Some explanations on *Agabus gelidus* U. Sahlb.

Contains a comparative study of two northern beetles, *A. gelidus* (Sydvaranger in Norway, Petsamo in Finland and Kola Peninsula), and *A. dubiosus* collected by B. Poppius in the Verkhojansk region, eastern Siberia (64° N.).

**Copy seen:** DLC; MH-Z.

**25751. SAALAS, UUNIO, 1882-** . Die Fichtenkäfer Finnlands. Studien über die Entwicklungsstadien, Lebensweise und geographische Verbreitung der an *Picea excelsa* Link. lebenden Coleopteren nebst einer Larvenbestimmungstabelle, I. Helsinki, 1917. xx, 547 p., 7 plates, illus., fold. map, tables. (Suomalainen tiedeakatemia. Annales Academiae scientiarum fennicae, A8:1) **Title tr.:** The spruce beetles of Finland. Studies on the developmental stages, life and geographic distribution of Coleoptera living on *Picea excelsa*, Link., with a key for the identification of larvae, I.

Contains the general part and the first section of the special part of an extensive monograph on this beetle common to northern Eurasia and America:—A. General part: introduction; number of species, known larvae and pupae; developmental stages in which the beetles appear on the spruce trees; season-duration of the larval, pupal and imago stages, life span of generations; food; food damage;

various biocenoses; economic significance; the occurrence of "spruce beetles" on various flowers and otherwise than on trees; geographical distribution. B. Special part 1 (p. 277-528) contains descriptions of over 100 species belonging to 14 families. Bibliography (about 250 items).

**Copy seen:** DLC.

**25752. SAALAS, UUNIO, 1882-** . Die Fichtenkäfer Finnlands. Studien über die Entwicklungsstadien, Lebensweise und geographische Verbreitung der an *Picea excelsa* Link. lebenden Coleopteren nebst einer Larvenbestimmungstabelle, II. Helsinki, 1923. x, 746 p., 28 plates (321 illus.). (Suomalainen tiedeakatemia. Annales Academiae scientiarum fennicae, A22:1) **Title tr.:** The spruce beetles of Finland. Studies on the developmental stages, life and geographic distribution of Coleoptera living on *Picea excelsa* Link. with a key for determination of larvae, II.

**Contains** (as a continuation of vol. 1, published in 1917, q. v.) B. Special part 2 (p. 1-636) giving descriptions of more than 200 species belonging to 29 families; key to identification of larvae belonging to 34 families. Bibliography (about 75 items supplemental to vol. 1).

**Copy seen:** DLC.

**25753. SAALAS, UUNIO, 1882-** . Karanakuoriaisista ja niiden aiheuttamista vahingoista Suomen metsissä. Helsinki, 1919. viii, 415, 66 illus. on 13 plates, 2 maps (incl. 1 fold), tables. (Acta forestalia fennica, v. 10) **Title tr.:** Bark beetles and the damage caused by them in the forests of Finland.

Outline of the literature (since 1700), theories, and history of entomology of bark beetles, including (p. 24-25) the Finnish literature; damage: observational data on their numbers, and damage in 25 specified forest areas; details on 52 species of these beetles, types of damage and causes of their swarming. Summary in German, p. 377-409, and Finnish-German glossary.

**Copy seen:** DLC.

**25754. SAALAS, UUNIO, 1882-** . Suomalaisen miesten Itä-Karjalassa ja Kuolan Lapissa suorittamasta hyönteistieteellisestä tutkimustyöstä. (Suomen hyönteistieteellinen aikakauskirja, 1942. 8:2, p. 167-81, illus.) **Title tr.:** Entomological studies by Finnish men in eastern Karelia and Kola Lapland.

**Contains** historical summary (1861-1931) of Finnish entomological work in Kola and Karelia, (collecting areas indi-

cated on map) by Inberg, Enwald, Sahlgren, Edgren, Palmén, Levander, Linna-niemi, Frey, Hellén, Poppius, and Kiv-linna. Summary in German.

**Copy seen:** DLC.

**25755. SAARI, EINO, 1894-** . Kulo-ista; etupäässä suomen valtionmetsä silmällä pitäen. Helsinki, 1923. 155 p., illus., map, tables, diagrs. (Acta forestalia fennica, 26:5) **Title tr.:** Forest fires in Finland, with special reference to state forests.

The statistics are based on data collected by the government's Board of Forestry (since 1865) and two private fire insurance companies (since about 1914). Map shows annual average area burned in each parish including some regions above the Arctic Circle. Data are given on causes, occurrence, number, extent, value of damage, month, locality and effect of weather conditions on forest fires in the various sections of Finland. Summary in English, p. 143-55.

**Copy seen:** DLC.

**25756. SAARI, EINO, 1894-** . Saha-puun kantohinta ja menekki Suomen valtionmetsissä vv. 1913-1922. Helsinki, 1923. 124 p., plate (fold.) illus., maps, tables. (Acta forestalia fennica, 27:2) **Title tr.:** The transportation costs and sale of lumber from Finnish state forests, 1913-1922.

**Contains** detailed statistical data on costs and selling prices on lumber produced from 13 forest areas of Finland, including four in the North. The data are organized throughout for comparison of these northern with the other areas. Summary in German, p. 111-20.

**Copy seen:** DLC.

**SAARI, EINO, 1894-** , see also Heikin-heimo, O., & E. Saari. Suomen metsät ja metsätalous. 1922. No. 22493.

**25757. SAARINEN, ARVI ALEK-SANDER, 1906-1950.** A check-list of sawflies of eastern Fennoscandia. (Suomen hyönteistieteellinen aikakauskirja, 1950. 16, no. 2, p. 71-82)

**Précis** of investigations and literature, followed by simple systematic list (with all additions since 1935) of 115 genera, 588 species and 110 varieties, an increase of about 180 species since 1935. Includes reference to some original descriptions. Appended is record of the literature since 1935.

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**25758. SAARINEN, ARVI ALEK-SANDER, 1906-1950.** *Tenthredo (Allantus) perkinsi* Morice, eine neue Blattwespe (Hym., Symphyta) aus Finnland und ihre Aberration *lateriplaga* n. ab. (Notulae entomologicae, 1947. v. 27, no. 1, p. 13-15, illus.) **Title tr.:** *Tenthredo (Allantus) perkinsi* Morice, a new saw fly (Hym. Symphyta) from Finland and its aberration *lateriplaga* n. ab.

Contains a comparative taxonomic study of two saw flies, *Tenthredo perkinsi* and *T. arcuata* (male and female specimens); the first species, new to the fauna of Finland, is spreading to Rovaniemi, where it becomes rare; the new aberration is native to more southerly regions.

**Copy seen:** DLC; MH-Z.

**25759. SAARINEN, E. K. E.** Metsäojien syöpmisestä. Helsinki, 1935. 30 p., 2 illus., plates, diags. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 20:7) **Title tr.:** Erosion of forest drainage ditches.

Water content in snow cover determines size of spring flood; floods contribute to the process of erosion. On the basis of work in nine experimental locations, including the Siberian larch forest at Raivola, actions of various types of soil to the wearing process of water and the effects of excessive erosion of banks of the ditches. Bibliography (10 items). Summary in German.

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**25760. SAARIVIRTA, NILO.** Selvitystä Pohjois-Suomen vesivoiman käytöstä. (Teknillinen aikakauslehti, 1950. v. 40, no. 7, p. 135-36; no. 10, p. 208., illus.) **Title tr.:** The exploitation of the water power of northern Finland.

"The article analyses the reasons why water power from northern Finland should be transmitted to the southern parts of the country and examines the expenditure involved. This transmission is not only found to be necessary but also profitable, and sufficient energy would still remain in Northern Finland for local use."—Author's abstract. Author's views are controverted by P. Kaitera, q. v.

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**25761. SAARNIJOKI, SAKARI.** *Larix decidua x sibirica*, ein neuer Lärchenbastard. Helsinki, 1942. 30 p., illus., tables. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisuja, 31:1) **Title tr.:** *Larix decidua x sibirica*, a new hybrid of the larch.

Description of the parent stock and the new cross breed. Bibliography (30 items). Summary in Finnish.

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**25762. SAASTAMOINEN, SAARA.** Mesimarja (*Rubus arcticus* L.) Suomessa. (Suomalainen eläin- ja kasvitieteellinen seura vanamo. Julkaisuja, 1930. 12:2, p. 355-14, tables, maps, diags.) **Title tr.:** The northern raspberry *Rubus arcticus* L. in Finland.

Contains data on the distribution of this plant throughout the Northern Hemisphere, and its occurrence in Finland (including some northerly localities); characterization of places where it grows wild and semi-cultivated; new plants; factors affecting its spread and berry production; possibilities for its cultivation. Bibliography (120 items). Summary in German, p. 408-414.

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**25763. SACHOT, JOSEPH.** Jusqu'au dernier "mangeur-decru!" Paris, Spes [1944]. 291 p., illus., ports., fold. col. map. **Title tr.:** To the last "raw meat eater!"

Chronicle in popular style of a half-century of Oblate missionary work among Canadian Eskimos. Outline of Eskimo life and customs; clothing, dogs and sledges, dwellings, hunting, social life, folk lore, etc.; sketches of several Oblate missionaries (in particular Bishop Turquetil), with tribute to their activities in the Barren Grounds west from Hudson Bay, and the Mackenzie delta region.

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**25764. SADHU, DULAL P., and B. L. TRUSCOTT.** Hypervitaminosis A and the distribution of body iodine. (Endocrinology, Aug. 1948. v. 43, p. 120-23)

Contains a report on experiments with adult male rats, receiving large oral doses of vitamin A; the hypervitaminosis thus caused, was accompanied by a decrease of protein-bound iodine in the liver and thyroid and by an increase of it in the serum, the pituitary and the skeletal muscle. A possible explanation of the process is offered. Bibliography (16 items).

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**25765. SADIKOV, P.** Proshloe Belomorsko-Baltiiskogo vodnogo puti. (Karelo-Murmanskii kraï, 1933. v. 11, no. 5-6, p. 34-36) **Title tr.:** White Sea-Baltic waterways of the past.

Contains an account of the early econ-

omy of the Karelo-Finnish area and of the attempts to build a waterway across it, beginning with Peter the Great.

*Copy seen:* DLC.

**25766. SÆLAN, ANDERS THIDOLF, 1834-1921.** *Ofversigt af Finlands botaniska litteratur.* (Societas pro fauna et flora fennica. Notiser ur förhandlingar, 1867. Häft. 7 (ny serie 4) p. 83-121) *Title tr.:* A survey of botanical literature of Finland.

*Contains* a bibliography of 160 works published in Finland, and another list of 116 papers by Finnish authors published elsewhere and dealing with the botany of Finland and other countries; includes some works concerning northern regions of Finland.

*Copy seen:* MH-Z.

**25767. SÆLEN, ODD HENRIK.** The hydrography of some fjords in northern Norway; Balsfjord, Ulfsfjord, Grøtsund, Vengsøfjord and Malangen. Bergen, J. Grieg, 1950. 102 p., 9 plates (diags.) double map. (Tromsø, Norway. Museum. Årshefter, 1947. v. 70, nr. 1. Naturhistorisk avd. no. 38)

Discussion of temperature, salinity, density, and oxygen relationships, the water masses and movements of five water bodies between 69°15'-70°15' N., based on observations made nine to twelve times a year in Malangen, Balsfjord and Vengsøfjord during 1931-35, in Grøtsund during 1932-35, and in Ulfsfjord during 1930-35; with concluding remarks concerning effects of oceanic waters on the variously situated fjords, summer and winter conditions and effects, and (in brief) the turbulence and vertical convection. Bibliography (7 items).

*Copy seen:* DGS.

**SAFFORD, FRANK K.,** *see* Allen, F. M., & F. K. Safford. Experiments hypothermia burns & frostbite. 1950. No. 20140.

**25768. SAGER, R. C.** Aerial analysis of permanently frozen ground. (Photogrammetric engineering, Sept. 1951. v. 17, p. 551-71, illus., map, diags.)

"Photographs of permafrost terrain features, particularly polygon formations, are analyzed and interpreted. Soil polygons occur in arctic and many sub-arctic areas having sufficient soil. They are visible at scales of 1/50,000 and larger and have diameters ranging from a few to over 600 ft. The number of sides of the level polygon is indicative of the climate, with fewer sides and larger areas in the

north than in the south. A rectangular polygon indicates a sloping terrain; a square polygon suggests areas modified by a marine climate. The nature of the perimetric trough indicates trafficability and ice and moisture content of the soil. The core implies the soil type. Relic polygons, distinguishable through a dryer type of sub-arctic vegetation, indicates a lowering of the permafrost table and replacement of the ice by silt, clay, and gravel. The *channel* type and the *depressed center* type, the two most common in the Arctic, are described in detail. Related terrain features most easily discernible from aerial photographs, including peat mounds ["palsa"], cave-in lakes, drunken forests, soil creep, pingos, rectangular and beaded streams, vegetation, thermokarst, dry valleys, asymmetric valleys, tilted sand terraces, and minor superficial folds are briefly discussed."—SIPRE. Bibliographic footnotes (14 items).

*Copy seen:* DLC.

**25769. SAHAMA, THURE GEORG, 1910- .** On the chemistry of the mineral titanite. (Finland. Geologiska kommission. Bulletin, 1946. no. 138, p. 88-120)

Results of new complete analyses of titanite minerals with additional optical data, including three from Kola Peninsula (p. 99-100) showing them poor in rare earths, exceedingly rich in niobium and strontium, and comparatively high in sodium.

*Copy seen:* DGS.

**25770. SAHAMA, THURE GEORG, 1910- .** Die Regelung von Quarz und Glimmer in den Gesteinen der finnisch-lappländischen Granulit-formation. Helsinki, 1936. 113 p., 3 plates (incl. maps) diags. (Finland. Geologiska kommission. Bulletin, 113) *Title tr.:* The orientation of quartz and mica in the rocks of the Finnish-Lapland granulite formation.

*Contains* a study of the correlation of orientation of quartz and mica with structural features: a petrological survey of the rocks of the granulite formation; rotation data of samples originating from various localities of the area studied; lattice arrangement in quartz: types observed in the granulite formation, its symmetry and significance; orientation of mica; clefts and grooves; the structure of rocks in the granulite formation; tectonic data on quartz orientation. Bibliography (100 items).

*Copy seen:* DLC.

**25771. SAHAMA, THURE GEORG, 1910-** . Spurenelemente der Gesteine im südlichen Finnisch-Lapland. Helsinki, 1945. 86 p., map, tables, diagrs. (Finland. Geologiska kommission. Bulletin, v. 23, no. 135) **Title tr.:** Trace elements in the rocks of southern Finnish Lapland.

Contains a geological review of the area; outline of spectrographic methods applied; results of study (arranged in tables); discussion of the significance of the present investigation for general geochemistry (titan, zirconium, manganese, barium, rare earths, boron, chromium, etc.) Bibliography (60 items).

**Copy seen:** DLC.

**25772. SAHAMA, THURE GEORG, 1910-** . Struktur und Bewegungen in der Granulitformation des Finnischen Laplands. (Finland. Geologiska kommission. Bulletin, 1933. no. 101, p. 82-90, 1 fold. plate, diagrs.) **Title tr.:** Structure and movements in the granulite formation of Finnish Lapland.

Following an introduction on petrography of the formation, the author gives an account of its structural and tectonic aspects.

**Copy seen:** DLC.

**SAHAMA, THURE GEORG, 1910-** , see also Mikkola, E., & T. G. Sahama. Region SW granulite series. 1936. No. 24337.

**25773. SAHLBERG, JOHN REINHOLD, 1845-1920.** Catalogus praecursorius Coleopterorum in valle fluminis. Petschora collectorum. (Russkoe entomologicheskoe obshchestvo, St. Petersburg. Trudy (Horae), 1898, pub. 1899. t. 32, no. 3-4, p. 336-44) **Title tr.:** A preliminary catalogue of beetles collected in the valley of Pechora River.

Contains tabulated data on the geographic distribution of 298 species of beetles, collected by O. Kihlman (i. e. Kairamo) in Pechora River region of Arkhangel'sk province, in other northern regions including: northern Norway, Finland, Kola Peninsula and Siberia. Three species, *Philonthus raboti*, *Corymbites carinatus* and *Haltica engströmi* are cited as new but not described.

**Copy seen:** MH-Z.

**25774. SAHLBERG, JOHN REINHOLD, 1845-1920.** Coleoptera fennica nova, I-II. (Notulae entomologicae, 1921. Årg. 1, häft. 1, p. 1-3; (II) häft.

2, p. 33-37) **Title tr.:** New Coleoptera of Finland, I-II.

Contains Latin diagnoses of eight new species of Coleoptera from various regions of Finland and Kola Peninsula, including *Hydroporus amplexus* from Russian Lapland, *H. obscuricornis* found in Inari Lappmark and *Tropiphorus borealis* native to Kola Peninsula.

**Copy seen:** DLC; MH-Z.

**25775. SAHLBERG, JOHN REINHOLD, 1845-1920.** Coleoptera mediterranea et rosso-asiatica nova et minus cognita, maxima ex parte itineribus annis 1895-1896 et 1898-1899 collecta, II. Helsingfors, 1903. 40 p. (Översigt af förhandlingar, 1902-1903. Bd. 45, no. 10) **Title tr.:** New and less known Mediterranean and Russo-Asiatic Coleoptera, mostly collected on journeys in 1895-1896 and 1898-1899, II.

Contains a description of additional 31 forms of beetles, mostly new species. Eight of them are reported from arctic Siberia, mostly from the lower Yenisey and Ob' valleys. Part I of this study, (published in this journal Bd. 50, no. 7, 1908) deals with forms from the Mediterranean area exclusively.

**Copy seen:** DLC.

**25776. SAHLBERG, JOHN REINHOLD, 1845-1920.** Staphylinidae in Novaja Semlja a G. Jacobson et in insulis Novo-Sibiricis a Dr. A. Bunge et Bar. Ed. Toll collectae. (Akademiā nauk SSSR. Zoologicheskii muzei. Exhégodnik, 1897. t. 2, no. 3, p. 365-68) **Title tr.:** Staphylinidae collected by G. Jakobson on Novaya Zemlya and by Dr. A. Bunge and Baron Ed. Toll on the New Siberian Islands.

Contains a Latin diagnosis of a necrophagous beetle, *Phyllodrepa polaris* n. sp. collected by G. Jakobson on Novaya Zemlya and critical notes on one more species and one variety from the same island and three staphylinids from the New Siberian Islands.

**Copy seen:** DLC; MH-Z.

**25777. SAHLBERG, JOHN REINHOLD, 1845-1920.** Till kännedom om *Haltica engströmi* och dess biologi. (Entomologisk tidskrift, 1913. Årg. 34, häft. 2-4, p. 261-70, plate 4) **Title tr.:** A contribution to the knowledge of *Haltica engströmi* and its biology.

Contains Latin description of and critical notes on a beetle, *Haltica engströmi*,

native to Arkhangel'sk province (Pechora and Mezen River) and central Finland, with additional data on four color varieties and larvae.

**Copy seen:** DLC; MH-A.

**SAHLSTEIN, T. G.,** see **SAHAMA, THURE GEORG, 1910-**

**SAIÄNSKIÏ, L.,** see **Polîänovskiï, M. L., & L. Saiänskiï.** Sredi trekh moreï; po Kamchatke. 1931. No. 25183.

**25778. SAILER, REECE IVAN, 1915-**, and **S. E. LIENK.** Blow flies (Calliphoridae) in Alaska. (Canadian entomologist, Aug. 1951. v. 83, p. 208-211)

Based on studies and materials of the Alaska Insect Project, 1948, when eight species were collected near Fairbanks and Anchorage. List is given of the 18 species known to occur in Alaska, with distribution for each. Bibliography (3 items).

**Copy seen:** DSI-M.

**25779. SAILER, REECE IVAN, 1915-**. Concerning a recent paper on the insects and related arthropods of arctic Alaska. (Ecology, Oct. 1951. v. 32, no. 4, p. 729-30)

Contains a comment on Neal A. Weber's *A survey of the insects and related arthropods of arctic Alaska*, part 1, q. v. The inclusion of non-Alaskan material, the omission of recorded material and omissions in general are criticized. It is suggested that only the lists of insects and other arthropods actually collected by Weber are acceptable.

**Copy seen:** CaMAI.

**25780. SAILER, REECE IVAN, 1915-**. A thermophobic insect. (Science, Dec. 22, 1950. New ser. v. 112, p. 743)

Record of stoneflies (*Nemoura columbiana*) thriving and active at subfreezing temperature near Anchorage, Alaska, Apr. 1948.

**Copy seen:** DGS.

**25781. ST. AMAND, PIERRE, 1920-**, and **H. CRONIN.** Atmospheric refraction at College, Alaska during the winter, 1947-1948. (American Geophysical Union. Transactions, Apr. 1950. v. 31, p. 161-64, illus., tables)

"Systematic observations were made at College (near Fairbanks), Alaska, to determine the corrections necessary for refraction tables when the solar angle is low. During the winter of 1947-1948 it was found that the apparent altitude varied from +80" to -4" for 1° to 12° elevation. Results presented in tabular

and graphic form. Relation to temperature stratification not yet determined. Photograph shows mirage on mountain over 80 miles distant across Tanana Valley."—*Meteorological abstracts and bibliography*, July 1950. v. 1, no. 7, p. 443.

**Copy seen:** DLC; DWB.

**25782. SAKHAROV, M. I., and V. D. IÄNKOVSKIÏ.** O vozmozhnosti primeniäia antitrombina (geparina) dlia radikal'nogo lecheniia posledstviï otmozheniia. (Khirurgiia, 1946. god 16, no. 7, p. 18-21) **Title tr.:** On the possibility of using antithrombin (heparin) in radical therapy of frostbite sequels.

Contains an account of earlier work of V. A. Bogdanov with antithrombins in frostbite of rabbits, followed by a detailed account of four cases of severe frostbite; two of them, treated subcutaneously with antithrombin, showed dubious effect; two others, with second and third degree frostbite, given antithrombin intravenously about 24 hours after the accident showed improvement in circulation of the damaged area; subjective improvement and hastening of recovery. In all four cases no adverse effects followed the administration of relatively large amounts of antithrombin.

**Copy seen:** DLC.

**25783. SAKHAROV, M. I.** Vliänie lesnykh fitotsenozov na snegovoi pokrov. (Lesnoe khoziaistvo, May 1939. no. 5, p. 62-68, tables, diagrs.) **Title tr.:** The influence of forest phytocoenoses on the snow cover.

Contains a study of the effect of the forest's plant associations (phytocoenoses) on the accumulation, retention and melting of snow. In particular the type and the taxonomic character of the forest, the undergrowth grass cover and type of soil are studied in relation to these and some other aspects of the snow cover.

**Copy seen:** DLC.

**25784. SAKS, V. N.** Nekotorye dannye o vechnoi merzlotë v nizov'iakh Eniseia. (Problemy Arktiki, 1940. no. 1, p. 62-79, diagrs.) **Title tr.:** Some data on permafrost in the lower part of the Yenisey River.

"The permafrost distribution in the vicinity of Ust'-Yenisey port was studied through a literature survey and by field investigations in conjunction with a search for oil. Frost, peat, and other types of mounds are described in terms of the

mechanism of formation, distribution patterns, and the periods of greatest activity. Compact crystalline ice at a depth of 25 m. was found in drill holes in the Ust' Port valley. Several layers of ice lenses ranging to 4 m. in thickness were discovered at depths between 28 to 43 m. An ice layer, 15 m. thick and 2 km. long, was found to the NE of Ust' Port. Permafrost was present in test hole No. 3 on the left bank of Yenisey at a depth of 270 m., with temperatures varying between  $-5^{\circ}$  and  $-6^{\circ}$  C. on the upper permafrost horizons. Electric resistivity methods indicated permafrost layers from 400 to 500 m. thick along the Yenisey plateau, and from 250 to 300 m. in thickness on well drained terraces. Calculations show that the Yenisey permafrost is aggradating at a rate of 100 m/3000 to 4000 years."—SIPRE. Bibliography (10 items).

This item was previously listed in *Arctic Bibliography*, No. 15199.

**Copy seen:** DLC.

**25785. SAKS, V. N.** O mezozoiskoi istorii v bassejnakh Kolymy i Indigirki. (Sovetskaja geologija, Sept. 1940. no. 9, p. 79-91, maps) **Title tr.:** On Mesozoic history in the basins of the Kolyma and Indigirka.

Contains an account of studies conducted in 1936-37 on the middle course of the Kolyma and Indigirka and the surrounding plains, where Mesozoic deposits are most fully represented. The Upper Paleozoic, the Triassic, Jurassic and Cretaceous formations are dealt with in detail (deposits, fossils, tectonics, etc.). Seven phases, punctured by marine-transgressions, are claimed to have occurred during the Mesozoic epoch in the Chukotsko-Verkhoyansk geosyncline. These marine transgressions were limited and all came from the North, suggesting that already in the early Paleozoic a marine basin existed in the area of the present Arctic Ocean. Bibliography (13 items).

**Copy seen:** DLC.

**25786. SAKS, V. N.** On the problem of young tectonic movements in the north of Siberia. (Akademija nauk SSSR. Comptes rendus (Doklady), 1945. nouv. ser., v. 47, no. 8, p. 574-77)

"Study of the Taimyr depression [in the Pyasina River and Lake area about  $69^{\circ}$  N.  $87^{\circ}$  E.], including stratigraphic, tectonic and geophysical investigations, shows that it is a gently sloping trough bordered by faults. Mountain masses

along the borders are still being elevated as are salt domes from the basin floor."—Geological Society of America, *Bibliography and index of geology*, 1945-46. v. 11, p. 284.

**Copy seen:** DLC.

**SAKS, V. N., see also Lazurkin, V. M., & V. N. Saks.** Novoe v geologii Arktiki. 1936. No. 23703.

**25787. SALKIO, VEIKKO.** Havaintoja Heinäsaarten linnustosta vuosina 1936-39. (Ornis fennica, 1942. 19:2, p. 61-63. tables) **Title tr.:** Observations on the birds at Heinasaari during the years 1936-39.

Data on the occurrence of various species on these islands (about  $69^{\circ}50'$  N.  $31^{\circ}35'$  E.) off the Petsamo coast, noting eight not previously attributed to the locality.

**Copy seen:** DLC.

**25788. SALLER, H.** Der grosse Nordmeerweg um Sibirien. (Zeitschrift für Geopolitik, Feb. 1935. Jahrg. 12, p. 89-97, map) **Title tr.:** The great northern sea route around Siberia.

General, informative survey of the shipping route, new ports, river trade routes, potential resources, and level of development of the Russian area under direction of the Northern Sea Route Administration.

**Copy seen:** DLC.

**25789. SALMINEN, ANTTI.** Suomen todellisen rantaviivan pituudesta ja kivilajijäineksen kulumisesta rannikolla. (Terra, 1936. 48:2, p. 49-59, map) **Title tr.:** On the actual length of the shoreline in Finland and on the wearing on the beaches.

Author sets forth results of some investigations on the wearing of rock material on beaches; calculates wearing of stones per 100 speed-hours of on-shore winds, and determines diminution in weight of stones on beaches during six ice-free months. As the total amount of wearing depends on length of shore line, author calculates (from maps) length of seacoast and lakeshore lines at ten localities (including Petsamo) and indicates total length of shoreline to be four times circumference of the globe. He suggests that younger Finnish clays originated from wearing of rock material on shores. Summary in English. **Copy seen:** DLC.

**25790. SALOMONSEN, FINN, 1909- .** The Atlantic Aleidae; the seasonal and geographical variation of the auks inhabiting the Atlantic Ocean and the adjacent water. Göteborg, Erlanders,

1944. 138 p. illus., (26 fig.). (Gothenburg K. Vetenskaps- och vitterhets-samhälle. Handlingar. Sjätte följd. Ser. B. Bd. 3, no. 5. (Göteborgs Musei zoologiska avdelning. 108))

Contains a study of geographical variation of the Atlantic Alcidae, based on Scandinavian bird collections, with a systematic list of 26 species of auks, with synonyms, list of specimens, localities, dimensions, notes on moult and sequence of plumages and data on geographic distribution. Includes some high arctic species, native to practically all regions of Europe, Asia and North America; bibliography (162 items).

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**25791. SALOMONSEN, FINN, 1909-** . Blisgaasen (*Anser albifrons* (Scop.)) og dens slægninge. (Fra Zoologisk Museum, 10). (Dansk ornithologisk forening. Tidsskrift, 1948. Årg. 42, hefte 2, p. 102-108) **Title tr.:** The white-fronted goose (*Anser albifrons* (Scop.)) and its allies. (From Zoological Museum, 10.)

Contains a study of the geographical variation and distribution of the white-fronted goose, based on an investigation of the skins in various European museums (London, Copenhagen) and on the literature. Includes data on *Anser albifrons albifrons* (Alaska and Yukon), *A. a. flavirostris* (West Greenland) and *A. a. gambelli* (Northwest Territories, eastward to Melville Peninsula). Summary in English.

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**25792. SALOMONSEN, FINN, 1909-** . De sibirske snespurve (*Plectrophenax nivalis* (L.)) (Fra Zoologisk Museum, 7). Dansk ornithologisk forening. Tidsskrift, 1947. Årg. 41, hefte 2, p. 136-40, plate 4) **Title tr.:** On the Siberian snow bunting. (From Zoological Museum, 7).

Contains a description of *Plectrophenax nivalis pallidior* subsp. nov., a new form of Siberian snow bunting, with a list of its localities, including arctic Siberia, and northeastern European Russian (Pechora region and Ural Mts.). Breeding areas are in Spitsbergen, Franz Josef Land, Greenland and arctic America (except Alaska). Summary in English.

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**25793. SALOMONSEN, FINN, 1909-** . The distribution of birds and the recent climatic change in the North Atlantic area. (Dansk ornithologisk forening. Tidsskrift, Juni 1948. Aarg. 42, p. 85-99)

Brief description of recent changes in distribution and occurrence of regular breeders (Nidiates) and birds which occur irregularly (Accidates) in Greenland (primarily West Greenland), Iceland, The Faroes and Denmark. Bibliography (22 items). Summary in Danish.

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**25794. SALOMONSEN, FINN, 1909-** . Femte foreløbige liste over genfundne grønlandske ringfugle. (Fra Zoologisk Museum, 16). (Dansk ornithologisk forening. Tidsskrift, 1952. Årg. 46, hefte 3, p. 110-17) **Title tr.:** Fifth preliminary list of recoveries of birds ringed in Greenland. (From Zoological Museum, 16).

Contains record of recoveries of 54 birds ringed in Greenland and notes on eight more interesting cases giving new data on migration of some species. For the four previous lists, see item below.

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**25795. SALOMONSEN, FINN, 1909-** . Første-fjerde foreløbige liste over genfundne grønlandske ringfugle. (First [to] fourth preliminary list[s] of recoveries of birds ringed in Greenland.) (Dansk ornithologisk forening. Tidsskrift, 1947-1950. Aarg. 41, p. 141-43; Aarg. 42, p. 100-108; Aarg. 43, p. 251-55; Aarg. 44, p. 168-70)

Records of times and places abroad where birds ringed in Greenland have been taken, with some discussion of significance of certain recoveries for knowledge of migration routes, wintering locations, etc. Summaries in English.

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**25796. SALOMONSEN, FINN, 1909-** . Fuglerejsen til Grønland 1946. (Grønlandsposten, Feb. 1947. Aarg. 6, no. 1, p. 14-16, illus.) **Title tr.:** Ornithological trip to Greenland 1946.

General notes on birds studies and banding along the west coast of Greenland, and on the author's activities during the summer of 1946.

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**25797. SALOMONSEN, FINN, 1909-** . Genopdagelsen af kortnaebet malleumuk (*Fulmarus glacialis minor* (Kjaerbølling)). (Dansk ornithologisk forening. Tidsskrift, 1950. v. 44, p. 100-105) **Title tr.:** Rediscovery of the short-billed malleumuk, *Fulmarus glacialis minor* (Kjaerbølling).

Contains a study of systematics of the

arctic fulmar, based on material (the skulls) brought home by the Fifth Thule Expedition, 1921-24, from Admiralty Inlet in north Baffin Island, with measurements of skulls, a comparison with material from other regions (The Faroes and Iceland) and data on distribution (Baffin Island, Greenland, and Spitsbergen). The specific name *minor* under which it was originally described by Kjaerbølling is reestablished by the author as a name of variety: *Fulmarus glacialis minor*. **Copy seen:** MH-Z.

**25798. SALOMONSEN, FINN, 1909-** . Den geografiske variation hos lille regnspove (*Numenius phaeopus* (L.)) i Europa. (Fra Zoologisk Museum, 7). (Dansk ornithologisk forening. Tidsskrift, 1947. Årg. 41, hefte 2, p. 143-45) **Title tr.:** The geographical variation in the European whimbrels (*Numenius phaeopus* (L.)). (From Zoological Museum, 7).

Contains a study of the variation in wing length of the European whimbrel, based on material in the Zoological Museum at Copenhagen, including some north Scandinavian and Greenland specimens (see table 1, p. 144). Summary in English. **Copy seen:** MH-Z.

**25799. SALOMONSEN, FINN, 1909-** . Grønlandsfugle: The birds of Greenland, with illustrations by Gitz-Johansen. Copenhagen, Ejnar Munksgaard, 1950-1951. 3 v.: 608 p., illus., 52 col. plates, fold map. Basic work, text in Danish and English.

Contains in pt. 1 (p. 1-158) brief introductory chapter on ornithological history and zoogeography of Greenland; systematic list (with available data on taxonomy, migrations, habitat preferences, food, plumage, behavior) covering loons, shearwaters, petrels, swans, ducks, geese, and cormorants. Pt. 2 (p. 159-348) continues systematic treatment, dealing with ptarmigan, plover, sandpipers, phalaropes, jaegers, gulls and terns. Pt. 3 (p. 349-608) concludes the systematic list with auks, hawks, owls, ravens, finches, buntings, pipits, etc. A nominal list of 224 birds occurring in Greenland as casual visitors only, is added, as well as a bibliography (about 600 items) and index of Latin, Danish, English and Eskimo bird names. Col. plates are reproductions of water-color paintings in a free interpretive style. Reviewed by T. M. Shortt in *Arctic*, Dec. 1951, v. 4, no. 3, p. 218-19, and Dec. 1952, v. 5, no. 4, p. 251.

**Copy seen:** DSI-M.

**25800. SALOMONSEN, FINN, 1909-** . En ny hjerpe (*Tetrastes bonasia* (L.)) fra Skandinavien. (Fra Zoologisk Museum, 8). (Dansk ornithologisk forening. Tidsskrift, 1947. Årg. 41, hefte 3, p. 221-24) **Title tr.:** A new hazelgrouse from Scandinavia. (From Zoological Museum, 8).

Contains a description of the bird, *Tetrastes bonasia griseonota* subsp. nov. from Arvidsjaur, Lapland, killed in Jan. 1929. Summary in English.

**Copy seen:** MH-Z.

**25801. SALOMONSEN, FINN, 1909-** . En ny race af fjældrype *Lagopus mutus* (Montin) fra Grønland. (Fra zoologisk Museum, XV). (Dansk ornithologisk forening. Tidsskrift, 1950. Årg. 44, hefte 4, p. 219-22) **Title tr.:** A new race of rock ptarmigan, *Lagopus mutus* (Montin) from Greenland. (From Zoological Museum, 15).

Contains a review of the geographical variation of the Greenland rock ptarmigan of which a new form *Lagopus mutus saturatus*, subsp. nov. is described, with data on Greenland distribution (north-western coast) and related forms. Summary in English. **Copy seen:** MH-Z.

**25802. SALOMONSEN, FINN, 1909-** . Ornithologiske studier i Nordskandinavien. (Dansk ornithologisk forening. Tidsskrift, 1927. Årg. 21, hæft. 3-4, p. 87-108) **Title tr.:** Ornithological studies in northern Scandinavia.

Contains a list of 84 species of birds collected or observed by the author during his trip to northern Scandinavia (through Swedish Lapland to Lofoten Islands, northern Norway), with some descriptive notes and data on habitat, abundance and distribution.

**Copy seen:** MH-Z.

**25803. SALONEN, EERO.** Pohjoissuunnan määrittämisestä. (Maanmittaus, 1932. v. 7, no. 1-2, p. 60-70, tables, diagrs.) **Title tr.:** On determining true north.

Contains description of a method of determining the azimuth from the digression times of the north star from 60° to 71° N. lat. in Finland. This method, it is claimed, requires less mathematical work and makes the determination with sufficient accuracy for use in cartography, topography and surveying.

**Copy seen:** DLC.

**SALT, D. J.**, see Baird, P. D., & D. J. Salt. Report exped. Snow Cornice. 1949. No. 20416.

**25804. SALT, R. W.** Time as a factor in the freezing of undercooled insects. (Canadian journal of research, Oct. 1950. v. 28, sect. D, p. 285-91)

"Undercooling points are shown to be unreliable as a measure of insect cold-hardiness. Insects held in an undercooled state freeze at irregular intervals, often over long periods of time. Freezing, which is fatal to most insects, is initiated by the formation of an ice-crystal nucleus, and the probability of such formation is dependent upon the extent of undercooling (temperature), coolhardiness (a complex resulting from previous treatment), and time."—From the author's abstract.

**Copy seen:** DGS.

**25805. SALTYSKII, M. I., and E. S. SAPRYGINA.** A method for determination of cold-resistance of winter cereals. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1940. Nouv. ser., v. 28, no. 6, p. 544-47, tables)

Description of a new experimental method enabling one to determine conveniently cold resistance and other agro-technical and physiological problems of winter cereals.

**Copy seen:** DLC.

**25806. SALTZMAN, PERCY P.** Operation Icecapade (March 2-3, 1950). [Toronto] 1950. p. 1, 13 numb. 1, plate (2 maps). (Royal Meteorological Society, Canadian Branch. Papers. v. 1, no. 3) Mimeographed.

Lively account of experience on this Canadian Dept. of Transport, Meteorological Division ice reconnaissance over James and Hudson Bays; with some notes on present-day knowledge of ice conditions in that region on the basis of reconnaissance flights of 1947-50.

**Copy seen:** CaMAI.

**SALVESEN, SIGBJÖRN**, see Boë, F., & others. Adrenocorticotrophic hormone in whale. 1951. No. 20757.

**25807. SAMBUK, FEODOSII VIKTOROVICH, 1900-** . Novye rasteniia v Pechorskoi flore. (Akademiia nauk SSSR. Izvestiia, seria 7, Otdelenie fiziko-matematicheskikh nauk, 1928, no. 1, p. 45-48, plates 1-3, text map) **Title tr.:** New plants of the Pechora River region.

Contains Latin and Russian diagnoses of *Euphorbia borodini* n. sp., *Pedicularis*

*palustris* var. *dispersa* and *Lychnis sibirica samojedorum* n. ssp., herbs collected in the valley of Pechora River (70°30' N.) and *L. sibirica jakutensis* n. ssp., native to the Kolyma region of Yakutia.

**Copy seen:** DLC; MH-Z.

**25808. SAMKO, K. P.** O nekotorykh interesnykh zhestkokrylykh (Coleoptera) Ob'-Irtyskoi doliny. (Entomologicheskoe obozrenie, 1938. t. 27, no. 3-4, p. 261-66) **Title tr.:** On some noteworthy beetles (Coleoptera) of Ob'-Irtysk valley.

Contains data on the geographic distribution of some beetles in the Ob'-Irtysk basin, including at least seven forms, native to northern regions of western Siberia (Berezov, Obdorsk, Sos'va River etc.) Summary in French.

**Copy seen:** MH-Z.

**25809. SAMOÏLOV, I. V.** Ust'ia rek. Moskva, Gos. izd-vo geog. liter., 1952. 525 p., illus. (132 figs.) **Title tr.:** Mouths of rivers.

A complex study of river mouths, with notes on the geological history of the mouth and data on delta formation, shore processes, hydrobiologic régime, climate, plankton and vegetation. The following arctic and sub-arctic rivers of U.S.S.R. are treated specifically (p. 287-322): Severnaya Dvina and Mezen', flowing into White Sea; Pechora (Barents Sea); Ob' and Yenisey (Kara Sea); Lena and Yana (Laptev Sea); Indigirka and Kolyma (East Siberian Sea); Kamchatka River (Bering Sea). The Yukon and Mackenzie River mouths are also dealt with (p. 475-80) and an extensive bibliography (283 items) appended.

**Copy seen:** MH-Z.

**25810. SAMOÏLOV, T. P.** Opyt razvedeniia plodovo-fagodnykh kul'tur na gornykh sklonakh Primor'ia. (Akademiia nauk SSSR. Dal'nevostochnyi filial. Vladivostok. Gornotaezhnaia stanitsiia. Trudy, 1946. t. 5, p. 55-130, tables) **Title tr.:** Experiment of cultivation of fruit-bearing crops on the mountain slopes of the Primorye.

Following a physical and meteorological account of the area, experiments are reported in acclimatization of plums, apples, pears, etc. This work of the Mountain-Taiga station, which is located near Vladivostok (43°40' N. lat.) is of considerable importance for development of agriculture in arctic and subarctic areas. Bibliography (44 items).

**Copy seen:** DLC.

**SAMOĬLOVICH, A. N.**, see Castrén, M. A. Pamfleti M. A. Kastrena. 1927. No. 21135.

**25811. SAMOĬLOVICH, RUDOL'F LAZAREVICH, 1881-** . Ekspeditsiia na Taymyr. (Mirovedenie, 1932. no. 5, p. 25-27, illus.) *Title tr.*: Expedition to Taymyr.

Summary of an expedition planned to go to Severnaya Zemlya and Taymyr Peninsula on the ice-breaker *Rusanov* under the author's command in 1932, to construct a radio station on the Taymyr.

*Copy seen:* DLC.

**25812. SAMOĬLOVICH, RUDOL'F LAZAREVICH, 1881-** , and others. Geologičeskii Arktiki. (International Geological Congress. 17th, Moscow and Leningrad, 1937. Tezisy dokladov, pub. 1937. p. 200-211) *Title tr.*: Geology of the Arctic.

Abstracts of papers read at a symposium.

*Contents tr.*: Samoilovich, R. L. Geological survey of the Soviet Arctic. p. 200-201.

Ermolaev, M. M. Geological map of the Soviet sector of the Arctic, p. 201-202.

Nalivkin, D. V. Paleozoic of the Arctic. p. 202.

Bodylevskii, V. I., and L. D. Kipari-sova. Mesozoic stratigraphy of the Soviet Arctic. p. 202-203.

Malakhov, A. A. Geology and tectonics of Timan. p. 203-204.

Urvantsev, N. N. Tectonics of the polar region between the rivers Yenisey and Lena. p. 204.

Obruchev, S. V. Tectonics of northeastern Asia. p. 205.

Sobolev, V. S. Magmatic epochs of the Yenisey-Lena region. p. 205-206.

Vakar, V. A. Magmatic cycles of northeastern Asia. p. 206-207.

Vlasenko, A. V. Origin of the albite diabase of Novaya Zemlya. p. 207.

Moldavantsev, E. P., and V. M. Sergievskii. Metallogeny of the western sector of the Soviet Arctic. p. 207-208.

Smirnov, S. S., and V. A. Tsaregradskii. Metallogeny of northeastern Asia. p. 208-209.

Nikolaev, I. G. Fuel resources of the Soviet Arctic. p. 209.

Shepard, F. P. Connection of polar icecaps with submerged valleys, p. 209-210.

Kalesnik, S. V., and N. B. Bykova.

Quaternary deposits of the Soviet Arctic. p. 210.

Ermolaev, M. M. Present glaciation in the Arctic. p. 210.

Klenova, M. V. Lithogenetic processes in polar seas. p. 211. *Copy seen:* DLC.

**25813. SAMSON, SAM, 1869-** . The Eskimo princess; a story of a million dollar gold discovery in the Cyrus Noble in Nome, Alaska, as told to Mignon Maynard Chisam by Sam Samson. Boston, Christopher Pub. House [1951]. 50 p.

An account of the life, internal organization and cooperation among the gold diggers, told around the story (1900-1906) of the man who made the first discovery of the third beach line on the Cyrus Noble Claim at Nome.

*Copy seen:* DLC.

**25814. SAMUELSSON, GUNNAR, 1885-1944.** *Carex dioeca*-Gruppen i den nordiska floran. (Acta florae Sueciae, 1921. Bd. 1, p. 217-44, plate 15, text maps) *Title tr.*: *Carex dioeca* group in northern flora.

Contains a systematic and geographic study of six northern sedges of *Carex dioeca* group, including five occurring in northern Scandinavia, Russia, Spitsbergen and East Greenland, with detailed lists of localities for each species; bibliography (32 items).

*Copy seen:* MH-A; NNBG.

**25815. SAMUELSSON, GUNNAR, 1885-1944.** Floristiska fragment, I-V. (Svensk botanisk tidskrift, 1919-1923. Bd. 13, p. 241-54; bd. 15, p. 96-108; bd. 16, p. 35-59, 206-220; bd. 17, p. 129-42) *Title tr.*: Floristic fragments 1-5.

Phytogeographic notices of a number of flowering plants, including records of a few in northern Sweden.

*File seen:* DA.

**25816. SAMUELSSON, GUNNAR, 1885-1944.** *Polygonum oxyspermum* Mey. et Bge. und *P. raii* Bab. ssp. *norvegicum* Sam. n. ssp. (Acta horti bergiani, 1931. Bd. 11, no. 3, p. 67-80, plates 1-2, text map)

Contains a comparative taxonomic study of two herbs, *Polygonum oxyspermum* and *P. raii*, the latter native to northern Norway (Finnmark); and a description of *P. raii* ssp. *norvegicum* n. ssp. occurring in northern Norway (Nordland, Tromsø, Finnmark) and Fin-

land (Petsamo, Lappmark), with data on Scandinavian and total distribution.

**Copy seen:** DLC; MH-A.

**25817. SANDAHL, OSKAR THEODOR.** Smårre meddelanden. (Entomologisk tidskrift, 1881, pub. 1882. Årg. 2, häft. 4, p. 209-215, 219-20) **Title tr.:** Brief notes.

*Contains a list of about 75 beetles, butterflies and moths with data on new localities, correction of previous records and other information received from various entomologists during the year; includes some species native to northern regions. Summary in French.*

**Copy seen:** DLC; MH-Z.

**SANDBERG, G.,** see Qvigstad, J. K., & G. Sandberg. Lappische Sprachproben. 1888. No. 25323.

**25818. SANDBERG, GEORG, 1842-1891.** Beobachtungen über Metamorphosen der arktischen Falter. (Berliner entomologische Zeitschrift, 1885. Bd. 29, Heft 2, p. 245-65) **Title tr.:** Observations on metamorphosis of arctic butterflies.

*Contains observations on larvae, pupae and imagines of 23 species of arctic butterflies, mostly native to northern Scandinavia, some occurring also in other arctic regions (Siberia, Labrador, etc.).*

**Copy seen:** MH-Z.

**25819. SANDBERG, GEORG, 1842-1891.** Fortsatte iagttagelser over arktiske sommerfugles metamorphoser. (Entomologisk tidskrift, 1884. Årg. 5, häft. 3, p. 139-44, 222) **Title tr.:** Continuing observations on the metamorphosis of arctic butterflies.

*Contains the results of the author's observations on metamorphosis of seven lepidoptera carried out in northern Norway. Summary in French.*

**Copy seen:** DLC; MH-Z.

**25820. SANDBERG, GEORG, 1842-1891.** Om en for Norges fauna og regio arctica ny Rhopalocer. (Entomologisk tidskrift, 1883. Årg. 4, häft. 3-4, p. 131-32) **Title tr.:** On one of the Rhopalocera new to the fauna of Norway and the arctic region.

*Contains critical notes on *Polyommatus helle* (Rhopalocera), a rare species of butterfly new to the fauna of Norway and arctic regions, found in Finnmark, Norway (70° N.). Summary in French.*

**Copy seen:** DLC; MH-Z.

**25821. SANDBERG, GEORG, 1842-1891.** Om en varietet af *Argynnis pales* S. V. (Entomologisk tidskrift, 1883. Årg. 4, häft. 3-4, p. 129-30, 224) **Title tr.:** On a variety of *Argynnis pales* S. V.

*Contains the description of *Argynnis pales inducta*, a new variety collected by the author on Servi-Suolo Island in the lake Vaggatemjære in Finnmark, Norway (69° N.) and endemic in this arctic region. Summary in French.*

**Copy seen:** DLC; MH-Z.

**25822. SANDBERG, GEORG, 1842-1891.** Supplement till Sydvarangers Lepidopterenfauna. (Entomologisk tidskrift, 1885. Årg. 6, häft. 4, p. 187-203, 221-24) **Title tr.:** Supplement to the Lepidoptera fauna of Sydvaranger.

*Contains a systematic list of 51 species of Macrolepidoptera and 31 of Microlepidoptera found in Sydvaranger, a description of the lepidopterous fauna of this northern Norwegian coastal region and comparison with those of adjoining regions. Summary in French.*

**Copy seen:** DLC; MH-Z.

**25823. SANDERMAN, LLEWELLYN ARTHUR, 1900- , and C. L. UTTERBACK.** Radium content of ocean bottom sediments from the Arctic Ocean, Bering Sea, Alaska Peninsula, and the coasts of southern Alaska and western Canada. (Journal of marine research, 1941. v. 4, p. 132-41, illus. 2 maps, tables)

*Tabular presentation of radium content in grams of radium per gram of dry material; on the maps are plotted localities in the waters from Point Barrow southward to (and including) the Inland Passage of Southeast Alaska, where bottom surface and core samples were collected. Bibliography (16 items).*

**Copy seen:** DF; DSI-M.

**25824. SANDERS, IRWIN TAYLOR, 1909- , ed.** Societies around the world, as interpreted by anthropology, geography, and sociology. v. 1, 3rd. ed. Lexington, Ky. University of Kentucky, 1952. viii, 365 p. illus., map.

*Source book for teachers edited by Irwin T. Sanders and others; consisting (except \*) of excerpts from cited publications. Each society is delineated according to : its people, the physical environment, making a living, social organization, the supernatural world, cultural changes. Part 1 (p. 1-130) deals with the Eskimo and his arctic habitat and consists of the following extracts:*

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\*Snow, Charles E. Physical traits of the Eskimo. (Descriptive data are given and statement: "They are clearly of Asiatic Mongoloid origin, late in time"). Voegelin, C. F. The two Eskimo languages.  
Birket-Smith, K. Where the Eskimo live.  
Weyer, E. M. The annual cycle of the seasons.  
Mauss, M. Notes on Eskimo settlement patterns.  
Ekblaw, W. E. Settlements of the Polar Eskimo.  
\*Woodbury, R. B. Eskimo prehistory. (Condensed survey of Palae-Eskimo and Neo-Eskimo culture: Ipiutak culture of Point Hope, Alaska; Old Bering Sea Culture; the eastern Dorset; Thule Culture of the central Arctic).  
Weyer, E. M. How the Eskimo uses his environment.  
Speck, F. G. Caribou hunting activities.  
Nelson, E. W. Famine on St. Lawrence Island.  
Weyer, E. M. The owning and sharing of food.  
Mirsky, J. The Ammassalik Eskimo of Greenland.  
Lantis, M. The Nunivak Eskimo of the Bering Sea.  
Rasmussen, K. The family among the Netsilik Eskimo.  
Birket-Smith, K. Childhood among the Caribou Eskimo.  
Nelson, E. W. The Kashim, or men's house, among the Bering Strait Eskimo.  
Hoebel, E. A. Social controls.  
Lantis, M. The religion of the Eskimo.  
Rasmussen, K. Amulets.  
\*Essene, F. J. Eskimo mythology. (Types of traditional tales are characterized, their function as entertainment stressed, the mythology noted as differing from Indian folklore and having resemblances to that of certain Siberian peoples).  
Rasmussen, K. Some Eskimo songs.  
\*McCarthy, M. Point Barrow today. (Description of present-day life in the largest Eskimo village in Alaska, about 1000 persons closely associated with the whites and their civilization; Eskimo adoption of new house types, American clothing, food, games and sport, use of radio and cameras, mail-order goods, etc.)  
\*DALE, G. A. Northwestern Alaska and the Bering Sea coast (this paper is abstracted under its author's name).

**Copy seen:** DLC.

**25825. SANDERSON, MARIE.** Is Canada's northwest subhumid? (Canadian geographical journal, Sept. 1950. v. 41, p. 142-46, illus., map, diagrs.)

Discussion of the Thornthwaite method of classification of climates (based on "potential evapotranspiration") in respect to the Mackenzie valley. Observations of crop production, soils and climatic experiment, substantiate the statement that the area under discussion is subhumid. Bibliography (9 items).

**Copy seen:** DGS; DLC.

**25826. SANDERSON, MARIE.** Measuring potential evapotranspiration at Norman Wells, 1949. (Geographical review, Oct. 1950. v. 40, p. 636-45, illus., tables, diagrs.)

Description of equipment, site and installation; discussion of readings and observations; tabular data on daily readings, July 2-Sept. 1, 1949, of temperature, precipitation, overflow, intake, and measured and computed evapotranspiration; brief evaluation of results of measuring "the amount of moisture that would be transferred from a vegetation-covered soil to the atmosphere by evaporation and transpiration if it were constantly available in optimum quantity" (definition of *potential evapotranspiration*).

**Copy seen:** DLC.

**25827. SANDFORD, KENNETH STUART, 1899-** . Observations on the geology of the northern part of North-East Land (Spitsbergen). (Geological Society of London. Quarterly journal, Oct. 1950. v. 105, p. 461-93, illus. (incl. 5 sketch maps), 5 plates)

On the basis of observations during the Oxford expedition of 1924 (of which the author was a member) that of 1935-36 under A. R. Glen, and the published reports of the Swedish-Norwegian Arctic Expedition of 1931, the author gives an outline of the geology of the island and detailed description of the area between 80°-80°30' N. 20°-28° E.; its granite and gneiss, Hecla Hoek Formation and structure. Bibliography (40 items).

**Copy seen:** DGS.

**SANDGREN, MARVIN A.,** *see* Bader, H., & others. Prelim. invest. snow. 1951. No. 20392.

**25828. SANDMAN, J. ALB.** Några ord om vegetationen på Ounastunturi. (Geografiska föreningen i Finland. Meddelanden, 1892-1893. Bd. 1, p. 19-37)

**Title tr.:** The vegetation of Ounastunturi.

Contains a topographical, geological and hydrological description of the Ounastunturi mountain (68°10'–68°20' N. 23°40' E.). The occurrence of spruce and pine groups is indicated and the extent of birch forests (which form here the sub-alpine region) is outlined. The greatest part of the mountain however, belongs to the alpine plant region. An analysis of its plant components is presented together with a description of the soil, water conditions, etc., of the diverse plant areas. Summary in German.

**Copy seen:** DCL.

**25829. SANDNER, WERNER.** Die Halo-Beobachtungen der Deutschen Grönland-Expedition Alfred Wegener 1930–31. (Polarforschung, 1948, pub. 1950. Bd. 2, Jahrg. 18, p. 20–24, i. e., p. 216–20) **Title tr.:** The halo observations of the German Greenland Expedition of Alfred Wegener, 1930–31.

Contains analysis of data on halos extracted from v. 4, pt. 1 of the expedition's scientific results (see Arctic Bibliography, No. 3920, 5639, 7377, and 9105) with discussion by Sandner arranged in four parts: (1) number of halo days and the annual halo frequency, (2) daily frequency, (3) statistics of observations on halo-forms (percent frequency of various forms), and (4) other observations (remarks on failure to relate occurrence of halos to solar activity or auroras).

**Copy seen:** DGS.

**25830. SANDNER, WERNER.** Meine Reise in die Barents-See im November/Dezember 1949. (Polarforschung, 1949, pub. 1950. Bd. 2, Jahrg. 19, p. 285–86) **Title tr.:** My voyage in Barents Sea, Nov.–Dec. 1949.

Brief note on results of auroral and halo observations made from a fishing vessel, under poor weather conditions.

**Copy seen:** DGS.

**25831. SANDNER, WERNER.** Nordlichtbeobachtungen in Grönland 1911/1931. (Polarforschung, 1949, pub. 1950. Bd. 2, Jahrg. 19, p. 287–92, tables) **Title tr.:** Auroral observations in Greenland 1911–1931.

Based on data (as published in the Meteorological Yearbook of the Danish Meteorological Institute) for Upernivik and Jacobshavn on the west coast and Sandodden, Angmagssalik, Scoresbysund and Germania Havn on the east coast;

discussion of data on number and frequency of aurora days and auroral periodicity. Bibliography (3 items).

**Copy seen:** DGS.

**25832. SANFORD, FRANCIS BRUCE, 1907–**, and **H. W. NILSON.** Vitamin A and D potencies of the liver oil of Pacific cod (*Gadus macrocephalus*). (Commercial fisheries review, May 1949. v. 11, no. 5, p. 13–15)

Analyses for vitamin A of livers taken during the Alaska King Crab Investigation, 1941 and in 1947, show that vitamin A potency decreases as the season advances. Vitamin D potency of composite liver oil was 200 U. S. P. units per gram of oil.

**Copy seen:** DI; DLC.

**25833. SANFORD, FRANCIS BRUCE, 1907–**, and *others.* Vitamin-A potencies of liver oils of Bering Sea cod and flounder. (Commercial fisheries review, Nov. 1950. v. 12, no. 11A (suppl.), p. 29–30, tables)

*Other authors:* J. A. Dassow and E. F. Dietrich. Results of chemical analyses are shown. Both fishes are only marginal sources of the oil, contingent upon rise in prices at least to 1947 level.

**Copy seen:** DI; DLC.

**SANFORD, FRANCIS BRUCE, 1907–**, see also Scheffer, V. B., & *others.* Vitamin A pale-colored liver. 1950. No. 25939.

**SANFORD, THOMAS F.,** see Shumacker, H. B., & *others.* Studies in experimental frostbite I; effect of heparin on gangrene. 1947. No. 26178.

**SAPRYGINA, E. S.,** see Saltykovskil, M. I., & E. S. Saprygina. Method for determination of cold-resistance of winter cereals. 1940. No. 25805.

**25834. SARAJA, VILJO.** Waffenbrüder. Leipzig, Paul List, 1942. 133 p. **Title tr.:** Brothers in arms. Translated into German by Vitalis Pantenburg from the original Finnish edition *Lunaslehto maa*.

Contains an account of the Russo-Finnish winter campaign 1939–40, with descriptions of night fighting, encounter with tanks, air raids, Russian prisoners, etc.

**Copy seen:** DLC.

**25835. SARAUF, GEORG FREDERIK LUDVIG, 1862–**. Das Rentier in Europa zu den Zeiten Alexanders und Caesars. København, B. Lunos bogtrykkeri, 1913. 34 p. "Saertryk af

Mindeskript for Japetus Steenstrup." no. 11. **Titles tr.:** The reindeer in Europe at the time of Alexander and Caesar. (Offprint from Memorial to Japetus Steenstrup, no. 11)

**Contains** a tribute to Japetus Steenstrup, 1812-1897, as an explorer of the prehistoric animal world, and the author's contribution to the early history of reindeer. On the basis of a description going back to Aristotle, the author believes that the Greeks had some knowledge of reindeer; a less clear passage in Caesar leads to similar conclusions about the Romans. An attempt is made to reconstruct the geographic distribution of the reindeer in Greek and Roman times.

**Copy seen:** DL.

25836. SARGENT, MARGARET. Folk and primitive music in Canada. (Canada. National Museum. Bulletin 123, its Annual report for 1949-50, pub. 1951, p. 75-79)

**Contains** an outline (also a tabular presentation according to cultural area) of the collecting and recording of Indian and Eskimo songs, particularly for the National Museum. The documentation of this material and extent of its publication is noted. Folk music of European origin in southern parts of Canada; and the Museum's methods in preserving and distributing this music is sketched.

**Copy seen:** DLC.

25837. SARGENT, RUFUS HARVEY, 1875-1952, and FRED H. MOFFIT. Aerial photographic surveys in southeastern Alaska. (U. S. Geological Survey. Bulletin 797-E, 1929, p. 143-60, fold. map)

**Contains** discussion of the advantages of air surveys for mapping; organization of the Alaskan Aerial Survey Expedition 1926, by the U. S. Navy Dept. and the Geological Survey "to test this new method in regions where large areas are peculiarly adapted to its success"; flying conditions, field operations and their results including the areas surveyed; printing of pictures, details of method.

**Copy seen:** DLC.

SARIS, N. E., see Hackman, W. Spindlar Kilpisjärvi. 1952. No. 22326.

25838. SARS, GEORG OSSIAN, 1837-1927. Beskrivelse af en ved Lofoten indbragte rørhval (*Balaenoptera musculus* Companyo). (Norske videnskaps-akademi, Oslo. Forhandling, 1865, pub.

1866, p. 266-95, plates 1-3) **Title tr.:** Description of a rorqual (*Balaenoptera musculus* Companyo) salvaged in the Lofoten Islands.

**Contains** a description, illustrations and dimensions of the body (p. 279-80) and the skeleton (p. 285-87) of a rorqual found dead in Lofoten Islands waters, and an annotated list of various whales and cetaceans killed or observed in these waters.

**Copy seen:** DLC; MH-Z.

25839. SARS, GEORG OSSIAN, 1837-1927. Crustacea et Pycnogonida nova in itinere 2do et 3tio Expeditionis Norvegicae anno 1877 & 78 collecta. (Prodromus descriptionis). (Archiv for matematik og naturvidenskab, 1879. Bd. 4, p. 427-76, plates 1-60) **Title tr.:** Crustacea and Pycnogonida collected during Second and Third Norwegian Expeditions, 1877-78.

**Contains** Latin diagnoses of 52 new species of marine crustaceans and pycnogonids collected in Greenland and Barents Seas by North Atlantic Expedition, 1877-78. Almost all these species are native to arctic waters, as indicated by the list of 41 stations (62°44'-79°35' N. 11°26' W.-37°1' E.) on p. 476.

**Copy seen:** MH-Z.

25840. SARS, GEORG OSSIAN, 1837-1927. Diagnoses af nye Annelider fra Christianiafjorden efter Professor M. Sars's efterladte manuskripter. (Norske videnskaps-akademi, Oslo. Forhandling, 1871, pub. 1872, p. 406-417) **Title tr.:** Diagnoses of new Annelida from Christianiafjord based on the manuscript of the late Prof. M. Sars.

**Contains** Latin diagnoses of two new genera and 18 new species of annelid marine worms, described by Michael Sars, 1805-1869, during his investigation of Christianiafjord fauna, revised and supplemented with data on geographic distribution by G. O. Sars; includes six species, occurring in Lofoten Islands waters, and one, *Protula borealis*, distributed along the entire coast of Norway.

**Copy seen:** DLC; MH-Z.

25841. SARS, GEORG OSSIAN, 1837-1927. Nye Echinodermer fra den norske kyst. (Norske videnskaps-akademi, Oslo. Forhandling, 1871, pub. 1872, p. 1-31) **Title tr.:** New echinoderms from the Norwegian coast.

**Contains** Latin diagnoses and critical notes (in Norwegian) on eight new species of echinoderms from Lofoten Islands

waters. In the supplement (p. 27-31) are Latin diagnoses (found in the papers of the author's father, Prof. M. Sars, after his death) of one new genus and four new species of echinoderms, including *Goniaster hispidus* and *Holothuria natans*, native to Lofoten Islands.

**Copy seen:** DLC; MH-Z.

**25842. SARS, GEORG OSSIAN, 1837-1927.** Om "Blaahvalen" (*Balaenoptera sibbaldii* Gray) med bemærkninger om nogle andre ved Finmarkens kyster forekommende havdyr. (Norske videnskaps-akademi, Oslo. Forhandling, 1874, pub. 1875, p. 227-41, plate) **Title tr.:** On the "blue whale" (*Balaenoptera sibbaldii* Gray) with notes on some other marine animals occurring on the Finnmark coast.

**Contains** a description of a "blue" finback whale (*Balaenoptera sibbaldii*) examined by the author during his visit to the whale-fishery of Capt. Sv. Føyn on the Finnmark coast, and descriptive notes on some other whale species occurring in that region: *Balaenoptera musculus*, *B. rostrata*, *B. laticeps*, *Megaptera boops* (humpback) and *Hyperoodon latifrons*.

**Copy seen:** MH-Z.

**25843. SARS, GEORG OSSIAN, 1837-1927.** Om den aberrante krebsdyrgruppe Cumacea og den nordiske arter. (Norske videnskaps-akademi, Oslo. Forhandling, 1864, pub. 1865, p. 128-208) **Title tr.:** On aberrant Crustacean group Cumacea and its northern species.

**Contains** a critical revision of northern species of this group, with a morphological sketch and data on its systematic position. Diagnoses are presented of 25 species (15 described as new) including nine native to Lofoten Islands region, with critical notes and notes on distribution.

**Copy seen:** DLC; MH-Z.

**25844. SARS, GEORG OSSIAN, 1837-1927.** Om individuelle variationer hos rørhvalerne og de deraf betingede uligheder i den ydre og indre bygning. (Norske videnskaps-akademi Oslo. Forhandling, 1868, pub. 1869, p. 31-74, 2 tables) **Title tr.:** Individual variations in the rorquals and recorded differences in their external and internal structure.

**Contains** a study of external and internal variations in the structure of rorquals, based on literature data and the author's investigation of skeletons in various museums, with record of dimensions of 18 species, p. 59-69, and two survey tables at the end. Includes some

species native to northern Norwegian waters (Lofoten Island).

**Copy seen:** MH-Z.

**25845. SARS, GEORG OSSIAN, 1837-1927.** Oversigt af Norges marine Ostracoder. (Norske videnskaps-akademi, Oslo. Forhandling, 1865, pub. 1866, p. 1-130) **Title tr.:** A review of marine Ostracoda of Norway.

**Contains** a taxonomic treatment of marine crustaceans of the order Ostracoda, inhabiting Norwegian waters, with Latin diagnoses of the families, genera and 78 species (about 60 are new to science) including many native to Greenland and Barents Sea.

**Copy seen:** MH-Z.

**25846. SARS, GEORG OSSIAN, 1837-1927.** The Phyllopoda of the Jana Expedition. (Akademik nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1897. t. 2, no. 4, p. 463-93, plates 23-30)

**Contains** detailed descriptions in English of 8 phyllopods (males and females) brought home by Baron E. von Toll and Dr. A. Bunge from the Expedition to Yana River region and New Siberian Islands in 1885-86, with synonymy, list of localities and data on total distribution.

**Copy seen:** DLC; MH-Z.

**25847. SARS, GEORG OSSIAN, 1837-1927.** Prodröm descriptionis Crustaceorum et Pycnogonidarum, quae in expeditione norvegica anno 1876 observavit. (Archiv for matematik og naturvidenskab, 1877. Bd. 2, p. 237-71) **Title tr.:** Preliminary descriptions of Crustacea and Pycnogonida observed during the Norwegian Expedition of 1876.

**Contains** a list of the stations in the Greenland Sea and a systematic enumeration of 156 species of crustaceans (20 species described as new) and eight pycnogonids, with analyses of four new species and a list of 80 species with tabulated data on their distribution in other arctic regions.

**Copy seen:** MH-Z.

**25848. SARS, GEORG OSSIAN, 1837-1927.** Revision af gruppen: Isopoda chelifera med karakteristisk af nye herhen hørende arter og slægter. (Archiv for matematik og videnskab, 1882. Bd. 7, hefte 1, p. 1-54) **Title tr.:** A revision of the group Isopoda chelifera with characteristics of new genera and species.

**Contains** a critical revision of 60 species of marine crustaceans of the suborder Isopoda chelifera from various oceans

and seas, with Latin diagnoses of 25 new species, synonymy, critical notes and data on geographic distribution; includes nine species native to Greenland and Barents Seas.

**Copy seen:** DLC; MH-Z.

**25849. SARS, GEORG OSSIAN, 1837-1927.** Undersøgelser over Hardangerfjordens fauna. (Norske videnskaps-akademi, Oslo. Forhandling, 1871, pub. 1872, p. 246-86) **Title tr.:** Investigation of Hardangerfjord fauna.

**Contents** include a list of 119 crustaceans observed during the author's trip, with descriptions of some new forms (p. 256-82) including *Lamprops uniplicata* and *Munida tenuimana* n. spp. native to Hardangerfjord and Lofoten Islands waters, also 85 other species occurring in the same regions (see table, p. 283-87)

**Copy seen:** DLC; MH-Z.

**25850. SARS, MICHAEL, 1805-1869.** Bemaerkninger over Crangoninerne med beskrivelse over to nye norske Arter. (Norske videnskaps-akademi, Oslo. Forhandling, 1861, pub. 1862, p. 179-87) **Title tr.:** Notes on Crangoninae with description of two Norwegian species.

**Contains** a list of 11 species of the crustacean genus *Crangon* and six species of the related genera, including at least five representatives of arctic regions, some having circumpolar distribution (*C. boreas*).

**Copy seen:** DLC; MH-Z.

**25851. SARS, MICHAEL, 1805-1869.** Bemaerkninger over det dyriske livs udbredning i havets dybber. (Norske videnskaps-akademi, Oslo. Forhandling, 1864, pub. 1865, p. 53-68) **Title tr.:** Notes on the vertical distribution of animal life in the ocean.

**Contains** a study of the vertical distribution of marine fauna in the North Atlantic with a list of about 100 species (in seven orders) including some native to Greenland and Barents Sea; based on the author's own observations, on papers of various Scandinavian scientists and on that of G. C. Wallich, *Notes on the presence of animal life at sea*, 1860 (*Arctic Bibliography*, No. 19099).

**Copy seen:** DLC; MH-Z.

**25852. SARS, MICHAEL, 1805-1869.** Bemaerkninger over fire norske Hydroider. (Norske videnskaps-akademi, Oslo. Forhandling, 1862, pub. 1863, p. 25-39) **Title tr.:** Notes on four Norwegian hydroids.

**Contains** Latin diagnoses of two genera and four species of hydroids inhabiting Norwegian waters including *Lafoea plicatilis* n. sp. found near Vadsø (70°05' N.) in Finnmark, and *L. dumosa*, *L. fruticosa* and *Grammaria abietina* spreading to Nordkap on the northern coast, with some critical notes (in Norwegian).

**Copy seen:** DLC; MH-Z.

**25853. SARS, MICHAEL, 1805-1869.** Beretning om et nyt lernaalignende krebsdyr, *Sabellacheres gracilis* SARS. (Norske videnskaps-akademi, Oslo. Forhandling, 1861, pub. 1862, p. 141-43) **Title tr.:** A report on a new lernaean crustacean, *Sabellacheres gracilis* SARS.

**Contains** a Latin diagnosis of *Sabellacheres gracilis* n. gen. et sp., a minute crustacean parasitic on an annelid *Myzicola sarsii*, found in Troms waters.

**Copy seen:** DLC; MH-Z.

**25854. SARS, MICHAEL, 1805-1869.** Beskrivelse af fire nye parasitiske Copepoder. (Norske videnskaps-akademi, Oslo. Forhandling, 1861, pub. 1862, p. 134-41) **Title tr.:** Description of four new parasitic Copepoda.

**Contains** Latin diagnoses and critical notes on four new genera and species of minute marine copepods parasitic on annelid worms, including *Sabelliphilus elongatus* and *Chonephilus dispar* n. gen. et spp., native to Troms county waters.

**Copy seen:** DLC; MH-Z.

**25855. SARS, MICHAEL, 1805-1869.** Beskrivelse over nogle norske Polyzoer. (Norske videnskaps-akademi, Oslo. Forhandling, 1862, pub. 1863, p. 141-67) **Title tr.:** Description of some Norwegian polyzoans.

**Contains** a list of ten species of marine polyzoans (bryozoans), all native to Greenland and Barents Seas, with Latin descriptions, synonymy, critical notes and data on geographic distribution. *Eschara palmata* is described as new to science.

**Copy seen:** DLC; MH-Z.

**25856. SARS, MICHAEL, 1805-1869.** [Beskrivelse over norske Annelider]. (Norske videnskaps-akademi, Oslo. Forhandling, 1861, pub. 1862, p. 87-95) **Title tr.:** Description of Norwegian Annelida.

**Contains** (in this report without a formal title) Latin diagnoses of one new genus (*Ophiodromus*) and seven species of marine annelid worms (four are new)

including five native to the Greenland and Barents Seas.

**Copy seen:** DLC; MH-Z.

**25857. SARS, MICHAEL, 1805-1869.** Bidrag til en skildring af den arctiske molluskfauna ved Norges nordlige kyst. (Norske videnskaps-akademi, Oslo. Forhandling, 1858, pub. 1859, p. 34-87)

**Title tr.:** A contribution to the description of the arctic molluscan fauna of the northern coasts of Norway.

**Contains** a systematic list of all known molluscs from the arctic region of Norway with data on Norwegian and total distribution; a synopsis of 133 arctic species and data on their occurrence on western coast of Greenland and eastern coast of North America; another list of 86 boreal species of Norway and statistical data on occurrence of arctic species in other regions.

**Copy seen:** DLC; MH-Z.

**25858. SARS, MICHAEL, 1805-1869.** [Echinodermer og coelenterater, fundne ved Lofoten.] (Norske videnskaps-akademi, Oslo. Forhandling, 1867, pub. 1868, p. 19-23) **Title tr.:** Echinoderms coelenterates collected in the Lofoten Islands.

**Contains** (in this report without formal title) brief preliminary descriptions or critical notes on five species of echinoderms and coelenterates collected in Lofoten waters by G. O. Sars in 1866, including *Thyonidium scabrum* and *Holothuria natans* n. spp. and *Isidella lofotensis* n. gen. et. sp.

**Copy seen:** DLC; MH-Z

**25859. SARS, MICHAEL, 1805-1869.** Fortsatte bemaerkninger over det dyriske livs udbredning i havets dybber. (Norske videnskaps-akademi, Oslo. Forhandling, 1868, pub. 1869, p. 246-75) **Title tr.:** Further notes on vertical distribution of animal life in the ocean.

**Contains** a study of vertical distribution of marine fauna in Norwegian coastal waters, with a list of 247 species found alive at 200-450 fathoms depth. This paper is in continuation of the author's *Bemaerkninger over det dyriske livs udbredning*, 1865, q. v., which lists 92 species at 200-300 fathoms depth.

**Copy seen:** DLC; MH-Z.

**25860. SARS, MICHAEL, 1805-1869.** Fortsatte bidrag til kundskaben om Norges Annelider. (Norske videnskaps-akademi, Oslo. Forhandling, 1864, pub. 1865, p. 5-20) **Title tr.:** Further

contributions to the knowledge of Norwegian Annelida.

**Contains** Latin and Norwegian descriptions of *Amphiteis finmarchica*, *Polycirrus arcticus* and *Terebella ebranchiata* n. spp., and *Amphiteis gunneri*, all native to Troms and Finnmark waters.

**Copy seen:** DLC; MH-Z.

**25861. SARS, MICHAEL, 1805-1869.** Fossiler fra Skotlands og Nordamerica's glacial formation. (Norske videnskaps-akademi, Oslo. Forhandling, 1867, pub. 1868, p. 51-58) **Title tr.:** Fossils from glacial formations in Scotland and North America.

**Contains** in pt. 2 of this paper, a list of 29 fossil molluscs, collected by Dr. Packeraid in various North American localities, including six species from Labrador.

**Copy seen:** DLC; MH-Z.

**25862. SARS, MICHAEL, 1805-1869.** Malacozoologiske iakttagelser: I, Om dyret af *Cryptodon sarsii* (Axinus) Philippi; II, Nye arter af slægten *Siphodontalium*. (Norske videnskaps-akademi, Oslo. Forhandling, 1864, pub. 1865, p. 283-315, plates 4-7) **Title tr.:** Zoological observations on molluscs: I, On *Cryptodon sarsii* (Axinus) Philippi; II, New species of the genus *Siphodontalium*.

**Contains** Latin and Norwegian description of molluscs, *Cryptodon sarsii* distributed all along the coast of Norway, and four new species of the genus *Siphodontalium* spreading to Lofoten Islands waters.

**Copy seen:** DLC; MH-Z.

**25863. SARS, MICHAEL, 1805-1869.** Mémoires pour servir à la connaissance des Crinoïdes vivants. Christiania, Brøgger & Christie, 1868. 65 p. plates 1-6. (Programme de l'Université royale de Norvège) **Title tr.:** Contributions to the knowledge of living Crinoidea.

**Contains** a morphological study of *Rhizocrinus*, a new genus of the group Crinoidea of marine echinoderms and Latin diagnoses of *Rhizocrinus lofotensis* n. gen. et sp. (p. 38-39), collected by G. O. Sars in Lofoten Islands waters (68°11' N.); also data on the biology and development of another echinoderm, *Antedon sarsii*, from the same region.

**Copy seen:** DLC; MH-Z.

**25864. SARS, MICHAEL, 1805-1869.** Nye dybvandserustaceer fra Lofoten. (Norske videnskaps-akademi, Oslo. For-

handlinger, 1869, pub. 1870, p. 147-74)  
**Title tr.:** New deep-sea Crustaceans from the Lofoten Islands.

Contains Latin diagnoses of four new genera and 25 new species of crustaceans found living at 200-300 fathoms depth in Lofoten Islands waters.

**Copied seen:** DLC; MH-Z.

**25865. SARS, MICHAEL, 1805-1869.**  
Om antallet af Holothurider i den norsk-aretske region. (Norske videnskaps-akademi, Oslo. Forhandlinger, 1858, pub. 1859, p. 167-70) **Title tr.:** On the number of Holothurioidae in the Norwegian arctic region.

Contains a list of seven sea cucumbers (holothurians), including *Holothuria ecalcareo* and *Molpadia borealis* n. spp., new to the fauna of the Norwegian Arctic, bringing the number of all known species from this region up to ten.

**Copied seen:** DLC; MH-Z.

**25866. SARS, MICHAEL, 1805-1869.**  
Om arktiske dyreformer i Christiania-fjorden. (Norske videnskaps-akademi, Oslo. Forhandlinger, 1865, pub. 1866, p. 196-102) **Title tr.:** On arctic faunal forms in Christianiafjord.

Contains a systematic list of 32 species of so-called "arctic outliers" (arthropods, molluscs, worms and echinoderms) in the fauna of Christianiafjord, with data on their distribution in their native arctic regions and the discussion of the reasons of their occurrence in the southern part of Norway.

**Copied seen:** DLC; MH.

**25867. SARS, MICHAEL, 1805-1869.**  
Om *Chaetopterus sarsii* Boeck nov. sp. og *Chaetopterus norvegicus* Sars. (Norske videnskaps-akademi, Oslo. Forhandlinger 1860, pub. 1861, p. 85-88) **Title tr.:** On *Chaetopterus sarsii* Boeck n. sp. and *C. norvegicus* Sars.

Contains Latin diagnoses of three annelid worms of the genus *Chaetopterus*, inhabiting European waters, including *C. norvegicus*, found along Norwegian coast from Christianiafjord to Lofoten Islands.

**Copied seen:** DLC; MH-Z.

**25868. SARS, MICHAEL, 1805-1869.**  
Om de ved Norges kyster forekommende arter af dem Linneiske Annelidslægt *Sabella*. (Norske videnskaps-akademi, Oslo. Forhandlinger, 1861, pub. 1862, p. 116-33) **Title tr.:** On some species of the Linnean annelid genus *Sabella* occurring on the Norwegian coast.

Contains a critical revision of this genus of annelid worms, split by the

author into four genera (*Sabella* (pro parte), *Chone*, *Dasychone* and *Myzicola*). Latin descriptions are given for these genera and for ten species (four described as new) native to the Norwegian coast, and an additional list of seven doubtful species is appended. Includes at least six species reported from northern Norwegian waters.

**Copied seen:** DLC; MH-Z.

**25869. SARS, MICHAEL, 1805-1869.**  
Om nogle nye eller lidet bekendte norske Coelenterater. (Norske videnskaps-akademi, Oslo. Forhandlinger, 1860, pub. 1861, p. 140-51) **Title tr.:** On some new or little known Norwegian coelenterates.

Contains Latin and Norwegian descriptions of ten new or little known coelenterates, including five species native to the Greenland and Barents Seas.

**Copied seen:** DLC; MH-Z.

**25870. SARS, MICHAEL, 1805-1869.**  
Om tre nye Holothurider, af hvilke den ene danner typus for en ny slægt. (Norske videnskaps-akademi, Oslo. Forhandlinger, 1858, pub. 1859, p. 170-79) **Title tr.:** On three new Holothurioidae of which one forms the type of a new genus.

Contains Latin and Norwegian descriptions of three new sea cucumbers, including *Holothuria ecalcareo* and *Molpadia borealis* n. spp. from Oxfjord, Finnmark, Norway.

**Copied seen:** DLC; MH-Z.

**25871. SARS, MICHAEL, 1805-1869.**  
Oversigt af Norges Echinodermer. Christiania, Brøgger & Christie, 1861. vi, 160 p., plates 1-16. (Udgiven af Videnskabselskabet i Christiania) **Title tr.:** A survey of Norwegian echinoderms.

Contains a critical revision of 79 species of marine echinoderms inhabiting Norwegian waters, with synonymy, critical notes, Latin diagnoses of two new genera and four new species and (p. 140-46) data on geographic distribution. Includes at least 30 species native to northern waters.

**Copied seen:** DLC; MH-Z.

**25872. SARS, MICHAEL, 1805-1869.**  
Oversigt over de norsk-aretske region forekommende krebsdyr. (Norske videnskaps-akademi, Oslo. Forhandlinger, 1858, pub. 1859, p. 122-63) **Title tr.:** A review of the crustaceans of the Norwegian arctic region.

Contains a systematic list of 89 marine crustaceans collected by the author

during his journey to Nordland and Finnmark in the summer of 1857, including Latin and Norwegian diagnoses of 11 new species and critical notes and data on Norwegian and total distribution of other species, also comparison with faunas of other arctic regions.

**Copy seen:** DLC; MH-Z.

**25873. SARS, MICHAEL, 1805-1869.** Uddrag af en afhandling om de ved Norges kyster forekommende arter af Annelidslægten *Polynoë*. (Norske videnskaps-akademi, Oslo. Forhandlingler, 1860, pub. 1861, p. 54-62) **Title tr.:** A summary of a study of the species of annelidan genus *Polynoë* occurring on the coast of Norway.

**Contains** a critical revision of ten Norwegian species of annelidan genus *Polynoë* with Latin diagnoses of five new species; includes six species native to Greenland and Barents Sea.

**Copy seen:** DLC; MH-Z.

**25874. SARS, MICHAEL, 1805-1869.** [Uddrag af en afhandling over en deel norske Annelider]. (Norske videnskaps-akademi, Oslo. Forhandlingler 1861, pub. 1862, p. 50-67) **Title tr.:** Summary of an essay on Norwegian Annelida.

**Contains** (in this report without formal title) a critical revision of 11 marine annelid worms, occurring in Norwegian waters, with Latin diagnoses, critical notes and data on distribution. Includes five species native to the Greenland and Barents Sea; three species described as new.

**Copy seen:** DLC; MH-Z.

**25875. SARS, MICHAEL, 1805-1869.** Udtog af en afhandling om ammeslægten *Corymorpha* og dens arter opammede Meduser. (Norske videnskaps-akademi, Oslo. Forhandlingler, 1859, pub. 1860, p. 96-105) **Title tr.:** A summary of a report on medusae of the genus *Corymorpha*.

**Contains** descriptions of seven species of hydrozoan genus *Corymorpha* (two species described as new) including *C. glacialis* n. sp. found in Vadsø, Varangerfjord region (70° N.) and *C. sarsii* from Vestfjord and Lofoten Islands waters, with some critical notes.

**Copy seen:** MH-Z.

**25876. SARS, MICHAEL, 1805-1869.** En zoologisk og anatomisk beskrivelse over *Siphonodentalium*, en ny slægt af Dentalidernes familie. (Norske videnskaps-akademi, Oslo. Forhandlingler,

1859, pub. 1860, p. 182-84) **Title tr.:** Zoological and anatomical description of *Siphonodentalium*, a new genus of the family Dentalidae.

**Contains** Latin diagnoses of new molluscan genus *Siphonodentalium* and *S. vitreum* n. sp. native to Oxford, Finnmark, northern Norway.

**Copy seen:** DLC; MH-Z.

**SARS, MICHAEL, 1805-1869, see also** Sars, G. O. Diagnoses af nye Annelider. 1872. No. 25840.

**SARS, MICHAEL, 1805-1869, see also** Sars, G. O. Nye Schinodermer fra norske kyst, 1872. No. 25841.

**25877. SARVAS RISTO.** Havaintoja Pohjois - Suomen kuloalojen - kasvillisuuden kehityksestä. (Luonnon tutkija, 1938, v. 42, no. 6, p. 215-21, illus., table) **Title tr.:** Observations on the development of the flora in some burned-over areas in northern Finland.

**Contains** data on the plant species which appeared after fire in forested areas of northern Finland. The author elaborates on Norrlin's tabulation of the occurrence of 22 vegetation types in the three most common forest types of the area at 1, 10, 20, 30, 50 and 100 years after burning.

**Copy seen:** DLC.

**25878. SARVAS, RISTO.** Kuloalojen luontaisesta metsittymisestä. Pohjois-Suomen juuvilla kankailla suoritettu metsäbiologinen tutkielma. Helsinki, 1937. 147 p., plates, illus., maps (incl. 1 fold.), tables, diagrs. (Acta forestalia fennica, 46:1) **Title tr.:** The natural reforestation of burned areas. A study in the forest biology of the dry heath (moor) areas of northern Finland.

**Description** of the area, its general natural characteristics, forests and forest types; methods and materials used for this study; causes and nature of wild fires, their damage to forests; reforestation of burned areas, their undergrowth, observations on the cutting of new birch shoots and damage to seedlings. Data on achievements in reforesting burned-over areas, and work still to be done, with descriptions of 75 experimental localities. Bibliography (about 80 items). Summary in German, p. 77-83.

**Copy seen:** DLC.

**25879. SARVAS, RISTO.** Tutkimuksia Perä-Pohjolan harsimalla hakattujen yksityismetsien luontaisesta uudistamisesta. Helsinki, 1950. 95 p., illus.,

tables, diagrs., map. (Helsingfors. Metsätieteellinen tutkimuslaitos. Julkaisu, v. 38, no. 1) **Title tr.:** Investigations on natural regeneration of selectively-cut private forests in northern Finland.

**Contains** a study of 37 sample plots, 13 from *Ericaceae-Cladinae* type and 24 from *Empetrum-Myrtillus* type; these dry forest types represent 73 per cent of all firm productive forest lands of northern Finland. The stands studied are located in the Arctic, on relatively low lands (150-450 metres above sea level); a comparative method of investigation was applied. Bibliography (about 100 items). Summary in English. **Copy seen:** DLC.

**25880. SAUBERER, FRANZ.** Die spektrale Strahlungsdurchlässigkeit des Eises. (Wetter und Leben, Mar. 1950. v. 2, no. 9-10, p. 193-97) **Title tr.:** The spectroscopic transparency of ice.

"It is assumed that the radiation properties of ice from different inland waters are similar and deviate little from those of pure water. Experiments by Kalitin with pond ice indicate that the transparency of clear ice in the ultra-violet and visible ranges is practically equal. A quartz double-monochromator, Moll micro-thermopiles, selenium-photo elements, and infra-red photo resistances were used to measure the transparency of 14 to 16 cm. thick ice plates. Comparisons between the transparency of sea-ice and distilled water show only small differences. The transparency of pure clear ice to infra-red rays corresponds essentially to that of pure water."—**SIPRE.** **Copy seen:** DLC; DWB.

**25881. SAURAMO, MATTI.** Alfred Wegenerin elämäntyö. (Terra, 1932. 44:1, p. 39-66, illus.) **Title tr.:** The life work of Alfred Wegener.

**Contains** account of the death of Wegener in 1930 on the inland ice during his expedition to Greenland 1929, 1930-31; his investigation of the depth of the icecap by seismic soundings in comparison with Meinardus' findings; Wegener's studies toward determining the effect of land ice on the physical structure of the earth; his theory of continental drift, Greenland moving closer to North America; his first two trips to Greenland 1906 and 1913, doing meteorological work, his last trips as expedition leader and geophysicist in 1929-30. Includes also Wegener's work outside the Arctic.

**Copy seen:** DLC.

**25882. SAURAMO, MATTI.** The Quaternary geology of Finland. Helsinki, 1929. 110 p., 39 illus., 25 plates, maps, incl. fold., diagrs. (Finland. Geologiska kommission. Bulletin, no. 86)

**Contains** chapters on glaciation of northern Europe; moraine drift; glacial-fluvial deposits; glacial-fluvial erosion; clay deposits; changes of level; development of the flora and changes of climate; prehistoric periods. Chronological table and bibliography (69 items). **Plates:** 41 photographs (many of northern localities), illustrative of the phenomena discussed. **Maps** show extent of the European ice-sheet during these stages; striae and boulder trains in Finland; disappearance of the last ice-sheet in northern Europe; highest shores in Finland; Yoldia Sea about 7900 B. C.; northern limits of certain plant species, past and present in Finland; superficial deposits. **Copy seen:** DLC.

**25883. SAURAMO, MATTI.** Suomen luonnon kehitys jääkaudesta nykyaikaan. Helsinki, Werner Söderström Osakeyhtiö, 1940. 286 p., 136 illus., incl. maps, diagrs. **Title tr.:** Nature and development of the landscape of Finland from the ice age to the present.

This well-illustrated text book of historical geology deals with evidences of glaciation, glacier action in Europe and Finland during the ice age; moraines, boulders, and evolution of their present grouping; forms created by melt water; clay and sand; chronology of the ice age, its passing. Present rise of land in Finland; young and old alluvium-built areas; shore forms; melt-water deltas; high marks of the Yoldia sea; Salpausselkä bay; Baltic Sea during the Salpausselkä stage; later development of the eastern sea in Karelia and the North; swamp formation and types, their stratigraphy, effect on vegetation, pollen, pollen analysis and its use as chronology indicator; diatoms. The Rhabdonoma sea, Ancylus lake; Littorina sea; development of arctic sea and later lakes; rise of land in late Quaternary time. Interglacial forms and theories on ice age weather. Changing climate; radiation during Quaternary time; development of plants; climatic change in the late Quaternary; early man, and his epoch in Finland. Includes detailed index, and a bibliography (35 items). **Copy seen:** DLC.

**25884. SAURAMO, MATTI.** Tracing of glacial boulders and its application in

prospecting. Helsinki, 1924. 37 p., maps. (Finland. Geologiska kommission. Bulletin, v. 11, no. 67)

Introductory discussion on the utilization of boulders in search for ore deposits, and methods of tracing the boulders to their source; followed by description of 13 ore deposits being successfully prospected by means of glacial boulders traced to source; remarks on striae as indicators of the ice movement; formation of boulder trains; how to trace a glacial boulder.

**Copy seen:** DLC.

**25885. SAURAMO, MATTI.** Über das Verhältnis der Ose zum höchsten Strand. Helsinki, 1929. 15 p. **Title tr.:** On the relation of the eskers to the highest shore line.

**Contains** a discussion of the theories of esker formation and the evidence supporting them. The relation of the eskers to the highest sea level is analyzed in a general way, and also on the basis of specific eskers in Finland; conclusions are drawn on the effect of the highest level of standing waters on the height and form of eskers. Bibliography (14 items).

**Copy seen:** DLC.

**25886. SAURAMO, MATTI.** Yoldia-meri entisten ja nykyisten tutkimusten valossa. (Terra, 1933. 45:1, p. 1-14, illus., diagrs.) **Title tr.:** The Yoldia sea in the light of earlier and modern research.

Presidential address to the Geographical Society of Finland in 1933, outlining changes since late 19th century in conception of the late-glacial or Yoldia sea (named from the bivalve *Yoldia arctica* found with other arctic faunal fossils in clay overlain with gravel). Author notes the work of Munthe, Ramsay, Hellaakoski and himself, tracing the highest beaches and shore marks in different parts of Fennoscandia, also his own recent attempt to work out a new map illustrating the Yoldia sea (extending from 58°-70° N. lat.). He includes some data on the shore marks and beaches, the elevation, diatoms, land ice, eskers, etc. Summary of text and explanation of maps and diagrams is given in English.

**Copy seen:** DLC.

**SAURAMO, MATTI,** see also Äyräpää, A., & M. Sauramo. Von ältesten Niederlassungen. 1949. No. 20054.

**SAUVÉE, JEAN,** see Lebreton, L. J., & J. Sauvée. Pêcheries mondiales. 1950. No. 23717.

**25887. SAVATEEV, V. B.** O fiziologii prispособleniia balanusov (*Balanus balanoides*) k kolebaniiam solenosti. (Zoologicheskii zhurnal, 1952. t. 31, vyp. 6, p. 861-65, diagrs.) **Title tr.:** On the physiology of adaptation of acorn barnacles (*Balanus balanoides*) to the fluctuation of salinity.

**Contains** a study of the adaptation of the tissues of a marine crustacean, *Balanus balanoides*, to the fluctuation of saline content of sea-water under natural environmental conditions. The study was carried out by the author on the Murman coast of the Barents Sea. Tabular data and diagrams are included, p. 863-64.

**Copy seen:** MH-Z.

**25888. SAVICH, LIDIYA IVANOVNA (LÛBITSKAIA), 1886-** . Sfgagnoye mkhi basseinov Anadyria i Penzhinskoi guby (sobrannye V. B. Sochava v 1929 i 1930 gg.). (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1936. no. 16, p. 101-107) **Title tr.:** Sphagnum mosses of the Anadyr and Penzhina Bay collected by V. B. Sochava in 1929 and 1930.

**Contains** a list of 18 species of sphagnum mosses collected by V. B. Sochava on the eastern coast of Bering Sea, and in the lower and middle course of the Anadyr River in 1929, and in the Penzhina Bay region in 1930, with notes on habitat and local distribution.

**Copy seen:** DLC; MH-A.

**25889. SAVICH, LIDIYA IVANOVNA (LÛBITSKAIA), 1886-** . Sfgagnoye (torfiane mkhi). Sphagnales. Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1952. 252 p. illus. (44 fig.) map. (In: Savich, V. P., and others, Flora sporovyykh rastenii SSSR. Listostebel'nye mkhi. t. 1, vyp. 1) **Title tr.:** Sphagnales (peat mosses).

**Contains** a monographic treatment of the peat mosses of the U.S.S.R., including in the general part (p. 15-81), historical notes on the study of Sphagnales, data on their structure and development, methods of gathering and determination, nomenclature and classification. In the special part are tables for the determination of subgenera, sections and species, and description of 43 species, with synonymy, data on habitat and distribution in the U.S.S.R. and other regions. **Supplements:** (1) biochemistry of peat mosses; (2) industrial and medicinal uses. Bibliography (200 items);

indexes. Many species native to northern regions of the U.S.S.R. are included in this study. **Copy seen:** MH-F.

**25890. SAVICH, VSEVOLOD PAVLOVICH, 1885-** , editor, and others. Flora sporovykh rastenii SSSR. Listostebel'nye mshi. Flora plantarum cryptogamarum. Musci frondosi. Tom 1. Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1952- in progress. **Title tr.:** Flora of cryptogams of the U.S.S.R. Leafy mosses, vol. 1.

This initiates a publication issued by the Botanical Institute of the Academy of Sciences of the U.S.S.R., and projected in eight fascicles. It is to present a monographic treatment of all known mosses of the U.S.S.R. by the group of bryologists of the Institute, under direction of Prof. V. P. Savich. The first part, which appears in this Bibliography under its author's name, is SAVICH, L. I. Sphagnales. *Peat mosses*.

**Copy seen:** MH-F.

**25891. SAVICH, VSEVOLOD PAVLOVICH, 1885-** . Konspekt k flore lishafnikov sem. Umbilicariaceae v SSSR. Conspectus lichenum ad floram Umbilicarum in URSS. (Akademii nauk SSSR. Botanicheskii institut. Otdel sporovykh rastenii. Botanicheskie materialy, 1950. t. 6, vyp. 7-12, p. 97-108, illus.) **Title tr.:** A conspectus of the lichens of the fam. Umbilicariaceae in the flora of the U.S.S.R.

**Contains** a systematic list of 29 lichens of the fam. Umbilicariaceae growing in the U.S.S.R. with Latin diagnoses of the genera and subgenera, synonymy and data on distribution; includes many species native to northern European Russia and Siberia and arctic islands (Franz Josef Land, Novaya Zemlya, Kolguyev, Vaygach, etc.).

**Copy seen:** MH-F.

**25892. SAVICH, VSEVOLOD PAVLOVICH, 1885-** . Lishafniki roda *Aspicilia* na Kamchatke. Lichenes generis *Aspicilia* e Kamchatke. (Akademii nauk SSSR. Botanicheskii institut. Otdel sporovykh rastenii. Botanicheskie materialy, 1949, t. 6, vyp. 1-6, p. 1-9) **Title tr.:** Lichens of the genus *Aspicilia* on the Kamchatka Peninsula.

**Contains** descriptions of nine species collected by the author during his travels on Kamchatka in 1908-1909, including a Latin diagnosis of *Aspicilia pelobotria* var. *gyrocarpa* n. var. and a key for the deter-

mination of five related species of this genus. **Copy seen:** MH-F.

**25893. SAVICH, VSEVOLOD PAVLOVICH, 1885-** . O rabotakh po sporovym rasteniiam Botanicheskogo instituta im. V. L. Komarova Akademii nauk SSSR. (K 50-letiiu Otdela sporovykh rastenii). (Priroda, 1949, no. 10, p. 87-93) **Title tr.:** Study of cryptogams in the V. L. Komarov Botanical Institute of the Academy of Sciences U.S.S.R. (On the occasion of the 50th anniversary of the founding of the Section of Cryptogams).

**Contains** an historical review 1898-1948, of the activity of this Section of the Institute, arranged in four sections: algae, fungi, lichens and mosses. It includes some work concerning the northern U.S.S.R. (by Elenkin, Kosinskaya, Zinova, Savich) and Kamchatka Peninsula (Elenkin).

**Copy seen:** DLC; MH.

**25894. SAVICH, VSEVOLOD PAVLOVICH, 1885-** . Podvodnye lishafniki. (Akademii nauk SSSR. Botanicheskii institut. Trudy. ser. 2. Sporovye rasteniia, 1950. vyp. 5, p. 148-70) **Title tr.:** Submerged lichens.

**Contains** historical notes on the study of submerged lichens, keys to the families and genera of the subclass Ascolichenes and a systematic list of all known species with descriptive notes and data on geographic distribution, including some species native to northern regions of Scandinavia and U.S.S.R.

**Copy seen:** MH-A.

**25895. SAVICH, VSEVOLOD PAVLOVICH, 1885-** , and A. A. ELENKIN. Vvedenie k flore lishafnikov Aziatskoi chasti SSSR. (Botanicheskii institut. Trudy. ser. 2. Sporovye rasteniia, 1950. vyp. 6, p. 181-335) **Title tr.:** Introduction to the lichen flora of the Asiatic section of the U.S.S.R.

**Contains** critical review of 401 papers (including some on northern regions of Siberia) dealing with lichen flora of Siberia and Central Asia, with lists of species described and, in some cases, with diagnoses of new or interesting species.

**Copy seen:** MH-A.

**25896. SAVILE, DOUGLAS BARTON OSBORNE, 1909-** . Bird notes from Great Whale River, Que. (Canadian field naturalist, May-June 1950. v. 64, p. 95-99)

Annotated list of 69 species of birds observed during June-Sept. 1949, at a

settlement in northern Quebec, 55°17' N. 77°47' W.

**Copoly seen:** DGS; DSI-M.

**25897. SAVILE, DOUGLAS BARTON OSBORNE, 1909-** . Bird observations at Chesterfield Inlet, Keewatin, in 1950. (Canadian field-naturalist, July - Aug. 1951. v. 65, p. 145-57)

Notes on migration, breeding population, and phenology, with field notes on 48 species of birds observed during May-Sept. 1950.

**Copoly seen:** DGS.

**25898. SAVILE, DOUGLAS BARTON OSBORNE, 1909-** , and J. A. CALDER. Notes on the flora of Chesterfield Inlet, Keewatin District, N. W. T. (Canadian field-naturalist, July-Aug. 1952. v. 66, p. 103-107)

Contains field notes on 29 species and varieties of flowering plants, 20 of which are new records for the Chesterfield Inlet region and nine for the Canadian Eastern Arctic.

**Copoly seen:** DGS.

**25899. SAWYER, C. N.** Activated sludge oxidations VI. Results of feeding experiments to determine the effect of the variables temperature and sludge concentration. (Sewage works journal, 1940. v. 12, p. 244-59, illus., tables, diags.)

Part of the experiments were conducted to ascertain the effect of temperature upon the nitrifying ability of activated sludge, it having been observed previously that winter temperatures are conducive to the development of non-nitrifying sludges. Studies were conducted at 10°, 15°, 20° and 25° C., with activated sludges of identical concentration, also at 10° C. and room temperature with various concentrations of activated sludge. Detailed conclusions and a summary are presented on p. 257-58. Bibliography (8 items).

**Copoly seen:** DSG.

**25900. SAXTON, J. A.** Reflection coefficient of snow and ice at V. H. F. (Wireless engineer, Jan. 1950. v. 27, no. 316, p. 17-25)

"The presence of snow or ice on the earth's surface produces a change in the reflection coefficient of the surface because of multiple reflections within the layer of snow or ice. An estimate is made of the dielectric properties of snow. A general formula for reflection coefficients for plane waves in the presence of a layer of snow or ice is given. The formula is in terms of several basic parameters which have

been determined for frequencies of 30, 300, 3000, and 30,000 Mc/sec. Reflection coefficients for snow over land, and ice over sea water are calculated for 300 and 3000 Mc/sec. at angles of 0° (normal incidence), 45°, and 80° for radiation polarized with the electric vector either parallel to or in the plane of incidence. It appears that the vertical-coverage diagram of a very high frequency radio transmitter may be appreciably modified by the presence of layers of ice or snow."—SIPRE. Bibliography (30 items).

**Copoly seen:** DLC.

**25901. SAXTORPH, SYLVESTER M.** Sunhedsforhold. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 2, p. 161-78, illus.) **Title tr.:** Health conditions.

Author notes living conditions of aboriginal Greenlanders, reviews the comparatively recent appearance of contagious diseases (smallpox, scarlet fever, whooping cough, infantile paralysis, measles and others); discusses (in more detail) tuberculosis and venereal diseases; and describes the present-day health services in Greenland, with a few statistics.

**Copoly seen:** DSI-M.

**SAYLOR, ROBERT,** see Townsend, J. G., & others. Tuberculosis control Indians. 1941. No. 26789.

**25902. SBORNIK** posvâshchenniy nauchnoy defâtel'nosti pochetnogo chlena Akademii nauk SSSR, zaslužennogo defâtelâ nauki i tekhniki, Nikolai Mikhailovicha Knipovicha (1885-1939). Moskva-Leningrad, Pishhepromizdat, 1939. 411 p., port., illus., maps. (Vsesoûznyy nauchno-issledovatel'skii institut morskogo rybnogo khozâistva i okeanografii (VNIRO)) **Title tr.:** Volume in honor of the scientific activity of Nikolai Mikhailovich Knipovich, an honored member of the Academy of Sciences of the U.S.S.R. and an honored worker in science and technique.

Contains papers (in Russian) by various authors of which the following relate to the North: Polveka nauchnoy i obshchestvennoy defâtel'nosti N. M. Knipovicha (A half-century of the scientific and public activities of N. M. Knipovich), p. 5-28: a bio-bibliographical sketch, with data on the noted marine fisheries biologist (1862-1939) who contributed largely to the development of the Murmansk Biological Station and northern fisheries research, with outline of his investigations

in the White, Barents and Kara Seas (1887-1901, 1932-35), and a review of his principal work in zoology, ichthyology, hydrobiology and oceanography; a bibliography of his publications (164 items) is appended and a summary in English, (p. 13-19) of the paper itself.

BERG, L. S. Boreal fishes in the Barents Sea, p. 207-208.

CHAIANOVA, L. A. Food of the White Sea herring, p. 279-99.

DOROFEEV, S. V. Relationship of age groups of seals as indicator of the conditions of the stock, p. 369-82.

ESIPOV, V. K. On systematics of polar plaice, p. 167-76.

FREIMAN, S. I. The migration of the Greenland seal, p. 353-68.

IL'IN, B. S., and V. I. Pevzner. New data on the White Sea cod species, p. 316-34.

MANTEIFEL', B. P. The plankton of one of the bays on the western part of the Murman coast, p. 87-98.

PRAVDIN, I. F. *Salmo salar morpha relictus* (Malmgren), p. 209-214.

RYZHENKO, M. I. The larvae and fry of the Murman herring, p. 394-410.

SOLDATOV, V. K. Some new or rare species of fishes of our northern seas, p. 151-66.

Each of these papers (excepting the first) appears in this Bibliography under its author's name. **Copy seen:** MH-Z.

SCARFF, JOHN E., see Davis, L., & others. High altitude frostbite. 1943. No. 21370.

ŠCEDRINA, Z. G., see SHCHEDRINA, Z. G.

25903. SCHAANNING, HANS THOMAS LANGE, 1878- . Bidrag til sidensvansens (*Ampelis garrulus*, Lin.) biologi og morfologi. (Dansk ornithologisk forening. Tidsskrift, 1916-18, pub. 1917. Årg. 11, hefte 1, p. 17-37, illus.) **Title tr.:** A contribution to the biology and morphology of the waxwing (*Ampelis garrulus*, Lin.)

**Contains** a study of this bird, inhabiting northern Scandinavia (Finnish and Swedish Lapland), with tables of wing dimensions (male, female and young birds), size and shape of eggs, notes on life cycle, propagation, phenology and distribution. **Copy seen:** MH-Z.

25904. SCHAANNING, HANS THOMAS LANGE, 1878- . Norsk fugle-register.

En systematisk ordnet navnefortegnelse over Norges fugle og deres utbredelse hos os tilkjemmed samtlige literaturnavne i tiden 1599-1912. (Bergen, Norway. Museum. Aarbok, 1913, no. 6, p. 1-143) **Title tr.:** Norwegian bird register. A systematically arranged list of Norwegian bird names and data on the bird distribution with names recorded in literature from 1599 to 1912.

**Contains** a systematic list of 300 species of birds inhabiting Norway, with a prevalent vernacular name, Latin name and a list of all known localities with local names; dates of collection and brief data on distribution; a bibliography (285 items) and a systematic index of birds, p. 133-43; includes many species native to northern regions of Norway. **Copy seen:** MH-Z.

25905. SCHAANNING, HANS THOMAS LANGE, 1878- . Østfinmarkens fuglefauna. Ornithologiske meddelelser vedrørende trakterne om Varangerfjorden, spesielt Sydvarangers fauna i aarene 1900-1906. (Bergen, Norway. Museum. Aarbok 1907, no. 8, p. 1-97, 3 plates)

**Title tr.:** Bird fauna of eastern Finnmark. Ornithological report on the Varanger Fjord region, especially the fauna of Sydvaranger in the years 1900-1906.

**Contains** the results of the author's observations carried out during 1900-1906 (mostly in Sydvaranger) with a list of 172 species of birds and data on their biology, ecology and phenology; a list of 115 species observed every year, p. 6-7, another list of 24 species arriving every other year, and 32 appearing only occasionally, p. 7-8; a table of 67 species of migratory birds and the dates of their passing over Øvre Pasvik (69° N.), p. 9-13. **Copy seen:** MH-Z.

25906. SCHAANNING, HANS THOMAS LANGE, 1878- . Om endel nye fugler for Spitsbergen-området. (Norsk ornithologisk tidsskrift, 1923. Serie 1, no. 4, p. 221) **Title tr.:** On some birds new for the Spitsbergen region.

Author adds nine species to the birds recorded from Svalbard in his *Tabellarisk oversikt av Norges fugler*, 1921, q. v.

**Copy seen:** DI.

25907. SCHAANNING, HANS THOMAS LANGE, 1878- . Revidert oversikt av Norges fugler, inclusive Svalbards og Jan Mayens fauna. (Norsk ornithologisk tidsskrift, 1930. ser. 3,

no. 11-12, p. 277-91, tables, map) **Title tr.:** Revised summary of Norwegian birds including the fauna of Svalbard and Jan Mayen.

Seventy-nine species are indicated for Jan Mayen and Svalbard and nearly 300 for northern Norway.

**Copy seen:** DI.

**25908. SCHAANNING, HANS THOMAS LANGE, 1878-** . "Ring-fugler" VIII. (Norsk ornithologisk tidsskrift, 1930. ser. 3, no. 11-12, p. 264-68) **Title tr.:** Banded birds VIII.

One of a series of reports on recoveries in Norway of birds which had been banded earlier, in different parts of northern Europe including Lapland.

**Copy seen:** DI.

**25909. SCHAANNING, HANS THOMAS LANGE, 1878-** . Tabellarisk oversikt av Norges fugler. (Norsk ornithologisk tidsskrift, 1921. ser. 1, no. 1, p. 8-24, incl. tables) **Title tr.:** Tabular summary of Norwegian birds.

Lists over 300 species and subspecies, including 59 for Svalbard and several hundred for arctic Norway.

**Copy seen:** DI.

**25910. SCHAANNING, HANS THOMAS LANGE, 1878-** . Vårtrek- ket i Øvre Pasvik, Sørvaranger 1908, 1910 og 1911. Tillegg til Øst-Finmarkens fuglefauna. (Norsk ornithologisk tidsskrift, 1926. ser. 2, no. 7, p. 160) **Title tr.:** Spring migration in Upper Pasvik, South Varanger 1908, 1910, and 1911. Contribution to the avifauna of East Finnmark.

Table of 75 bird species showing data of arrival in each year mentioned, with note on data of break-up of ice.

**Copy seen:** DI.

**25911. SCHÄNNING, TOROLV.** Ornithologiske nyheter fra Øvre-Pasvik i Øst-Finnmark. (Norsk ornithologisk tidsskrift, 1935. ser. 4, no. 14-15, p. 119) **Title tr.:** Ornithological news from Upper Pasvik, East Finnmark.

Note on six bird species of interest.

**Copy seen:** DI.

**25912. SCHÄNNING, TOROLV.** Vår- trekket i Øvre-Pasvik, Øst-Finnmark i 1931 og 1932. (69°10' N. B.). (Norsk ornithologisk tidsskrift, 1932. ser. 4, no. 13, p. 28-29) **Title tr.:** Spring migration in Upper Pasvik, East Finnmark in 1931 and 1932. (69°10' N.).

Dates of arrival of 27 species of birds for each of the two years mentioned.

**Copy seen:** DI.

**25913. SCHAEFER, VINCENT J.** The development of a snow classification system. (International Geodetic and Geophysical Union. Association of Scientific Hydrology. Assemblée générale d'Oslo, 1948. Procès-verbaux. t. 2. Travaux de la Commission de la Neige et des Glaciers, pub. 1950? p. 157-159, illus.)

"The various types of precipitation which occur during snow and sleet storms are classified into 9 basic forms. It is suggested that 2 classifications be used to differentiate more distinctly between snow crystals. One classification would include only the solid precipitation common to snow storms and the other the effects and processes related to the snow surface."—SIPRE.

**Copy seen:** DGS; DWB.

**25914. SCHAEFER, VINCENT J.** The formation of ice crystals in the laboratory and in the atmosphere. (Chemical review, Apr. 1949. v. 44, p. 291-320, illus., tables, graphs, diagrs. Also pub. in: International Geodetic and Geophysical Union. Association of Scientific Hydrology. Assemblée générale d'Oslo, 1948. Procès-verbaux des seances. t. 2. Travaux de la Commission de la Neige et des Glaciers, pub. 1950? p. 186-210, illus.)

"Aircraft radio static during snowstorms is produced when the plane becomes charged by snow particles striking and rubbing the plane's metal surface. The discharging accounts for the static noise. Two types of snowstorms, cross current and positive current, can be identified in terms of electrical properties. Snow particles have been classified into nine different types, according to shape. Plastic replicas of snow crystals can be made by allowing the snow particles to fall on plates coated with a dissolved resin. The snow and solvent are allowed to evaporate, and an impression is left in the resin. Sublimation nuclei are detected in the free air by use of cold chambers and supercooled films supported on rings or on their plastic films. Procedures for simulating natural clouds in the laboratory are given. Not all dust particles in clouds act as nuclei for formation of ice crystals. Only snow which would have eventually fallen can be made to form and precipitate when seeding natural clouds with dry ice or

Ag I. Overseeding will cause the formation of too many small crystals, and will produce only an ice cloud."—SIPRE. Bibliography (20 items).

**Copy seen:** DGS; DLC.

**25915. SCHAEFERS, EDWARD ALBERT, 1921-** The John N. Cobb's shellfish explorations in certain South-eastern Alaskan waters, spring and fall of 1950. (A preliminary report). (Commercial fisheries review, Apr. 1951. v. 13, no. 4, p. 9-19, illus., 3 maps)

Types of gear and equipment are described; size of shrimp catches is given with analyses of possible commercial shrimp fisheries for specific places, as surveyed near Ketchikan, Mar. 24-Apr. 11, and between Baranof and Chichagof Islands, Oct. 30-Dec. 9.

**Copy seen:** DF; DLC.

**25916. SCHANTZ, MAX, von.** Beitrag zur Kenntnis dreier *Phthorimaea*-Arten (Lep., Gelechiidae). *Phthorimaea hackmani* n. sp. (Notulae entomologicae, 1952. v. 32, no. 1-3, p. 15-22, illus.) **Title tr.:** A contribution to the knowledge of three *Phthorimaea* species. (Lep. Gelechiidae). *Phthorimaea hackmani* n. sp.

Contains descriptions of three species of moths (one described as new) including *Phthorimaea strelciella* from Inari Lappmark and *P. diabolicella* native to Finnish Lapland and Kuusamo.

**Copy seen:** MH-Z.

**25917. SCHANTZ, MAX, von.** *Cidaria flavicincta* Hb. (Lep., Geometridae) ny for landets fauna. (Notulae entomologicae, 1952. v. 32, no. 4, p. 164-66, illus.) **Title tr.:** *Cidaria flavicincta* Hb. (Lep. Geometridae) new to the fauna of Finland.

Contains a report of the find of a boreo-alpine geometrid, *Cidaria flavicincta*, collected by the author on Anjaloodi Mountain in the Kilpisjärvi area in northwestern Finnish Lapland. It is apparently identical with subsp. *septentrionalis*, native to northern Norway, and never recorded from Finland. Summary in English.

**Copy seen:** MH-Z.

**25918. SCHANTZ, MAX, von, and H. BRUUN.** Lepidopterologiska iakttagelser i nordvästra Enontekis (Le.) 1946-1948. (Notulae entomologicae, 1951. v. 31, no. 3-4, p. 109-118) **Title tr.:** Observations on Lepidoptera in the northwestern Enontekis region (Le) 1946-1948.

Contains a study of the geographical distribution of butterflies and moths, carried out by the authors in this part of Finnish Lapland in 1946-48, with tabulated data on distribution of 198 species of lepidoptera in five subdivisions of this region, p. 112-16.

**Copy seen:** MH-Z.

**25919. SCHANTZ, MAX von.** *Tinea montelliella* n. sp. (Lep., Tineidae) aus Fennoskandien. (Notulae entomologicae, 1951. v. 31, no. 1-2, p. 18-20, illus.) **Title tr.:** *Tinea montelliella* n. sp. (Lep. Tineidae) from Fennoscandia.

Contains a diagnosis of a new moth, *Tinea montelliella* n. sp. captured in Muonio in northeastern Finnish Lapland in the summer of 1948.

**Copy seen:** DA; MH-Z.

**SCHANTZ, MAX von, see also Bruun, H., & M. v. Schantz.** Till kännedom om *Brenthis improba improbula*. 1950. No. 20987.

**25920. SCHATZ, HEINRICH.** Ein Föhnsturm in Nordostgrönland. (Polarforschung, 1951. Bd. 3, Jahrg. 21, p. 13-14) **Title tr.:** A foehn storm in northeast Greenland.

Detailed description of a five-day storm experienced by the German Weather Service party on Shannon Island, Feb. 20-24, 1944.

**Copy seen:** DGS.

**25921. SCHATZ, HEINRICH.** Die Katastrophe der "Coburg" im Eis vor Shannon am 18.-19. November 1943. (Polarforschung, 1950, pub. 1951. Bd. 2, Jahrg. 20, p. 336-38) **Title tr.:** The wreck of the *Coburg* in the ice near Shannon Island, Nov. 18-19, 1943.

Eye-witness' account of the storm and ice jam on the East Greenland coast, causing the destruction of the vessel *Coburg*, attached to the German Weather Station on northeast Greenland, 1943-44.

**Copy seen:** DGS.

**25922. SCHAUBERGER, E.** Zur Kenntnis der paläarktischen Harpalinen. (Koleopterologische Rundschau, 1929-30, pub. 1930. Bd. 15, no. 5-6, p. 193-209) **Title tr.:** A contribution to the knowledge of palaearctic species of the genus *Harpalus*.

Contains descriptions of the new species and aberrations of coleopterous genus *Harpalus*, and a key to the species of subgenus *Stenolophus*; includes *S. ochropezus* native to Kamchatka Peninsula.

**Copy seen:** MH-Z.

**25923. SCHEEL, HENNING.** Natjere, *Nycticorax griseus* og sjagger, *Turdus pilaris*, nye for Grønland med bemaerkninger om forskellige sammesteds sjældne arter. (Dansk ornithologisk forening. Tidsskrift, 1927. Årg. 21, hæft. 3-4, p. 76-81) **Title tr.:** *Nycticorax griseus* and *Turdus pilaris* new to Greenland, with notes on some other rare species.

Contains descriptive notes and dimensions on the night heron and thrush, new to the ornithological fauna of Greenland, and critical notes on seven species of other birds rare there; a second list of 15 rare species recorded by H. Petersen.

**Copy seen:** MH-Z.

**25924. SCHEERPELTZ, OTTO.** Eine neue Art der Gattung *Trogophloeus* Mannerh. aus Nord-Norwegen (Col. Staphylinidae). (Norsk entomologisk tidsskrift, 1950. Bd. 8, hefte 1-3, p. 77-81, illus.) **Title tr.:** A new species of the genus *Trogophloeus* Mannerh. from northern Norway.

Contains a diagnosis of a new species of rove beetles, *Trogophloeus strandi* n. sp. collected in Målselv region, northern Norway by A. Strand, and a comparison with related species.

**Copy seen:** DA; MH-Z.

**25925. SCHEERPELTZ, OTTO.** Die paläarktischen Arten der Gattung *Ancyrophorus* Kr. (Col. Staphylinidae). (Norsk entomologisk tidsskrift, 1950. Bd. 8, hefte 1-3, p. 53-76, illus.) **Title tr.:** Palaearctic species of the genus *Ancyrophorus* Kr. (Col. Staph.).

Contains a table for the determination of 17 palaearctic species of rove beetles of the genus *Ancyrophorus*, with brief data on their distribution in Europe, Asia (Siberia and Turkestan) and Africa; five new species are described in the second part of this paper, including *A. strandi* n. sp. native to Målselv, northern Norway and Finnish Lapland.

**Copy seen:** DA; MH-Z.

**25926. SCHEFFER, JOHANNES, 1621-1679.** The history of Lapland, wherein are shewed the original manners, habits, marriages, conjurations, &c. of that people. Oxford, At the Theatre, 1674. 2 p. 1., 147, [1] p., front., illus., fold. map

English translation of Scheffer's *Laponia* 1673, 378 p. (copy at ICN, MH, NN), omitting quotation of "narratives . . . put down at great length in the very words of his authors." Also published

in French (1678) and German (1675), and another English (1751) translation.

On the basis of literature, records and discussion with Lapps, the author, professor at Uppsala University, gives a brief account of history and geography of Swedish Lapland, followed by an extensive study of Lappish religious, social and material culture: chapters on their pagan and christian beliefs and practices, government, trading customs and fairs, language; houses, diet and clothing; hunting, weapons, handicrafts and occupations; marriage and death customs, child-rearing; their reindeer, animal and plant life of the Lappish habitat. Includes throughout wood-cut illustrations.

**Copy seen:** DLC.

**25927. SCHEFFER, VICTOR BLANCHARD, 1906-** . Cryptorchid fur seals. (American midland naturalist, Nov. 1951. v. 46, p. 646-48, illus.)

Describes behavior, body proportions, dentition and pelage of males of *Callorhinus ursinus* with infantile testes (cryptorchidism), from the Pribilof Islands.

**Copy seen:** DGS; DSI-M.

**25928. SCHEFFER, VICTOR BLANCHARD, 1906-** . Experiments in the marking of seals and sea-lions. [Washington, 1950]. p. 1., 33 p., illus. (U. S. Fish and Wildlife Service. Special scientific report: Wildlife. no. 4) Mimeographed.

Report on usefulness and techniques of branding, tagging, shearing, painting and punching seals; results (at time of writing, available only for the Alaska fur seal) showed over 90 per cent of adult males return to their native rookery. Bibliography (28 items).

**Copy seen:** DL.

**25929. SCHEFFER, VICTOR BLANCHARD, 1906-** . The food of the Alaska fur seal. (North American Wildlife Conference. 15th, Mar. 6-9, 1950, San Francisco. Transactions, 1950. p. 410-21, illus.)

"Summary of current information on the food of" *Callorhinus ursinus* (L.), taken from accounts of naturalists during the past fifty years; includes description of feeding habits, analyses of stomach contents, and food habits in captivity. Bibliography (20 items).

**Copy seen:** DLC.

**25930. SCHEFFER, VICTOR BLANCHARD, 1906-** . Growth layers on the teeth of Pinnipedia as an indication of

age. (Science, Sept. 1950. v. 112, no. 2907, p. 309-311, illus.)

**Contains** report of a study made on the Alaskan fur seal, *Callorhinus ursinus* (L.) on the Pribilof Islands, Bering Sea. The right, upper canine, or "fang" was selected for study, since its growth-ridges are most clearly displayed. The tooth, its parts and growth are described. Only the root grows in length, the pulp depositing dentine or ivory in the root canal until, approximately at the age of 10, the canal is filled. Deposition is strongest in the winter and creates one ridge (visible on the outside of the root) each winter. The growth ridges represent accurately the age up to four, exceptionally to seven years. A preliminary survey of teeth from other pinnipeds suggests that similar conditions exist among them. Growth marks on other hard parts of mammals are briefly reviewed. Bibliography (3 items).

**Copy seen:** DA.

**25931. SCHEFFER, VICTOR BLANCHARD, 1906-** . Growth of the testes and baculum in the fur seal, *Callorhinus ursinus*. (Journal of mammalogy, Nov. 1950. v. 31, p. 384-94, incl. 2 plates, diags.)

Discussion of "certain gross aspects of the sexual development" of male seals, based on studies by the U. S. Fish and Wildlife Service (beginning in 1940) on the anatomy and behavior of marked, known-age Alaska fur seals. Conclusion notes a steady rate of growth of the baculum; that distribution of bacular lengths is evidence of the distribution of ages in commercial killings; and that baculum samplings may become an important new tool in analyzing the age composition of the killings. Bibliography (7 items).

**Copy seen:** DSI-M.

**25932. SCHEFFER, VICTOR BLANCHARD, 1906-** . A mammoth tooth from Alaska. (Nature magazine, Jan. 1952. v. 45, no. 1, p. 6, illus.)

**Contains** a note on a mammoth cheek-tooth weighing nearly four pounds, found on the beach of St. Paul Island, Alaska. Mammoth remains have not been found on this island since 1890, and are rare on the Pribilof Islands. The animal's origin from the mainland and possible routes are discussed.

**Copy seen:** DLC.

**25933. SCHEFFER, VICTOR BLANCHARD, 1906-** . Measurements of sea otters from Western Alaska. (Journal of mammalogy, Feb. 1951. v. 32, p. 10-14)

Results of study of 120 specimens of *Enhydra lutris*, mostly skulls, showing measurements for adults of both sexes, newborn and one-year-old young, sex differences, dentition, etc. Bibliography (4 items). **Copy seen:** DGS; DSI-M.

**25934. SCHEFFER, VICTOR BLANCHARD, 1906-** . Reflections on the skull of the sea otter. (Nature magazine, Mar. 1950. v. 43, p. 151-52, illus.)

Notes on the purple color retained by the skull and on its anatomy.

**Copy seen:** DGS; DSI-M.

**25935. SCHEFFER, VICTOR BLANCHARD, 1906-** . The rise and fall of a reindeer herd. (Scientific monthly, Dec. 1951. v. 73, no. 6, p. 356-62, illus., tables, diags.)

**Contains** a study of reindeer placed in 1911 by the U. S. Government on St. Paul and St. George, of the Pribilof Islands. Their numerical increase, very spectacular on St. Paul Island, and subsequent decline 1930-1950, are traced and analyzed. Decline in the amount of lichens, due to the excessive number of animals ("at least three times the carrying capacity of the range") is believed to be the main cause of the decline of the St. Paul herd; the factors responsible for the less abrupt decline on St. George are not quite clear. Bibliography (6 items).

**Copy seen:** DA.

**25936. SCHEFFER, VICTOR BLANCHARD, 1906-** . Sea birds eaten by Alaska cod. (Murrelet, Jan.-Apr. 1942. v. 23, p. 17)

Cites cases of birds found in stomach contents of *Gadus macrocephalus* in Bering Sea and Aleutian waters.

**Copy seen:** DSI-M.

**25937. SCHEFFER, VICTOR BLANCHARD, 1906-** . The striped dolphin *Lagenorhynchus obliquidens* Gill 1865, on the coast of North America. (American midland naturalist, Nov. 1950. v. 44, p. 750-58, illus.)

List with all available data from 32 records of this species occurring in waters between Valdez, Alaska and Mexico; detailed description of the species and notes on food and reproduction; with a bibliography (20 items).

**Copy seen:** DGS; DSI-M.

**25938. SCHEFFER, VICTOR BLANCHARD, 1906-** , and F. WILKE. Validity of the subspecies *Enhydra lutris nereis*, the southern sea otter. (Wash-

ington Academy of Sciences. Journal, Aug. 1950. v. 40, p. 269-72, illus.)

Detailed discussion of the California species, with comparative data and remarks on the sea otters of Alaska, the Aleutian and Commander Islands.

**Copy seen:** DGS; DLC.

**25939. SCHEFFER, VICTOR BLANCHARD, 1906-**, and others. Vitamin A in selected pale-colored livers of Alaska fur seals, 1948. Washington, U. S. Govt. Print. Off., 1950. [il], 8 p. (U. S. Fish and Wildlife Service. Special scientific report—Fisheries no. 32) Other authors: Neva L. Karriek, and F. Bruce Sanford.

Contains a study of 51 livers of the Alaska fur seal (*Callorhinus ursinus*) selected for their pale color. They were found to contain 2.4 millions "spec" units of vitamin A per pound, and 3.9 per cent oil; the vitamin A potency of the liver oil ranged from 4,170 to 634,000 units; the paleness of the liver appears to be correlated with high vitamin A potency and high oil content. Bibliography (3 items).

**Copy seen:** DI.

**25940. SCHEFFER, VICTOR BLANCHARD, 1906-**. Winter injury to young fur seals on the northwest coast. (California fish and game, Oct. 1950. v. 36, no. 4, p. 378-79, illus.)

Analysis of causes of an unusually high mortality among yearling seals, *Callorhinus ursinus*, based on over 700 bodies washed ashore along the Washington-Oregon coast in winter of 1950, including some tagged as seal pups on Pribilof Islands in 1949. Author concludes (from U. S. Weather Bureau data) that severe prolonged storms were mainly responsible.

**Copy seen:** CaMAI; DSI-M.

**SCHEIN, MARCEL, 1902-**, see Weaver, A., & M. Schein. High altitude cosmic ray work. 1949. No. 27283.

**25941. SCHELL, IRVING ISRAEL, 1906-**. Foreshadowing the severity of the iceberg season off Newfoundland. (Royal Meteorological Society, London. Quarterly journal, Apr. 1952. v. 78, no. 336, p. 271-73, 2 tables)

Contains a discussion of the view, expressed by Sir G. Walker (*Arctic Bibliography*, No. 19082) on the apparent breakdown of relationships in world weather, which have figured in foreshadowing the severity of iceberg seasons off Newfoundland. The author, whilst admitting that some factors in apparent

control of the ice have substantially weakened, thinks that others have strengthened in the recent period. Bibliography (3 items). **Copy seen:** DLC.

**25942. SCHELL, IRVING ISRAEL, 1906-**. On some temperature trends in Iceland, northern Europe, and north-eastern U.S.A. associated with prolonged periods of severe and light ice off Iceland. Woods Hole Oceanographic Institution, Contract N6onr-27705, Technical Report, Nov. 1950. 43 p. tables, chart.

"Annual mean temperatures have been smoothed by obtaining 10-year averages, and these data for 11 decades (1831-1940) and one incomplete decade (1941-1949) have been compiled for Archangel, Bergen, Copenhagen, Edinburgh, Helsinki, Leningrad, Moscow, New Haven, Oslo, Stockholm, Stykkisholm and Vardø. These temperatures have been correlated with ice data for seas around Iceland, Archangel and Vardø for current, subsequent and previous decades. No relation could be found between ice conditions and temperatures of the previous decade but temperature anomaly in decade subsequent to severe ice conditions was generally negative, and after light ice, positive. An attempt is made to explain these relations on the basis of currents of the North Atlantic and Arctic. Effect of cities on temperature records over long periods is discussed in appendix."—*Meteorological abstracts and bibliography*, July 1952. v. 3, no. 7, p. 716-17. Bibliography.

**Copy seen:** DWB.

**25943. SCHELL, IRVING ISRAEL, 1906-**. Polar ice as a factor in seasonal weather. (In: U. S. Weather Bureau. Reports on critical studies of methods of long-range weather forecasting, pub. as: Monthly weather review, Supplement, no. 39, 1940. W. B. no. 1268, p. 26-51)

"Summary and discussion of the work of numerous investigators."—*Meteorological abstracts and bibliography*, Jan. 1951. v. 2, no. 1, p. 45.

**Copy seen:** DWB.

**25944. SCHELL, IRVING ISRAEL, 1906-**. The problem of the iceberg population in Baffin Bay and Davis Strait and advance estimate of the berg count off Newfoundland. (*Journal of glaciology*, Mar. 1952. v. 2, no. 11, p. 58-59)

Contains discussion of factors which affect the forecasting of the number of

icebergs off Newfoundland from iceberg population in the Baffin Bay - Davis Strait waters, including recent estimates made on the basis of a meteorologic formula. **Copy seen:** DLC.

**25945. SCHELL, IRVING ISRAEL, 1906-**. Stability and mutual compensation of relationships with the iceberg severity off Newfoundland. (American Geophysical Union. Transactions, Feb. 1952. v. 33, no. 1, p. 27-31, 4 tables)

"Previous studies of different authors show that a relationship exists between the air pressure gradient, Labrador-South Greenland and the iceberg severity off Newfoundland. The author gives a physical interpretation and makes a stability test of this relationship. Other relationships are examined. A formula, based on data prior to 1927 and considering four factors, is derived with  $r=0.80$ . This formula is tested for the period 1927-1951. A good agreement is found, especially for years with a small number of icebergs."—*Meteorological abstracts and bibliography*, May 1952. v. 3, p. 453-54. Bibliography (8 items).

**Copy seen:** DLC; DWB.

**25946. SCHENK, KARL.** Die Funkausbreitung als Hilfsmittel in der Polarwetterforschung. (Polarforschung, 1950, pub. 1951. Bd. 2, Jahrg. 20, p. 332-36) **Title tr.:** Radio wave propagation as an aid to polar weather research.

Discussion of radio waves (particularly in the middle wave range of the ordinary broadcasting band) as they are influenced by ionospheric conditions and solar corpuscular radiation influence on the entire geomagnetic field, with special reference to meteorological conditions.

**Copy seen:** DGS.

**25947. SCHENKLING, SIGMUND, 1865-**. Faunistischer Führer durch die Coleopteren-Literatur. Die wichtigste Käfer-Literatur nach geographischen Gebieten geordnet. Bd. I, Europa. Neubrandenburg (Meckl.), Verl. G. Feller, 1938-39. 320 p. (Lieferung 1, p. 1-64; 2, p. 65-128; 3, p. 129-192, pub. 1938; 4, p. 193-256; 5, p. 257-320, pub. 1939) **Title tr.:** Faunistic guide through literature on Coleoptera. The most important literature on beetles arranged by geographic regions.

Contains a bibliography of separate works and magazine articles on beetle fauna of Europe arranged by the regions, including Scandinavia in general, Norway

and Sweden, p. 113-37, Lapland and Finland, p. 149-60, and northern Russia, p. 175-80; these sections contain many works with arctic material; other parts of this guide, supposed to be published in five volumes, have not been located.

**Copy seen:** MH-Z.

**25948. SCHERR, GEORGE H.** The effect of environmental temperature on cortisone toxicity for mice. (Science, Dec. 12, 1952. v. 116, no. 3025, p. 685, table)

Contains a report on mice kept for eight days at temperatures ranging from  $37^{\circ}\text{C}$ . to  $-7^{\circ}\text{C}$ ., and inoculated during the experiment with cortisone acetate. The toxic effects of the drug were enhanced by increased environmental temperature, while low temperatures ( $-5^{\circ}$  to  $7^{\circ}$ ) eliminated the toxic effects; all treated mice, male and female, survived the eight-day incubation period, whereas controls were all dead by the second day. A clinical use of this behavior is suggested.

**Copy seen:** DLC.

**25949. SCHIEFNER, FRANZ ANTON, 1817-1879.** Ob izdanii posmertnykh sochinenii uchenago puteshestvennika akademii, professora Kastrena. (Akademiia nauk SSSR. Uchenyia zapiski, 1852. t. 1, vyp. 3, p. 366-70) **Title tr.:** On the publication of the posthumous works of the Academy's scientific traveler, Professor Castrén.

Contains report on Schiefner's visit to Helsingfors where he saw Castrén's unpublished mss. which could be divided into two categories: (1) linguistic material, and (2) his travel accounts and lectures on Finnish ethnography and mythology. The Academy decided to translate into German and publish Castrén's works. The editorial work was undertaken by Schiefner, Sjögren and Bøhtlingk, and the first volume of *Nordische Reisen* and of *Versuch einer Ostjakischen Sprachlehre*, were published in 1849. This paper includes about two printed pages of quotations in Russian from the foreword to Castrén's *Sprachlehre*.

**Copy seen:** DLC.

**25950. SCHILLER, EVERETT L.** Studies on the helminth fauna of Alaska, I. Two new cestodes from Sabine's gull (*Xema sabini*). (Journal of parasitology, June 1951. v. 37, p. 266-72, incl. 2 plates)

Descriptions of *Haploparaxis xemae* and *Hymenolepsis haldemani*; key to

genus *Haploparaxis* and discussion of morphology of the worms found in gulls at Pt. Barrow, Alaska and near Admiralty Bay east of Pt. Barrow. Bibliography (8 items). **Copy seen:** DSI-M.

**25951. SCHILLER, EVERETT L.** Studies on the helminth fauna of Alaska, V. Notes on Adak rats (*Rattus norvegicus* Berkenhout) with special reference to helminth parasites. (Journal of mammalogy, Feb. 1952. v. 33, p. 38-49, illus., 2 plates, sketch map).

Contains report of a study conducted, in conjunction with animal-borne disease investigations by the Arctic Health Research Center, U. S. Public Health Service, Anchorage, Alaska. It was made during May 1950 with the aim to obtain data on the helminth parasites of the brown rat, which apparently became established at Adak in 1946. 224 rats were examined and five species of helminth worms were recovered from 122 animals, including *Trichinella spiralis* which infect 54 per cent of the rats. Detailed information on these helminth infections is presented, together with an ecology of the local rats, especially their relationship to other introduced mammals; suggestions as to extermination and control are made. Bibliography (8 items). **Copy seen:** DGS.

**25952. SCHILLER, EVERETT L.** Studies on the helminth fauna of Alaska, VI. The parasites of the emperor goose (*Phalacrocorax auritus* L.) with the description of *Hymenolepis philactes*, n. sp. (Journal of parasitology, Apr. 1951. v. 37, p. 217-20, incl. plate).

Record of three species of the cestode *Hymenolepis* collected from 16 of "probably the least known of American geese," during Aug.-Sept. 1950 on St. Lawrence Island, with discussion of morphology. Bibliography (5 items).

**Copy seen:** DSI-M.

**25953. SCHILLER, EVERETT L.** Studies on the helminth fauna of Alaska, VIII. Some cestode parasites of the Pacific kittiwake (*Rissa tridactyla* Ridgway) with the description of *Haploparaxis rissae* n. sp. (Helminthological Society of Washington. Proceedings, 1951. v. 18, no 2, p. 123-25, illus.)

Contains record and description of some species of tapeworms found in 37 kittiwakes collected at St. Lawrence Island (Bering Sea). A hitherto unknown species, found in the intestine of a single

host, is described. Bibliography (3 items).

**Copy seen:** DSG.

**25954. SCHILLER, EVERETT L.** Studies on the helminth fauna of Alaska, IX. The cestode parasites of the white-fronted goose (*Anser albifrons*) with the description of *Hymenolepis barrowensis*, n. sp. (Journal of parasitology, Feb. 1952. v. 38, no. 1, p. 32-34, plate)

Contains a description of a new species of tapeworm, found in the small intestine of geese near Point Barrow, Alaska; 37 birds were examined during spring of 1950 and 1951; eight of these were infected with the new parasite; two other known species of *Hymenolepis* were found among the geese. Bibliography (3 items). **Copy seen:** DA.

**SCHILLER, EVERETT L.,** see also Rausch, R. L., & E. L. Schiller. Hydatid disease in Alaska. 1951. No. 25390.

**25955. SCHIMMER, KARL.** Zwei neue Dipteren aus dem Norden und Süden Europas. (Wiener entomologische Zeitung, 1913. Bd. 32, Hefte 7-9, p. 221-22) **Title tr.:** Two new dipters from northern and southern Europe.

Contains a description of *Sericomyia arctica* n. sp. collected by Rangnov in Lapland. **Copy seen:** MH-Z.

**25956. SCHINDLER, GERHARD.** Die Bedeutung der polaren Eismassen. (Polarforschung, 1951. Bd. 3, Jahrg. 21, p. 14-17) **Title tr.:** The significance of the polar ice masses.

Discussion of changes which would be wrought by the melting of the great masses of ice in arctic and antarctic regions; changes in sea level, flooding of present land-masses, change in rotational axis of the earth, and subsequent geodetic and geophysical variations; climatic and biological changes and their effects. Bibliography (20 items). **Copy seen:** DGS.

**25957. SCHINDLER, GERHARD.** In welchen Gebieten und zu welchen Zeiten kann der Mond zirkumpolar sein? (Polarforschung, 1951. Bd. 3, Jahrg. 21, p. 54-56) **Title tr.:** In which regions and at which times can the moon be circumpolar?

Discussion of the moon's positions, phases, etc., in relation to the sun and earth, resulting in its visibility for brief periods only at certain latitudes in the North (and South). **Copy seen:** DGS.

**25958. SCHINDLER, GERHARD.** Polarforschung vor mehr als 200 Jahren. (Polarforschung, 1949, pub. 1950. Bd. 2, Jahrg. 19, p. 280-281) *Title tr.:* Polar research more than 200 years ago.

Note on the narrative (P. L. M. de Maupertius *La figure de la terre*, Paris, 1738, q. v.) of a French expedition in 1736-37 to measure the arc of the meridian at the Arctic Circle. Includes quotation of the French scientist's remarks on the cold and mosquitoes at his party's base near Torneå in Lapland.

*Copy seen:* DGS.

**25959. SCHINDLER, GERHARD.** Probleme der Polarforschung im Sonnensystem. (Polarforschung, 1948, pub. 1950. Bd. 2, Jahrg. 18, p. 42-44, i. e., p. 238-40) *Title tr.:* Problems of polar research within the solar system.

Discussion of polar regions on the sun, moon, Mercury, Venus, Mars, Jupiter, Saturn and Uranus. *Copy seen:* DSG.

**25960. SCHLACK, CARL A., and S. R. HOWELL.** Test on the prevention of fracture of glass containers due to freezing of their liquid contents. (United States naval medical bulletin, 1947. v. 47, p. 857-60, table)

Contains description of the procedure of experiments and test, and their results, with conclusions: containers of 30-250 cc. break less frequently than larger ones, when filled to 80 per cent of capacity; cylindrical containers of less than 120 cc. capacity burst less frequently on freezing than do other shapes; position of container apparently plays no role in breakage. *Copy seen:* DSG.

**25961. SCHMAUSS, AUGUST.** Alfred Wegeners Leben und Wirken als Meteorologe. (Annalen der Meteorologie, 1951. Bd. 4, no. 1-6, p. 1-13) *Title tr.:* Alfred Wegener's life and work as a meteorologist.

"An address to celebrate Wegener's 70th birthday (born Nov. 1, 1880). After a brief reference to his early life and work at Lindenberg, it describes his various expeditions to Greenland, with extracts from the reports and comments by other meteorologists. Other activities are also summarized, with references to his more outstanding publications."—*Meteorological abstracts and bibliography*, Mar. 1952. v. 3, p. 196.

*Copy seen:* DWB; MH-BH.

**25962. SCHMELTZER, KURT.** Die Hütte im ewigen Schnee. Aufzeich-

nungen meines Urahns Martin Leukefeld von der ersten Überwinterung europäischer Seeleute im Polareis. Zürich, Rascher Verlag, 1947. 183 p., 16 illus. *Title tr.:* The hut in the eternal snow. Notes of my ancestor Martin Leukefeld from the first wintering of European seamen in the polar ice. Translated into English as *The long arctic night*, 1951, q. v.

Contains a story supposedly as recorded by a participant of Willem Barendz's voyage to Novaya Zemlya and the wintering of his party there in 1596-97. Includes description of the trip, and life aboard ship; landing on Novaya Zemlya; life on land; encounters with polar bears and other animals; life during the arctic night; diseases after consumption of bear liver and some other undefined diseases; the arctic summer; return home.

*Copy seen:* DLC.

**25963. SCHMELTZER, KURT.** The long arctic night. London, Oxford Univ. Press, 1951. 195 p., illus.

Translation by Elizabeth Brommer of *Die Hütte im ewigen Schnee*, 1947, q. v.

*Copy seen:* CaMAI.

**SCHMIDT, P. J.,** see Schmidt, P. H. Über geog. Verbreit. Fische. 1903. No. 26145.

**25964. SCHMIDT, WILHELM.** Das Himmelsopfer bei den innerasiatischen Pferdezüchtervölkern. (Ethnos, Stockholm, 1941. Bd. 7, no. 4, p. 127-48) *Title tr.:* Sacrifices to Heaven among the horsebreeders in the interior of Asia.

Includes occasional references to the Samoyeds (Soyots) and Yakuts (p. 142f.).

*Copy seen:* InU.

**25965. SCHMITZ, HERMANN, 1882-** Die paläarktischen Arten der Gattung *Phora* Latr. Bestimmungsschlüssel und neue Arten. (Konowia, 1927. Bd. 6, Heft 2, p. 144-60, illus.) *Title tr.:* Palaearctic species of the genus *Phora* Latr. A key and new species.

Contains a morphological study of the dipterous genus *Phora*, a key and diagnoses of five new species, including *P. hyperborea* n. sp., native to Finnish Lapland and spreading to the Kola Peninsula.

*Copy seen:* MH-Z.

**25966. SCHMUCKER, THEODOR, 1894-** La distribution des espèces arborescentes de la zone septentrionale tempérée. The tree species of the northern Temperate Zone and their distribution. Berlin-Wannsee, Centre Interna-

tional de Sylviculture, 1942. x, 156 p., 250 maps. (Silvae orbis, no. 4)

The monograph consists of a text, in French, German, English (p. 54-80), Spanish and Italian, and 250 maps. The text has sections on: methods, the area, the systematic units (floristic survey). Each map gives an outline of 1, 2, 3 or more species. Several groups of trees dealt with extend into the arctic region, e. g. some of the conifers (especially pine and fir species), among the leafy trees species of birch and alder. The corresponding maps give a detailed outline of this penetration into the Arctic (e. g. maps no. 3, 4, 11, 19, 22; 33; 36; 69; 63, 64, etc.). Bibliography (23 items).

**Copy seen:** DLC.

**25967. SCHNAKENBECK, W.** Klimaschwankungen in der Arktis beeinflussen die Fischerei. (Umschau, June 1951. Bd. 51, no. 11, p. 324-25, fig.) **Title tr.:** Climate variations in the Arctic influence fishing.

"The penetration of various species of fish into northern seas, far beyond their usual range, is attributed to warming of the polar region. Temperature records for the Netherlands and Norway covering long periods and indicating a noticeable rise in temperature during the last decades, are referred to and those for the Netherlands particularly recommended as they go back to the beginning of the 18th century."—*Meteorological abstracts and bibliography*, July 1952. v. 3, no. 7, p. 727.

**Copy seen:** DLC.

**25968. SCHØYEN, WILHELM MARI-BO, 1844-1918.** Bemaerkninger om enkelte variationer of vore Rhopalocera. (Entomologisk tidsskrift, 1885. Årg. 6, hæft. 1-3, p. 139-44, 214-15). **Title tr.:** Remarks on certain variations of our Rhopalocera.

**Contains** critical notes on seven varieties and aberrations of Scandinavian Rhopalocera, including *Erebia lapponica* ab. *pollux*, a butterfly occurring with typical species in Finnmark, northern Norway. Summary in French.

**Copy seen:** DLC; MH-Z.

**25969. SCHØYEN, WILHELM MARI-BO, 1844-1918.** Bemaerkninger over *Lycaena Argus-Aegon*-Gruppen. (Entomologisk tidsskrift, 1882. Årg. 3, hæft. 1-2, p. 33-62, illus., p. 100-102) **Title tr.:** Remarks on the group *Argus-Aegon* of the genus *Lycaena*.

**Contains** a critical revision of the forms

of the group *Argus-Aegon* of the lepidopterous genus *Lycaena*, a comparative study of *Argus* L. (*aegon* auct) and *Argyrognomon* Bergetr., (*argus* auct) and an enumeration of all forms of the gen. *Lycaena* with synonymy, including *L. argyrognomon* var. *aegidion*, native to Swedish Lapland. Summary in French.

**Copy seen:** DLC; MH-Z.

**25970. SCHØYEN, WILHELM MARI-BO, 1844-1918.** *Bombyx populi* L. fra den arktiske region. (Entomologisk tidsskrift, 1888. Årg. 9, hæft 3, p. 142) **Title tr.:** *Bombyx populi* L. from the arctic region.

**Contains** brief descriptive notes on a moth, *Bombyx populi*, known previously from southern Norway, found in the Saltdalen region of northern Norway (70°20' N.) and a comparison with southern specimens.

**Copy seen:** DLC; MH-Z.

**25971. SCHØYEN, WILHELM MARI-BO, 1844-1918.** *Cidaria dilutata* W. V. (Archiv for matematik og naturvidenskab, 1878, Bd. 3. p. 177-81)

**Contains** a study of geographic distribution in Norway of a geometrid moth, *Cidaria dilutata*, the larva of which is living on birch, beech, elm, oak and other trees and shrubs; it is reported from all regions of Norway, including three northern provinces. **Copy seen:** MH-Z.

**25972. SCHØYEN, WILHELM MARI-BO, 1844-1918.** Nogle eksempler paa insekters masseoptraeden i de sidste par aar. (Entomologisk tidsskrift, 1884. Årg. 5, hæft 1-2, p. 83-87, 94) **Title tr.:** Some examples of the mass appearance of insects in the course of recent years.

**Contains** data on the mass appearance of some insects in Scandinavia, including *Bibio (Hirtea) pomonae* observed in great numbers in Nordland, Norway, in July 1881. Summary in French.

**Copy seen:** DLC; MH-Z.

**25973. SCHØYEN, WILHELM MARI-BO, 1844-1918.** Oversigt over de i Norges arktiske region hidtil fundne Lepidoptera. (Archiv for matematik og videnskab, 1880-81, pub. 1880. Bd. 5, hefte 2, p. 119-228, plate) **Title tr.:** A survey of Lepidoptera hitherto known from the arctic region of Norway.

**Contains** the results of the study of lepidopterous fauna of Norway in the summers of 1878-79, with historical notes, a table of Lepidoptera distribution in

northern Norway and in six other arctic regions; data on elements of arctic fauna and a systematic list of 300 butterflies and moths with critical notes and data on distribution in Norway; one species, *Nola arctica*, described as new.

**Copy seen:** MH-Z.

**25974. SCHØYEN, WILHELM MARI-BO, 1844-1918.** Tilvaext til Norges Lepidopterfauna fra de senere aar. (Entomologisk tidsskrift, 1884. Årg. 5, hæft 1, 55-60, 91-92) **Title tr.:** Additions to the Lepidoptera fauna of Norway in the last few years.

Contains a list of 14 species added to the Lepidoptera fauna of Norway during (then) recent years, with data on geographic distribution; includes *Crambus hamellus* found in Swedish Lapland and adjoining regions of Norway, and *Myelois adenella* from Troms province. Summary in French.

**Copy seen:** DLC; MH-Z.

**25975. SCHØYEN, WILHELM MARI-BO, 1844-1918.** Ueber einige neue Schmetterlings-Varietäten aus dem arktischen Norwegen. (Entomologisk tidsskrift, 1881. Årg. 2, hæft 3, p. 119-24, plate 1) **Title tr.:** On some new varieties of butterflies from arctic Norway.

Contains descriptions of four new varieties of butterflies from the Scandinavian arctic region: *Harpyia bifida saltensis* (Saltenfjord), *Asphalia flavicornes finmar-chica* (Finnmark), *Anaitis paludata obscura* (Sydvaranger) and *Cidaria turbata arctica* (eastern Finnmark).

**Copy seen:** DLC; MH-Z.

**SCHØYEN, WILHELM MARI-BO, 1844-1918,** see also Tjeder, B. Revision of Neuroptera & Mecoptera. 1943. No. 26739.

**25976. SCHOLANDER, PER FREDRIK, 1905-**, and others. Adaptation to cold in arctic and tropical mammals and birds in relation to body temperature, insulation, and basal metabolic rate. (Biological bulletin, 1950. v. 99, p. 259-71, tables, diags.) **Other authors:** Raymond Hock, Vladimir Walters and Laurence Irving.

Maintenance of constant body temperature was found to depend on a balance between heat production and heat dissipation and consequently there are three possible avenues for climatic adaptation, by (1) body to air gradient, (2) heat dissipation and (3) metabolic rate.

There is no evidence of adaptive, low-body temperature in arctic mammals and birds, and the body-to-air gradient can be adapted only by means of behavioral thermoregulation. The basal metabolic rate is not influenced by such factors as temperature gradient and insulation (which largely determine the heat loss), and is hence inadaptable to climate, like the body temperature. The phylogenetic adaptation to cold (or hot) climate has taken place only through factors that regulate heat dissipation, notably the fur and skin insulation.—From author's summary. Bibliography (46 items).

**Copy seen:** DSG.

**25977. SCHOLANDER, PER FREDRIK, 1905-**, and others. Body insulation of some arctic and tropical mammals and birds. (Biological bulletin, 1950. v. 99, p. 225-36, illus., diags.) **Other authors:** Vladimir Walters, Raymond Hock and Laurence Irving.

Insulation measurements on raw skins of 16 arctic and 16 tropical animals are given. A good correlation was found between thickness of fur and insulation. The smaller arctic mammals (lemmings, weasels) have much less insulation than the larger. From the size of the fox to the size of the moose, the same insulation was found per surface area. Seal blubber when submerged in water retains the same good insulation as in 0° C. air. Bear fur, because of wetting of the skin, increases heat transfer by 25-30 per cent when submerged. The beaver is better off as it retains a layer of air next to the skin. Bibliography (16 items).

**Copy seen:** DSG.

**25978. SCHOLANDER, PER FREDRIK, 1905-**, and others. Heat regulation in some arctic and tropical mammals and birds. (Biological bulletin, 1950. v. 99, p. 237-258, illus., tables, diags.) **Other authors:** Raymond Hock, Vladimir Walters, Fred Johnson and Laurence Irving.

A series of arctic and tropical mammals and birds at Point Barrow (71° N.) and Panama (9° N.) was subjected to various air temperatures in a respiration chamber where their heat production was determined. The larger arctic mammals and birds showed no increase of metabolism at -30° C. and observations on sleeping animals suggest that their zone of thermoneutrality extends to -40° C. or -50° C. Smaller arctic species show a high critical temperature and metabolic heat production increases slowly with

lowering of temperature. Experiments also showed that the heat loss below the critical temperature is proportional to the body-to-air gradient. This means that the overall insulation reaches a maximum at the critical temperature, and from then on, the heat loss follows essentially Newton's law of cooling. The very broad zone of thermoneutrality of the larger arctic species (+30° C. to -40° C.) is discussed and evaluated and compared with tropical forms.—From author's summary. Bibliography (43 items). **Copy seen:** DSG.

**SCHOLANDER, PER FREDRIK, 1905-**, see also Llano, G. A. Contribution to lichen flora of Alaska. 1951. No. 23958.

**25979. SCHOYEN, T. H.** *Incurvaria pectinea* (Hw.) som skadeinsekt. (Norsk entomologisk tidsskrift, 1920, pub. 1921. Bd. 1, heft 1, p. 17-19, illus.) **Title tr.:** *Incurvaria pectinea* (Hw.) an injurious insect.

Contains descriptive notes and data on damage done to plants by *Incurvaria pectinea* found in Salten, Norway, (67° N.) on bushes of red and black currant (*Ribes rubrum* and *R. nigrum*), and notes on the control of this pest. Summary in German.

**Copy seen:** DA; MH-Z.

**25980. SCHUBERT, KURT.** Der norwegische Robben- und Eishäufang im Nordmeer 1948. (Polarforschung, 1949, pub. 1950. Bd. 2, Jahrg. 19, p. 278-79) **Title tr.:** The Norwegian catch of seals and sharks in northern seas 1948.

Figures and some notes on seals taken in waters of Newfoundland, Denmark Strait, waters north of Iceland, north Barents Sea and east of 20° E. in Barents Sea; also sharklivers from these waters (in one figure). **Copy seen:** DGS.

**SCHÜBLER**, see Blytt, A. G. Bidrag om vegetationen paa Nowaja Semlja. 1873. No. 20736.

**SCHÜEPP, WALTER**, see Olsson, H., & H. Schüepp. Atmosphärische Trübung in Spitzbergen. 1950. No. 24842.

**SCHULER, WERNER**, see Benz, F., & others. Adrenocorticotropic hormone in pituitary gland of whale. 1951. No. 20587.

**25981. SCHULMAN, EDMUND.** Tree-ring indices of rainfall, temperature, and river flow. (In: American Meteorologi-

cal Society. Committee on the Compendium of Meteorology. *Compendium of meteorology*, 1951. p. 1024-1029, 4 fig., 2 tables)

"A comprehensive and succinct review of the history of dendrochronology. The underlying principles of selection, cross dating and sensitivity of trees; the methods of core sampling, preparation of cores, etc.; errors in the unit of individual tree ring and possible causes of these errors; causes of errors of interpretation of dendroclimatic series; the relation of dendrochronology to meteorology, astronomy, geology, botany, forestry, etc. are discussed; a description of tree-ring series showing indications of past rainfall and river flow in western United States and of the relationship between tree ring fluctuations and temperature in the Arctic is presented; and the use of tree ring chronologies as indicators of long term climatic fluctuations is reviewed."—*Meteorological abstracts and bibliography*, Oct. 1952. v. 3, no. 10, p. 1009. Bibliography (28 items).

**Copy seen:** MH-BH.

**25982. SCHULTE, PAUL, 1896-** Der fliegende Pater bei den Eskimos. Ein Buch über ewiges Eis und ewige Liebe. Paderborn, Verlag Bonifacius-Druckerei [1949?]. 224 p., illus., ports., map.

**Title tr.:** The flying priest among the Eskimos. A book about eternal ice and eternal love.

German translation of the work published in English with similar title, 1940. (See *Arctic Bibliography*, No. 15560)

**Copy seen:** DLC

**25983. SCHULZE, PAUL.** Über *Trichius fasciatus* L. (Berliner entomologische Zeitschrift, 1910. Bd. 55, Heft 1-2, p. 1-8) **Title tr.:** On *Trichius fasciatus* L.

Contains descriptions of two new forms of a beetle, *Trichius fasciatus*, collected in Lapland by H. Rangnow in 1909, and named *f. rangnowi* and *f. borealis*; also a key to 13 color forms of *T. fasciatus*, including at least six, native to Swedish and Finnish Lapland.

**Copy seen:** MH-Z

**SCHUMANN, W.**, see Bock, R. E., & W. Schumann. Katalog Jahresmittel magnet. Elemente. 1948. No. 20750.

**25984. SCHUSTER, RUDOLF M.** The Hepaticae of the east coast of Hudson Bay (notes on nearctic Hepaticae, II). Ottawa. 1951. 62 p., 8 plates, tables. (Canada

National Museum. Bulletin no. 122. Biological series no. 42.)

Contains a report on 74 species of liverworts of the subclass *Jungermannia* and *Marchantia* collected in 1939 and 1948 by Dr. John Marr, between 54° and 60° N.; 35 are new to the region; in addition four are new to America and one undescribed. Distribution tables and phytogeographic classifications of the species follow the taxonomic list. Bibliography (43 items).

**Copy seen:** DSI.

**25985. SCHUSTER, RUDOLF M.** Notes on nearctic Hepaticae IV. *Scapania spitzbergensis* and *Scapania convexula* in North America. (Bryologist, Sept. 1951. v. 54, no. 3, p. 162-80, illus., map)

Contains a study of the two species based on varied material. It is concluded that *S. convexula* is a synonym of *S. spitzbergensis*, the separation of the two species having been based on fragmentary literature only; earlier errors in description are corrected, and the species placed in the new Sectio *Rufidulae*. It is reported from Greenland, arctic Eurasia, and Maine (U. S. A.). Bibliography (10 items).

**Copy seen:** DA.

**25986. SCHWABE, EDWARD L., and others.** The effect of prolonged exposure to low temperature on the basal metabolism of the rat. (Journal of nutrition, Feb. 10, 1938. v. 15, p. 199-210) Other authors: F. E. Emery and F. R. Griffith, Jr.

Contains an account on experiments with rats exposed to temperatures of 7° to 12° C. for the greater part of the day, during a period of 15-60 days. An increase of metabolic rate (as measured at thermal neutrality) by 11-16 per cent, and increased body temperature and retardation of gain in body weight, were observed; the respiratory quotient was not affected. Bibliography (25 items.)

**Copy seen:** DLC.

**25987. SCHWARTZBERG, HENRIK.** Jäänsärkijä-ja hinaaja-laiva "Haapaniemi." (Teknillinen aikakauslehti, 1911. v. 1, p. 122-23, illus.) **Title tr.:** The ice-breaker and tug *Haapaniemi*.

Contains data on a privately-owned ice-breaking tug (85' long) built for use in inland and coastal waters near Kuopio, Finland, one of its functions being to keep passages open during the times of the "rospuutto" (that period, usually of several weeks' duration, when the ice is too thick for small boats to penetrate but

not sufficiently strong to support horse-drawn traffic).

**Copy seen:** DLC.

**25988. SCHWARTZBERG, HENRIK.** Jäänsärkijä-ja hinaajalaiva "Mercator." (Teknillinen aikakauslehti, 1911. v. 1, no. 1, p. 12-15, illus., diags.) **Title tr.:** The Finnish ice-breaker and tug *Mercator*.

Contains description with specifications, scaled drawings, etc., of an ice-breaking tug (86' 11" in length) built by the Hietalahti shipyard at Helsinki for the Hackman & Co. of Viipuri, to give tug service to ships in the Baltic area.

**Copy seen:** DLC.

**25989. SCHWIEGK, HERBERT.** Pathogenesis and treatment of local cold injury. (In: German aviation medicine, World War II, 1950. v. 2, p. 843-57, diags.)

Contains account of the experience of cold injuries to German armed forces in the Russian campaign 1941-42; particular causes of frostbite; local frostbite, circulation and vascular reaction; cold acclimatization; preventive measures (hot drinks, alcohol, nicotine, etc.); local frostbite and high altitude; therapy. Bibliography (43 items).

**Copy seen:** DLC.

**SCHWINGE, ELAINE A., 1920-**, see Gehrig, L. J., & E. A. Schwinge. Must we all die of TB? 1947. No. 22049.

**SCIIVONE, DANIEL C.,** see Minnesota. University. Institute of Technology. Review properties snow & ice. 1951 No. 24376.

**SCIENCE IN ALASKA,** see Alaskan Science Conference . . . 1950.

**25990. SCIENCE NEWS LETTER.** Eclipse observed in rain. (Science news letter, Jan. 13, 1951. v. 59, no. 2, p. 21, 2 figs.)

"A brief presentation on how the solar eclipse of Sept. 1950 was observed with radar at Attu, Alaska, during a gale in spite of heavy rain."—*Meteorological abstracts and bibliography*, Aug. 1951. v. 2, no. 8, p. 708. **Copy seen:** DLC.

**25991. SCIENTIFIC AMERICAN.** Whale cardiogram. (Scientific American, Oct. 1952. v. 187, no. 4, p. 68-70, illus.)

Contains an account regarding a cardiogram of a young beluga taken by Paul D. White with a specially built harpoon and the usual electrocardio-

graphic equipment. The electrocardiogram was recorded for five minutes while the animal thrashed violently; the heart-beat was 20 per minute; the result is compared with those from other animals and man. **Copy seen:** DLC.

**25992. SCOGGAN, H. J.** Botanical investigations along the Hayes River route, northern Manitoba (Canada. National Museum. Bulletin 123, its Annual report for 1949-50, pub. 1951, p. 139-61, illus.)

Results of a survey by a four-man party led by the author in summer 1949 from Norway House along the Nelson-Echimamish-Hayes River system to York Factory on Hudson Bay; returning by the Nelson River and closing the season in the Wekusko and Tramping Lake area. An historical sketch and chronology is given of travels on this formerly important canoe route, which included plant collecting. Population and climate are sketched briefly and the general physiographic character of the area traversed. Three major plant communities are described and notes summarizing collections made at different points in the survey present a general picture of the types of vegetation developed in various ecological habitats. The extensive collections represent 435 species and numerous varieties of vascular plants about 45 per cent showing considerable northward extension in Manitoba from previously published reports. This material will be treated fully by the author in a flora of Manitoba. Further collections (138 of cryptograms, also mammals and birds) were made for the museum. Bibliography (17 items). **Copy seen:** DLC.

**25993. SCOTT, JAMES C. W.** The gyro-frequency in the Arctic E-layer. (Journal of geophysical research, Mar. 1951. v. 56, no. 1, p. 1-16, 7 fig., 4 tables, 15 equations)

"Calculation of the gyro-frequency in the E layer at Canadian Arctic ionospheric recording stations gives a lower magnetic field than that obtained by extrapolation of the terrestrial field measured at ground level, and at one station (Resolute Bay) a large semidiurnal variation with maxima at 06 and 18 hr. local time. Ray path deflections which can explain similar effects previously reported for the F layer cannot be responsible in the E layer because of the opposite sense of this deviation and because of the small layer-thickness. Moreover, no semi-

diurnal variation was found in the F layer. It is shown that these new W layer phenomena may be due to a variable concentration of heavy ions rising to over 4000 times the density of free electrons."—*Meteorological abstracts and bibliography*, June 1952. v. 3, p. 550-51. Bibliography (8 items).

**Copy seen:** DLC; DWB.

**25994. SCOTT, JAMES C. W.** The solar control of the E and F1 layers at high latitudes. (Journal of geophysical research, Sept. 1952. v. 57, p. 369-86, diagrs.)

Contains results of measurements of "seasonal, latitude, and solar-cycle dependence of the E-layer sensitivity to solar angle and the sub-solar frequency." "The monthly mean critical frequencies of the E and F1 layers at high latitudes are shown to vary diurnally with solar angle according to a modified Chapman law." Based on data from Resolute Bay, Baker Lake, and Fort Chimo, Canadian Eastern Arctic, and elsewhere in North America. **Copy seen:** DGS.

**25995. SCOTT, JAMES C. W., and H. C. BAZETT.** Temperature regulation. (Annual review of physiology, 1941. v. 3, p. 107-130)

Contains a review "dealing with some of the literature from Aug. 1938 to July 1940 and a few later papers." The material covers research on: the nervous system and thermal control, receptors and sensation, physical regulation, chemical regulation, slow adaptation to environmental temperature, and hypothermia. Bibliography (123 items).

**Copy seen:** DLC.

**SCOTT, JOHN CULBERTSON, 1900-**, see Bazett, H. C., & others. Climatic effects volume & composition blood in man. 1940. No. 20517.

**SCOTT, JOHN CULBERTSON, 1900-**, see also Burton, A. C., & others. Slow adaptation in heat exchanges of man. 1940. No. 21040.

**25996. SCOTT, PETER MARKHAM, 1909-**. Wild geese and Eskimos: a journal of the Perry River Expedition of 1949. London, Country Life, N. Y. Scribner's, 1951. 254 p. 13 plates, 3 maps (incl. end papers).

Narrative of a three-man expedition (with Harald Hanson and Paul Queneau) to the Perry River (flowing into Queen Maud Gulf at about 67°41' N. 102°42'

W.) region of Mackenzie District June-Aug. 1949. The purpose was mainly to study the birds particularly geese, also to make general geographical, meteorological, zoological, botanical and anthropological observations in an area little traveled by white man, and reported as breeding ground of Ross's and other geese by A. Gavin (see *Arctic Bibliography*, No. 5580, 5581). Scott gives here day-do-day account of the party's camp life and travels, terrain, vegetation, etc., the appearance, living habits and social characteristics of the Kogmuit Eskimos, who worked with the party or exchanged visits. Most of the report of work in this notable breeding ground, however, comprises detailed observations of the various species of birds; plumage flight, courting, and nesting habit, brood counts, etc., many of which are illustrated by photograph or author's sketch. The birds (about 50) and mammals (7) seen are listed, p. 247-48. Useful index at end.

**Copy seen:** CaMAI.

**25997. SCOTT, PETER MARKHAM, 1909-** . Wild geese in the Arctic. (Manchester Geographical Society. *Journal*, 1949-50, *pub.* 1951. v. 55, p. 119-24, 2 sketch maps)

An account of a six-week sojourn on the lower Perry River tundra, Queen Maud Gulf region, Northwest Territories in the summer of 1949, during which breeding colonies of Ross's snow goose were observed.

**Copy seen:** DGS.

**SCOTT, PETER, MARKHAM, 1909-** , see also Dalgety, C. T., & P. Scott. New race whitefronted goose. 1948. No. 21347.

**SCOTT, PETER MARKHAM, 1909-** , see also Fisher, J. Fulmar. 1952. No. 21819.

**SCOTT, PETER MARKHAM, 1909-** , see also *Polar record*. Ornithol. exped. Perry R. 1949. 1950. No. 25161.

**SCOTT, ROBERT C.**, see *Arctic circular*. Microfilm records M'Clintock exped. 1951. No. 20276.

**25998. SCOTT, ROBERT F., and others.** The status of the Dall sheep and caribou in Alaska. (North American Wildlife Conference. 15th, Mar. 6-9, 1950, San Francisco. *Transactions*, 1950. p. 612-26, 2 maps) *Other authors:* E. F. Chatelain and W. A. Elkins.

Results of aerial surveys Oct. 1948-Dec. 1949, and reports of observers and guides; notes on species, and past history of the two groups; with more detailed information concerning abundance and distribution and the factors known to affect abundance (hunting, predation and weather) of each animal. *Bibliography* (12 items). **Copy seen:** DLC.

**25999. SCOTT POLAR RESEARCH INSTITUTE**, Cambridge, Eng. Periodicals and serial publications in the library of the Scott Polar Research Institute, Cambridge, June 1951. Cambridge, 1951. 24 p. mimeographed.

Checklist of about 500 current and non-current journals (superseding the list of Dec. 1949), with the extent of the Institute's file indicated for each title.

**Copy seen:** DAL.

**SCOTT POLAR RESEARCH INSTITUTE**, Cambridge, Eng., see also Polunin, N. V. "NW Passage" plants. 1950. No. 25194.

**SEAMAN, HARRY**, see Shaw, E. Clams. 1950. No. 26088.

**26000. SEATON, STUART LUMAN, 1896-** . Night sky brightness at College, Alaska. (*Journal of geophysical research*. Mar. 1950. v. 55, p. 43-46, illus.)

"Measurements made during February 1949 by means of a low brightness photometer, on the very few nights when auroral activity was absent, gave values as low as 70 mμL (near the zenith) and 180 mμL (at the horizon). During auroras the values range up to 40,000 mμL. Curves show decrease of zenith sky brightness after sunset on April 7 and 9, 1949, respectively."—*Meteorological abstracts and bibliography*, July 1950. v. 1, no. 7, p. 431.

**Copy seen:** DLC.

**26001. SEDERHOLM, JAKOB JOHANNES, 1863-1934.** Les dépôts quaternaires de la Finlande. Helsingfors, 1911. 23 p., illus., fold. map. (Finland. Geologiska kommission. *Bulletin*, v. 5, no. 29) **Title tr.:** The Quaternary deposits of Finland.

A descriptive account of these deposits and their occurrence over the country illustrated by a specific map.

**Copy seen:** DLC.

**26002. SEDERHOLM, JAKOB JOHANNES, 1863-1934.** Esquisse hypsométrique de la Finlande. Helsingfors, 1911. 21 p., illus., fold. map. (Finland.

Geologiska kommission. Bulletin, no. 27) **Title tr.:** A hypsometric outline of Finland.

A brief account of surface structure (relief) of the country with a corresponding map. **Copy seen:** DLC.

**26003. SEDERHOLM, JAKOB JOHANNES, 1863-1934.** Om granit och gneis deras uppkomst, uppträdande och utbredning inom urberget i Fennoskandia. Helsingfors, 1907. 110 p., 8 plates, illus., 2 fold. maps, diags. (Fennia, 26:2) **Title tr.:** On granite and gneiss, their origin, relations and occurrence in the pre-Cambrian complex of Fennoscandia.

Author presents this as a preliminary paper reopening discussion of the question of origin of granite and gneiss. He summarizes recent studies of crystalline schist of the pre-Cambrian basement complex of sedimentary origin and their bearing on problem of granite-gneiss origin; occurrence of these rocks in various localities including Kola-Karelia; and makes suggestions regarding nomenclature. Summary in English, p. 91-110. **Copy seen:** DLC.

**26004. SEDERHOLM, JAKOB JOHANNES, 1863-1934.** On the geology of Fennoscandia, with special reference to the pre-Cambrian. Explanatory notes to accompany a general geological map of Fennoscandia. Helsinki, 1932. 30 p., fold. col. map, fold. table. (Finland. Geologiska kommission. Bulletin, no. 98) Includes data on the far North. **Copy seen:** DLC.

**26005. SEDERHOLM, JAKOB JOHANNES, 1863-1934.** Pre-Quaternary rocks of Finland. Explanatory notes to accompany a general geological map of Finland. Helsinki, 1930. 48 p., 40 illus., diags., fold. map. (Finland. Geologiska kommission. Bulletin: 91)

Contains data on the main features of the geological structure: the Archaean complex; younger Archaean rocks; middle group of pre-Cambrian rocks; youngest pre-Cambrian, Paleozoic and later rocks, and the general rocks of Fennoscandia, with map showing the ancient rocks. Includes geological data on Varanger Fiord on the arctic sea, Rybachiy (Fisher) Peninsula, and the Petsamotunturit. Bibliography (91 items). **Copy seen:** DLC.

**26006. SEDERHOLM, JAKOB JOHANNES, 1863-1934.** Les roches préquater-

naires de la Finlande, 2: me édition revue. Helsingfors, 1911. 27 p., fold. map. (Finland. Geologiska kommission. Bulletin, v. 5, no. 28) **Title tr.:** The pre-Quaternary rocks of Finland. 2nd revised edition.

A general outline of the country's geology with a detailed account of the distribution of the pre-Quaternary formations as illustrated by the attached map, drawn from the *Atlas of Finland* 1910. **Copy seen:** DLC.

**26007. SEDERHOLM, JAKOB JOHANNES, 1863-1934.** Sur la géologie quaternaire et la géomorphologie de la Fennoscandia. Helsingfors, 1911. 66 p., illus., diagr., 2 fold maps. (Finland. Geologiska kommission. Bulletin, v. 5, no. 30) **Title tr.:** On the Quaternary geology and the geomorphology of Fennoscandia.

Contains sections on: the Quaternary deposits in Fennoscandia; extension of the continental glacier in northern Europe and the transport of Fennoscandian erratic blocks; ice movement in Fennoscandia; lines of fracture and their significance in Fennoscandian geomorphology; extent of the sea at the end of the glacial period; postglacial submersion. Bibliography (75 items). **Copy seen:** DLC.

**26008. SEDERHOLM, JAKOB JOHANNES, 1863-1934.** Weitere Mitteilungen über Bruchspalten mit besonderer Beziehung zur Geomorphologie von Fennoskandia. Helsingfors, 1913. 66 p., illus., 1 plate, diags., maps. (Finland. Geologiska kommission. Bulletin, v. 6, no. 37) **Title tr.:** Further reports on rifts with special reference to the geomorphology of Fennoscandia.

The author deals with the deep troughs in the Fennoscandian lakes and their connection with the rift areas and compares the conditions with those of other countries and modern seismic areas (Italy, California, Alaska). The role of land ice in exposing rifts is discussed. The Norwegian shore area, the bays and larger lakes are analyzed in connection with rift formations. The river valleys are concluded to have been preformed by rifts and generally the geomorphology of Fennoscandia is viewed as having been effected largely by forces within the earth rather than by atmospheric agents. **Copy seen:** DLC.

**26009. SEDLETŠKIĬ, I., and A. MALOVICHKO.** Rôle of colloidal-disperse

minerals in the processes of ground freezing. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1945. nouv. ser., v. 47, no. 2, p. 130-33)

"Experiments were performed on samples of the clay minerals nontronite and kaolinite, on samples of unconsolidated rocks containing large proportions of these minerals, and on sand to show the physical effects of freezing and thawing. Structures peculiar to the individual clay minerals were developed in the pure samples which were recognizable in the natural specimens, modified due to the presence of other minerals."—Geological Society of America, *Bibliography and index of geology*, 1945-46, v. 11, p. 295.

**Copy seen:** DLC.

**26010. SEDLETŠKII, I., and others.** X-ray studies of processes of ground freezing. (Akademiia nauk SSSR. Comptes rendus. (Doklady), 1945. nouv. ser., v. 47, no. 4, p. 294-95) *Other authors:* Mikhail Ivanovich Sumgin, and A. Malovichko.

"Specimens of soil, prepared from air-dry clay and sand and moistened to a desired degree, were sealed into cardboard boxes measuring 115 x 80 x 10 mm. The specimens were x-rayed before freezing, after standing for 24 hrs. in a chamber at -10° C., and after thawing for 24 hrs. at room temperatures. Results suggest that x-ray pictures may be used to study changes occurring in the internal structure of specimens and the method of moisture migration within soil samples."—SIPRE.

**Copy seen:** DLC.

**26011. SEDOV, V. P. and P. F. SHVETSOV.** O svyazi naledel v bassejne r. Any s podzemelnymi vodami. (Sovetskaya geologiya, 1940. no. 12, p. 86-92, illus., maps) **Title tr.:** The connection of naleds in the Yana River basin with ground waters.

Description of naleds on Khodorop and Dogdo Rivers (two small right tributaries of the Yana) with contour maps, and explanation of their origin in the action of ground waters. Bibliography (10 items). **Copy seen:** DLC.

**26012. SEDOVA, V. V.** Podvig Georgiia Sedova. (Znanie-sila, Aug. 1952. v. 22, no. 8, p. 11-16, illus.) **Title tr.:** The exploits of George Sedov.

Contains a personal account of the explorer, told by his wife: their first meeting in 1909, Sedov's childhood and education; the spirit and trend in arctic exploration at the time of their marriage;

Sedov's plans for a North Pole expedition; his difficulties and disappointments, then his preparations for the expedition; setting out for the Pole on the *Sv. Foka* (Aug. 27, 1912); wintering on Novaya Zemlya; journey to Franz Josef Land (summer 1913) and winter on Hooker Island; his attempt to reach the Pole with two men and dogs (Feb. 1914); his disease and death. The account includes excerpts from his diaries of the expedition as well as an appreciation of the man and his exploits.

**Copy seen:** DLC.

**SEEHUSEN, SVENN,** see Dansk Peary-Land Ekspedition, 1947-1950. Haandbog. 1948. No. 21358.

**26013. SEEMAN, L. E.** How Alaska contractors fight permafrost. (Pacific builder and engineer, July 1951. v. 57, no. 7, p. 54-56, incl. illus.)

"Measures for insulating, thawing and stabilizing permanently frozen ground before erecting buildings are discussed. It is standard practice to thaw permafrost to a depth of 40-60 ft. under heavy foundations. Buildings on a combination of permafrost and a frost-susceptible soil are subject to differential settlement and possible failure. High powered water jets, blasting, and air tools are employed to excavate permafrost masses."—SIPRE.

**Copy seen:** DLC.

**26014. SELANDER, NILS STEN EDWARD, 1891-** Floristic phytogeography of south-western Lule Lappmark (Swedish Lapland) I-II. Kärleväxtfloran i Sydvästra Lule Lappmark. Uppsala, Almqvist & Wiksell, 1950. 2 v. (1: 22 p., illus., 12 plates. 2: 152, 2 p., 448 text maps. (Acta phytogeographica suecica, 27-28) **Title tr.:** (v. 2) Flora of vascular plants of southwestern Lule Lappmark.

Contains (in v. 1) historical notes on botanical exploration of Lule Lappmark, geobotanical survey with data on the origin of the flora, local distribution, migration of plants, altitudinal belts, climatic changes, index of the species and a bibliography (440 items). Vol. 2, issued in Swedish, gives a taxonomic survey of the flora, including a Latin description of *Antennaria lapponica* n. sp., and notes on habitats and detailed local distribution of 496 species of vascular plants, also index, cited literature (p. 143-46) maps. English summary, v. 2, p. 139-42. **Copy seen:** MH-A.

**26015. SELIAKOV, N. I.** Nekotorye nabludeniia nado l'dom i profsessami, sviazannymi s ego obrazovaniem. (Akademii nauk SSSR. Doklady, 1950. t. 70, p. 821-24, illus.) *Title tr.:* Some observations on ice and the processes connected with its formation.

Discussion of the method of formation of ice crystals, freezing and thawing, types and evaporation of crystals, and energy released during freezing; based on observations and studies of arctic rivers and seas. "Ice crystals are made visible for study purposes by 3 methods: (1) desiccation, (2) etching or outlining, and (3) light project. It was determined by these methods that ice crystals were a few cm. in size. The orientation of ice crystals in relation to the freezing water surface and the physical properties of melting ice, were determined by developing the melting pattern method, a technique first devised by Tyndal. Two methods of freezing water are described: (1) side cooling and (2) surface cooling with constant pressure underneath the ice. Two types of "freezing out" (vymorazhivanie) are distinguished: (1) when evaporation takes place during the crystallization process, and (2) when evaporation originates from the solid phase surface, after the liquid has been totally crystallized. The latter process is called sublimation."—SIPRE.

*Copy seen:* DLC.

**26016. SELIGMAN, GERALD.** The growth of glacier crystal. (Journal of glaciology, Mar. 1949. v. 254-66, tables, graphs, diagrs.) Also published (apparently in briefer form) as: International Geodetic and Geophysical Union. Association of Scientific Hydrology. Assemblée générale d'Oslo, 1948. Procès-verbaux des séances. t. 2. Travaux de la Commission de la Neige et des Glaciers, pub. 1950? p. 216-20.

"Ice crystal growth in the tongues of alpine glaciers was observed. Crystal sizes were obtained from pencil rubbings on paper. The areal proportions of crystals of each size present were recorded on a histogram. Crystal sizes observed at or near the glacier surface increase from bergschrund to snout. The relationship of crystal size to length of travel and to glacier speed indicate that while time must influence crystal growth in active ice, there are also other factors. Larger crystals were found in longer glaciers and smaller crystals in steep glaciers. Scan-

dinavian type glaciers lacked uniformity in crystal size in a given area."—SIPRE. Bibliography (20 items).

*Copy seen:* DGS; DLC.

**26017. SELIGMAN, GERALD.** Growth of glacier crystals. (Nature, Mar. 1948. v. 161, no. 4091, p. 485, illus.)

Contains preliminary note to the as yet unsolved problem of the growth of ice crystals in glaciers. In observations on alpine glaciers, the author found that (a) the crystals in flowing ice are not nearly so large as often reported; (b) under certain conditions they are "surprisingly small"; (c) there seems to be some relationship between crystal size and the inclination of the glacier bed. A simple method of recording crystal size of glaciers (by rubbings with a pen on paper held against the ice) is given.

*Copy seen:* DA.

**26018. SELIGMAN, GERALD.** The growth of the glacier crystal: some further notes. (Journal of glaciology, Mar. 1950. v. 1, p. 379-81)

"The root mean square diameter of crystals inside a tunnel in the Z'Mutt Glacier was 1.7 cm. The measurement 8 m. vertically above this point was 2.2 cm., or an increase of nearly 30 per cent. It was observed in the Upper Grindelwald Glacier that smaller crystals are caused by strain from greater stresses. Ice crystals rapidly grew in size when the stress was removed. A rubbing made of a blue band in an artificial tunnel in the Bas Glacier d'Arolla showed a sharply defined central zone containing large crystals. Smaller crystals were found in the areas adjacent to the central zone. Rubbings made along apparent shear planes showed very small crystals. It was observed that cracks and incipient crevasses in the ice may pass through the centers of crystals."—SIPRE.

*Copy seen:* DLC.

**26019. SELIVANOV, A. P.** Izuchenost' DVK v pochvenno-geobotanicheskom otnošenii. (Akademii nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1938. no. 30 (3), p. 111-21, fold. maps) *Title tr.:* Synopsis of the geobotanical soil studies in Soviet Far East.

Contains historical notes on the study of plant geography and soils of the Far Eastern Region, with a list of more than thirty expeditions, including those exploring the Okhotsk sea coast, Kam-

chatka Peninsula and Chukotsk Peninsula. Map shows the progress of soil study. **Copy seen:** DLC; MH-A.

**SELIVANOVA, V. M.,** see Mačsko, S. N., and others. Vostanovlenie zhiznennykh funktsii. 1943. No. 24233.

**SELIVANOVA, V. M.,** see also Mačsko, S. N., & V. M. Selivanova. Vostanovlenie zhiznennykh funktsii. 1949. No. 24234.

**26020. SELLE, WILBUR ARTHUR, 1901-** . Body temperature; its changes with environment, disease, and therapy. Springfield, Ill., Thomas [1952]. 112 p., illus. (American lecture series, publication no. 147. American lectures in physical medicine)

Contains a comprehensive but concise review of the field, with chapters on: (1) the significance of temperature regulation and heat control; normal values and variations of body temperature; (2) heat production (basal heat production, chemical regulation, effect of food intake, role of liver, viscera and muscular activity); (3) heat dissipation (physical heat loss, physiological adjustments); (4) integrated temperature control; (5) neural mechanisms of temperature regulation (central and peripheral); (6) internal disturbances of heat regulation; (7) environmental disturbances of heat regulation (high and low temperatures); (8) allergies (to cold or heat). All chapters (excepting 6, p. 48-62) have a direct or indirect bearing on the problem of the organism's response to environmental (low) temperature. Bibliography (222 items).

**Copy seen:** DLC.

**26021. SELLERS, E. A., and others.** Acclimatization and survival of rats in the cold: effects of clipping, of adrenalectomy and of thyroidectomy. (American journal of physiology, May, 1951. v. 165, p. 481-85) Other authors: S. S. You, and Newell Thomas.

Contains an account of animals kept at  $1^{\circ} \pm 1.5^{\circ}$  C. Clipped rats died within 3-23 hours when exposed to this cold, but when acclimatized for two or more months prior to clipping, most survived 17 days and some even two months; similarly adrenalectomized and thyroidectomized rats survived cold exposure much longer after previous acclimatization. The essential role of the thyroid and cortical hormones, for survival in the cold, and as indicated by the experi-

ments, is discussed. Bibliography (4 items).

**Copy seen:** DLC.

**26022. SELLERS, E. A., and S. S. YOU.** Effect of "acclimatization" on survival of rats in the cold after shaving, after adrenalectomy and after thyroidectomy. (Revue canadienne de biologie, Mars 1951. v. 10, p. 86)

Contains an abstract on experiments showing that rats subjected to cold, then shaved and further exposed to cold, survived much longer than similar animals not "acclimatized" prior to shaving. Survival time of adrenalectomized and thyroidectomized rats following cold exposure was also longer in acclimatized animals.

**Copy seen:** DLC.

**26023. SELLERS, E. A., and R. WEN YOU.** Prevention of dietary fatty livers by exposure to a cold environment. (Science, Dec. 30, 1949. v. 110, p. 713)

Contains a brief report on experiments with rats, fed a severely hypolipotropic diet and kept at a temperature of  $2.5 \pm 1^{\circ}$  C. The animals deposited 3-4 times less fat in their livers than controls kept at room temperature, due apparently to the increased total metabolic rate in the cold environment.

**Copy seen:** DLC.

**26024. SELLERS, E. A., and S. S. YOU.** Role of the thyroid in metabolic responses to a cold environment. (American journal of physiology, Oct. 1950. v. 163, p. 81-91, 4 fig.)

Contains a study on the relationship of the thyroid and pituitary of adult rats to changes in metabolism taking place in a cold environment ( $1.5^{\circ} \pm 1^{\circ}$  C.); the experiments indicate that while increased thyroid activity is not essential for an elevation in metabolic rate, part of the elevation observed depends on the presence of thyroid hormone and is associated with the ability of the animals to survive. Bibliography (10 items).

**Copy seen:** DLC.

**26025. SELLERS, E. S.** The selection of lubricants for use at low temperatures. (Polar record, July 1951. v. 6, no. 42, p. 237-44, incl. tables, 10 refs.)

"A lubricating oil must be sufficiently viscous to maintain a lubricating film and should exhibit strong adherence to the bearing surfaces. The oil should have no corrosive action on the component parts and should resist oxidation. It should not dissolve water and it should not represent a fire hazard. Engine oils

must be diluted with kerosene or gasoline at temperatures as low as  $-70^{\circ}$  F to prevent solidification. Synthetic oils of the polyalkylene glycol type have proven advantages in engine starting, but develop sludge under operating conditions. Naphthene base oils with special additives have been used though a slight solubility for water is evident. Similar oils and special greases have been developed for general machinery and hydraulic transmission gears. Non-spreading lubricants developed for instruments and fine mechanisms may solidify at low temperatures and may on occasion be replaced by powdered graphite. The best low temperature lubricant must be designed for the specialized application."—SIPRE. Bibliography (10 items).

**Copy seen:** CaMAI; DLC.

**26026. SELLING, OLOF H.** On *Protojuniperoxylon arcticum*. (Journal of paleontology, July 1951. v. 25, p. 538-39)

Fossil tree roots of indeterminate Mesozoic age from Hope Island, Svalbard, which were originally described as a new species of the Cupressaceae (see *Arctic Bibliography*, No. 15708), have been found to exhibit closer similarities to the Cycadeoidea. The name *Protojuniperoxylon arcticum*, established for the Hope Island material, should therefore be dropped.

**Copy seen:** DGS.

**SELYE, H.**, see Henriques, S. B., & others. Influence of cold on blood fibrinogen. 1946. 22576.

**SEMENOV, A.**, see Vladimirov, O., & others. Geothermal measurements in Monche-Tundra. 1939. 27139.

**SEMENOV, ANDREĬ**, see **SEMENOV-TĬAN-SHANSKIĬ, ANDREĬ PETROVICH, 1866-1941.**

**SEMENOV, P. K.**, see Melent'ev, B. N., & others. Calcite in decomposed tectonic zones. 1941. No. 24283.

**26027. SEMENOV, S. L.** Sever Evropejskoĭ chasti RSFSR. Moskva, Gosudarstvennoe izd-vo geogr. lit-ry, 1951. 52 p., illus., maps (1 fold.). (Po rodnoi strane). **Title tr.:** The North European part of the Russian Soviet Federated Socialist Republic.

**Contains** (in this popular survey of an area that includes Arkhangel'skaya Oblast, Novaya Zemlya and Zemlya Frantsa Iosifa) sections on: the location and geographical characteristics of the area;

its importance to the country in the past and present; a "trip" over its cities and rivers, telling of their history, economic importance, etc. **Copy seen:** DLC.

**26028. SEMENOV-TĬAN-SHANSKIĬ, ANDREĬ PETROVICH, 1866-1941.** K faunĕ nasĕkomykh ostrova Kolgueva, Coleoptera. (Russkoe ěntomologicheskoe obshchestvo, S.-Peterburg. Trudy, 1904-05, pub, 1904. t. 37, no. 1-2, p. 116-23) **Title tr.:** Contribution to the insect fauna of Kolguev Island. Coleoptera.

**Contains** descriptive notes on 11 species of beetles (Coleoptera), nine of which were collected by S. A. Buturlin on Kolguev Island in 1902; includes Latin diagnoses of *Elaphrus latipennis*, n. sp. (by Semenov) and *Platysma (Pseudocryobius) aquilinum* n. sp. by T. Chicherin.

**Copy seen:** DLC; MH-Z.

**26029. SEMENOV-TĬAN-SHANSKIĬ, ANDREĬ PETROVICH, 1866-1941, and V. V. GUSSAKOVSKIĬ.** Note sur les reprĕsentants palĕarctiques de la tribu des Abiini (Hymenoptera, Tenthredinidae). (Konowia, 1937. Bd. 16, Heft 1, p. 1-9) **Title tr.:** A note on palaeartic representatives of the tribe Abiini (Hymenoptera, Tenthredinidae).

**Contains** synopsis of the species of four genera of saw-flies of the tribe Abiini, with Latin diagnoses of four new species including *Orientabia ochotica* n. sp. from the port of Ayan on the coast of the Sea of Okhotsk.

**Copy seen:** MH.

**26030. SEMENOV-TĬAN-SHANSKIĬ, ANDREĬ PETROVICH, 1866-1941.** Obshchĭi ocherk fauny kozhistokrylykh (Dermaptera) SSSR. (Akademiĭa nauk SSSR. Izvestiĭa, ser. 7. Otdelenie matematicheskikh i ěstestvennykh nauk, 1935. no. 5, p. 825-30) **Title tr.:** A general sketch of Dermaptera fauna of the U.S.S.R.

**Contains** a general survey of the earwigs fauna of U.S.S.R., with a list of 24 species and data on their geographic distribution, including *Prolabia arachidis* occurring in Kamchatka Peninsula, and a discussion of the development and peculiar features of this fauna.

**Copy seen:** DLC; MH.

**26031. SEMENOV-TĬAN-SHANSKIĬ, ANDREĬ PETROVICH, 1866-1941.** Predely i zoogeograficheskie podrazdeleniĭa Palearkticheskoi oblasti dlĭa nazemnykh sukhoputnykh zhivotnykh na osnovanii

geograficheskogo raspredeleniia zhestkokrylykh nasekomykh. (Akademiia nauk SSSR. Zoologicheskii institut. Trudy, 1935. t. 2, vyp. 2-3, p. 397-409, fold. map) **Title tr.:** The limits of the zoogeographical subdivisions of the palaearctic region for terrestrial animals, based on the geographic distribution of coleopterous insects.

Contains an attempt at a division of terrestrial animals of the palaearctic region into four principal sections (and smaller subdivision), including Eurasian boreal subregion (Subregio europaeo-sibirica s. boreurasiatica) with arctic (zona s. provincia arctica) and taiga (zona s. provincia taigae s. silvarum borealium) zones; based on study of the geographic distribution of butterflies and moths (Lepidoptera) in Eurasia.

This paper was summarized by Sten Stockmann (q. v.) in 1942.

**Copy seen:** DLC; MH-Z.

**26032. SEMENOV - TIÂN - SHANSKIÏ, ANDREÏ PETROVICH, 1866-1941.** Revisio specierum ad Silphidarum genera *Pteroloma* Gyllth. et *Lyrosoma* Mann. spectantium. (Russkoe entomologicheskoe obshchestvo, St. Petersburg. Trudy (Horae) 1892-93, pub. 1893. t. 27, p. 335-46) **Title tr.:** A revision of the genera *Pteroloma* Gyllth. and *Lyrosoma* Mann. of Silphidae.

Contains description of both genera, keys to the species and a list of six species of *Pteroloma* and two of *Lyrosoma*, with synonymy, diagnoses of two new species, critical notes and data on distribution of these beetles; includes *P. forstroemi*, *L. opacum* and *L. pallidum* native to Lapland, northern European Russia, Siberia, Alaska and Aleutian Islands.

**Copy seen:** MH-Z.

**26033. SEMENOV - TIÂN - SHANSKIÏ, ANDREÏ PETROVICH, 1866-1941.** Zamëtka o geograficheskom rasprostraneniï v Rossii vidov roda *Brychius* C. G. Thoms. (Coleoptera, Halipidae). (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1897, pub. 1898. Novaiia seriia. t. 11, p. 511-14) **Title tr.:** A note on the geographic distribution in Russia of the species of the genus *Brychius* C. G. Thoms. (Coleoptera, Halipidae).

Contains data on Russian distribution of three beetles of the genus *Brychius*, including *B. elevatus* from Finnish Lapland and *B. cristatus* native to northern

Finland, Kola Peninsula and probably northwestern Siberia.

**Copy seen:** DLC; MH-A.

**26034. SEMENOV - TIÂN - SHANSKIÏ, ANDREÏ PETROVICH, 1866-1941.** Zamëtki o zhestkokrylykh (Coleoptera) Evropeiskoi Rossii i Kavkaza, I-L. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1898, pub. 1899. Novaiia seriia. t. 12, p. 68-115) **Title tr.:** Notes on Coleoptera of European Russia and the Caucasus.

Contains critical notes on 50 species of beetles of European Russia and the Caucasus and data on their geographic distribution; includes *Traehypachys zetterstedti* native to northern Scandinavia and the Kola Peninsula and *Stenotrachelus aeneus* from Solovetskiye Islands, White Sea; descriptive and bibliographical footnotes and an index of the species.

**Copy seen:** DLC; MH-Z.

**26035. SEMENOV - TIÂN - SHANSKIÏ, O. I., and A. A. NASIMOVICH.** Osobennosti kolebanii chislennosti ryzhikh polevok. (Priroda, 1949. no. 3, p. 70-73, illus.) **Title tr.:** Fluctuation in the numbers of red meadow mice.

Contains a statistical study of this mouse (*Eutamias glareolus*) population in the region of Lake Imandra on Kola Peninsula, based on account of the animals trapped over several years.

**Copy seen:** DLC; MH.

**26036. SEMERIKOV, P. P.** Vyrashchivanie teliat v zapoliarnom sovkhoe. (Sotsialisticheskoe zhivotnovodstvo, May 1951. v. 13, no. 5, p. 74-75, tables) **Title tr.:** Raising calves in a polar sovkhoe.

Contains an account of calf raising on a state farm in Komi A.S.S.R., with information on the special sections where the cows are kept for calving; the special cages in which the calves are kept the first 30-35 days; their nutrition and gains in weight; further treatment and rations; weights of calves at different ages and weight of cows; treatment of cows after calving, etc.

**Copy seen:** DLC.

**26037. SEMIÄKIN, F. M., and P. F. MIKHALEV.** On the probable mechanism of the formation of periodic ice streaks in the course of soil freezing, viewed in connection with permanently frozen subsoil question. (Akademiia nauk

SSSR. Comptes rendus (Doklady), 1937. nouv. ser., v. 17, no. 8, p. 405-407, tables)

"The spacing between ice streaks formed during the process of soil freezing is related to heat conduction and the diffusion of water in the ground. An equation similar to the experimental relationship for the formation of Liesegang's rings is presented. The equation was applied satisfactorily to photographs of frozen soil cylinders taken by Taber."—SIPRE.

*Copy seen:* DLC.

**26038. SENKEVICH-GUDKOVA, V. V.** K voprosu o piktograficheskoy pis'me u kazymskikh khandov. (Akademiia nauk SSSR. Muzei antropologii i etnografii. Sbornik, 1949. t. 11, p. 171-74, 22 illus.) *Title tr.:* On the question of the picture writing of the Kazym Khanty.

*Contains* discussion of pictographs which these Ostyaks cut with a knife on the bark of growing trees. Hunting and fishing activities, property marks (*tamgas*), human and animal figures etc., are presented. These pictographs copied by I. S. Gudkov in 1934-38 are reproduced here.

*Copy seen:* DLC.

**26039. SENKEVICH-GUDKOVA, V. V.** Mamont v fol'klore i izobrazitel'nom iskusstve kazymskikh khandov. (Akademiia nauk SSSR. Muzei antropologii i etnografii. Sbornik, 1949. t. 11, p. 156-59, illus.) *Title tr.:* The mammoth in the folklore and representational art of the Kazym Khanty.

*Contains* Ostyak folk beliefs concerning the shape and origin of the mammoth which lives underground: when elk, bear or pike become very old, they do not die but go underground, transforming themselves into "muv-khor" (subterranean wild animal); other legends of the mammoth's origin are given; also remarks on bear ritual, on the pike considered as an animal not a fish, and on a carved figure of a mammoth (illus.) which the author saw in 1937, primitive in style but life-like. *Copy seen:* DLC.

**26040. SEPPÄLÄ, VÄINÖ.** Suomen ja Norjan rajan aikaisimmat vaiheet ja rajantarkastus vuonna 1925. (Maanmittaus, 1926, v. 1, no. 4, p. 171-82) *Title tr.:* The earliest boundaries between Finland and Norway and the boundary survey of 1925.

*Contains* an historical outline of agreements concerning location of the Finnish-

Norwegian border, 1923-1924. Describes the work of the joint Finnish-Norwegian field party which in 1925 re-ran the line, reconstructed old markers and set up new ones.

*Copy seen:* DLC.

**26041. SEPPÄNEN, O.** Saimaan vesistöön uittoväylät ja uittojen organisaatio niissä. Helsinki, 1937. 168 p., plates, illus., tables, diagrs., fold map. (Acta forestalia fennica, 46:4) *Title tr.:* Raft channels and the organization of rafting in the Lake Saimaa system.

*Contains* a politico-economic analysis of rafting conditions, procedures and regulations of a single area (approx. 61°20' N. 28' E.). Includes description of the waterways of the area and their suitability for rafting; its development and organization; cooperation; maintenance of the raft channels; rafting laws and the spheres of interest of the forest owners, timber trade, etc.; labor legislation; treatment of accidents; legal regulation of relations between various interests, etc. Contrary to other areas, the Saimaa system shows only a small amount of cooperative rafting and cannot be compared with those of Kymi, Päijänne and others. Bibliography (about 200 items). Summary in German.

*Copy seen:* DLC.

**26042. SEPPÄNEN, O.** Tuntsa-Oulankajoen sekä Jäämeren päävesistöä-luoden metsät ja niiden kaukokuljetus-mahdollisuudet. Helsinki, 1939. 91 p. plates, illus., maps, tables. (Acta forestalia fennica, 47:5) *Title tr.:* The forests in the Tuntsa-Oulanka and Arctic Ocean main waterway regions and long-distance transport.

*Contains* data on the forests and transportation of timber in these northeastern (Oulanka River ca. 66°30' N. 28°30' E., Tuntsa, ca 67°40' N. 29°40' E.) and northern regions of Finland, an area (49,642 sq. km.) from which raw materials for the wood industry are economically important to the country, but in which the usual method of transporting felled timber to the place of consumption (i. e. by floating down the waterways) is precluded because the main rivers flow southeastward through Russian territory into the White Sea, or northward into the Arctic through a section of Finland where the population is sparse, industry undeveloped, highways few, and no railroads. For each district of these main watersheds, the author gives detailed information on types of forest,

amounts of timber (including prospective felling quantities for the next ten years), ownership (state forests, etc.), market. For each district, he analyzes the local transportation problems, working out possible solutions, in most cases suggesting routes and methods (usually a combination of floating and portaging by motor ferry), estimating distances, time required and costs for transporting the timber to Finnish industrial centers. Summary in English, p. 80-91.

**Copy seen:** DLC.

**26043. SEREBROVSKIĬ, PAVEL VLADIMIROVICH.** Ètŭdy po istorii ptits Palearktiki. (Akademiia nauk SSSR. Izvestiia. Otdelenie matematicheskikh i estestvennykh nauk. Serii, biologicheskai, 1937. no. 4, p. 1185-1210, 6 text maps) **Title tr.:** Studies on the history of the birds in the Palaearctic.

Contains a summary of the author's twenty-year study of the areas of birds' distribution in the U.S.S.R., with data on the history of formations of the areas of certain species or groups, relationship to climatic conditions, evolution of birds with special reference to disjunction of bird areas in Europe and Asia (mostly in Central Asia). Includes data on areas of some northern species. This paper was read and discussed at the meeting of Biological group of the Academy of Sciences U.S.S.R. in Moscow, Dec. 2-4, 1936.

**Copy seen:** DLC; MH.

**SERGEANT, DAVID E.,** see Duffey, E., & D. E. Sergeant. Field notes birds Bear I. 1950. No. 21554.

**26044. SERGEEV, A. M.** Zametki o geograficheskoi rasprostraneniĭ mlekopitaushchikh v basseine r. Mezeni, Severnyi kraĭ. (Zoologicheskii zhurnal, 1934, t. 13, vyp. 4, p. 759-61) **Title tr.:** Notes on the geographic distribution of mammals in the Mezen' River basin, Northern Region.

Contains data on the geographic distribution of a mole, *Talpa europaea*, white fox (*Alopex lagopus*), chipmunk (*Eutamias asiaticus*) and reindeer (*Rangifer tarandus*) in the basin of the Mezen' River (65°-66° N. 45° E.) Arkhangel'sk province.

**Copy seen:** DLC; MH-Z.

**26045. SERGEEV, M.** Nymylany. (In: Bol'shaya sovetskaya èntsiklopediia, 1926-47. v. 42, col. 412-14) **Title tr.:** The Nymylans.

Brief sketch of this people also (formerly) known as Koryaks, numbering

about 8,000 and distributed along the Bering and Okhotsk seacoasts and inland on the tundra; their characteristic coastal or nomadic way of life: trapping, fishing, hunting and reindeer-breeding; their colonization in the 17th and 18th centuries with enforced christianization and subjugation by the Russians; their wars and revolts, with resultant punitive expeditions and their enslavement; social stratification and economic exploitation; the "new [i. e. Soviet] era," with complete social and industrial reorganization, increase of population, economic productivity through specialization and technical reconstruction; collective industrialization; laws, cultural development in art, schools, education and health, etc.

**Copy seen:** DLC.

**26046. SERGEEV, M.** Saamy. (In: Bol'shaya sovetskaya èntsiklopediia, 1926-47. v. 50, col. 80-81) **Title tr.:** The Saami.

Brief sketch of these people (the Lapps) said to number about 30,000, inhabiting northern Sweden, Norway, Finland and Kola Peninsula; their basic economy: fishing and reindeer husbandry, their nomadic way of life; their reconstruction for the Kola Lapps in the "new [i. e. Soviet] era," economic unification, technical aid in the reindeer-breeding industry; reacclimatization of fauna and establishment of hunting reserves; rehabilitation of fishing, hunting and sea-hunting industries; increase of wealth and collective security; social, educational and literary development, health centers, industrialization of the Murmansk region, dwellings and increase of population.

**Copy seen:** DLC.

**26047. SERGEEV, MIKHAIL ALEKSEEVICH.** K voprosu ob ispol'zovanii rastitel'nykh resursov Kamchatki. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1938. no. 28, p. 109-112) **Title tr.:** On the utilization of plant resources of Kamchatka.

Contains data on economic uses of slender twigs, bark and bast of a species of willow, *Salix sachalinensis*, widely distributed in the Kamchatka Peninsula; the geographic distribution, technical characteristics, resources, and organization of the wickerwork and the rope and cord industry are discussed.

**Copy seen:** DLC; MH-A.

**26048. SERGEEV, MIKHAIL ALEKSEEVICH.** Razvitie severnogo olen-

vodstva. (Sotsialisticheskoe zhivotnovodstvo, July 1950. v. 12, no. 7, p. 61-70, illus., table) **Title tr.:** The development of reindeer farming.

*Contains* a general account with sections on the animal's food, milk, meat, its use as a draught and driving animal; its parasites and enemies; reindeer breeding before and following the revolution; research on reindeer and its pastures; collectivisation of reindeer farming; location, production and income of the collective reindeer farms; new developments and progress; combatting diseases and wolves; selection, organization and rationalization of work; welfare- and cultural work among the reindeer breeders; experimental work. **Copy seen:** DLC.

**26049. SERGEEV, MIKHAIL ALEK-SEEVICH, editor.** Skazki narodov Severa. Moskva-Leningrad, Gosudarstvennoe izd-vo khudozhestvennoi literatury, 1951. xvi, 669 p., illus. **Title tr.:** Tales of the northern peoples.

*Contains* a popular introduction and bibliographical notes on the recent publications of Siberian tales followed by Russian translations of texts. These represent the folklore of: the Lapps (7 tales), Voguls (16), Samoyeds (7), Tawgi-Samoyeds or Nganasani (7), Ostyak-Samoyeds (3), Yeniseians or Kets (4), Tungus (22), Dolgans (2), Lamuts (16), Golds (7), Orokis (4), Gilyaks (4) Chukchis (23), Koryaks (12), Kamchadals (13), Yukaghirs (3), Eskimos (16), Aleuts (1), and Yakuts (5). Appended (p. 631-43) is a record of sources for the tales (mostly printed books and periodicals of recent date, but also some mss.); and a vocabulary (p. 644-61) explaining the ethnographic terms, geographic names, and native words mentioned in the texts. Includes several hundred decorative designs (head and tail pieces, etc.), by the artist N. G. Basmanov. **Copy seen:** CaMAI.

**26050. SERGEEVSKIĬ, BORIS ALEK-SEEVICH, 1889-** Sovremennye karty polarnogo moria u beregov Sibiri. Kratkii obzor. (Sovetskaiâ Aziâ, 1928. god. 4, p. 100-108) **Title tr.:** Present-day maps of the polar sea along the Siberian coast. A brief sketch.

*Contains* description of charts resulting from the Great Northern Expedition of 1734-43, the Russian Hydrological investigations during 1734-71 (published in 1872), the Russian Polar Expedition of Baron von Toll in 1900-1902, the

Taimyr and Vaitgach 1914-1915, the Hydrographic Expedition in 1922, and others. Charts covering the western part of Kara Sea and Ob'-Yenisey Bay, the eastern part of Kara Sea and Ob'-Yenisey Bay to the Taymyr Peninsula, Laptev Sea and the East Siberian Sea, also those issued by the British Admiralty are noted, scale indicated, etc.

**Copy seen:** DLC.

**SERGIEVSKIĬ, V. M.,** see Samollovich, R. L., & others. Geologiâ Arktiki. 1937. No. 25812.

**26051. SETÄLÄ, EMIL NESTOR, 1864-1935.** Aus dem Gebiet der Lehnbeziehungen. (Finnisch-ugrische Forschungen, 1912. Bd. 12, p. 161-289) **Title tr.:** From the sphere of loan contacts.

*Contains* linguistic investigation of words for numerals and mythological names among the Finns and other Finno-Ugric peoples, borrowings from each other and from Indo-European peoples. Some of the more interesting topics treated are: the Syryan kul, "evil spirit, devil" (p. 173-74); Vogulian and Ostyak names for "the ruler of the underworld" (p. 174-78); Finnish *Pojholan emäntä*, "the mistress of Nordland" (p. 243-50), etc. **Copy seen:** DLC; InU.

**26052. SETÄLÄ, EMIL NESTOR, 1864-1935.** Bibliographie der finnisch-ugrischen Sprach- und Volkskunde für das Jahr 1900. (Finnisch-ugrische Forschungen, 1901. Anzeiger, Bd. 1, no. 1-2, p. 68-172) **Title tr.:** Bibliography of the Finno-Ugric linguistics and folklore for 1900.

*Contains* (among others) works on the Lapps (p. 121-23, 168-71), Zyryans (p. 125-26) and the Ostyaks and Voguls (p. 127-30). This was the first issue of a bibliography planned to be published yearly, with assistance of scholars working in the field of Finno-Ugric linguistics and ethnology; with archeology to be included as far as it deals with regions populated by the Finno-Ugric peoples today or in the past; recent political history to be excluded, and works of literature limited to the old period: Finnish to 1809, Estonian to 1850, and Hungarian to the 18th century. Abstracts are given occasionally for important works. The bibliography was continued until 1912: by Setälä for 1901, Y. Wichmann for 1902, J. Kalima for 1902-1904 and E. V. Ahtia for 1905-1912, q. v. **Copy seen:** DLC; InU.

**26053. SETÄLÄ, EMIL NESTOR, 1864-1935.** Bibliographie der finnisch-ugrischen Sprach- und Volkskunde für das Jahr 1901. (Finnisch-ugrische Forschungen, 1903. Anzeiger, Bd. 3, no. 1-2, p. 1-174) *Title tr.:* Bibliography of the Finno-Ugric linguistics and folklore for 1901.

*Contains* among others, works on the Lapps (p. 83-87), Zyryans (p. 89-91), Voguls and Ostyaks (p. 92-96).

*Copy seen:* DLC; InU.

**26054. SETÄLÄ, EMIL NESTOR, 1864-1935.** Centenaire de la naissance de Mathias-Alexandre Castrén, 1813-1852. (Suomalais-ugrilainen seura. Aikakauskirja, 1915. v. 30, no. b, p. 1-44; the same in Finnish, no. 1a, p. 1-39) *Title tr.:* Centenary of the birth of M. A. Castrén 1813-1852.

*Contains* biographic sketch of this noted Finnish linguist and explorer, including an account of his expeditions to the Samoyeds, Zyryans, Ostyaks and Yeniseians in 1843-48, and his published works.

*Copy seen:* DLC; InU.

**26055. SETÄLÄ, EMIL NESTOR, 1864-1935.** Un dictionnaire samoyède. (Suomalais-ugrilainen seura. Aikakauskirja, 1932. v. 43, p. 155-61) *Title tr.:* A Samoyedic dictionary.

*Contains* proposal to compile a new Samoyed dictionary which should include all the Samoyed words collected up to date. Samoyedic dictionaries and word lists from the Netherlander Nic. Witsen's in 1705 up to Castrén and Budenz are reviewed. The paper was read at the meeting of Finno-Ugric Society, Dec. 2, 1925.

*Copy seen:* DLC; InU.

**26056. SETÄLÄ, EMIL NESTOR, 1864-1935.** K. B. Wiklund (1868-1934). (Finnisch-ugrische Forschungen. Anzeiger, 1934. Bd. 22, no. 1-3, p. 52-54)

*Contains* obituary outlining life and achievements of this Swedish scholar who contributed very much to linguistic research on the Lapp language.

*Copy seen:* DLC; InU.

**26057. SETÄLÄ, EMIL NESTOR, 1864-1935.** Lappische Lieder aus dem XVII-ten Jahrhundert, nach den Originalhandschriften herausgegeben von E. N. Setälä. (Suomalais-ugrilainen seura. Aikakauskirja, 1890. v. 8, p. 105-123) *Title tr.:* Lapp songs from the 17th century, edited from the original manuscripts by E. N. Setälä.

*Contains* (1) Lappish text of two songs by a native, "Oloff Matzon Lappo," found by Setälä in the University of Uppsala Library in the winter of 1888, first published by Johannes Scheffer q. v., in his *Laponia* 1673; (2) text of a Lapp bear ritual song also found in Uppsala; (3) an anonymous communication "about the song used by Lapps when they strike the magic drum."

*Copy seen:* DLC; InU.

**26058. SETÄLÄ, EMIL NESTOR, 1864-1935.** Otto Donner, in memoriam. (Suomalais-ugrilainen seura. Aikakauskirja, 1911-12. v. 27, p. 15-32; the same in Finnish on p. 1-14) *Title tr.:* To the memory of Otto Donner.

*Contains* a speech in French and Finnish delivered at the annual meeting of the Finno-Ugric Society, Dec. 2, 1909. Donner's life (1835-1909) is outlined and tribute paid to his contribution to knowledge of Finno-Ugric languages: his principal work, *Vergleichendes Wörterbuch der finnisch-ugrischen Sprachen*, 1874-88 (q.v.) never outdated, his sojourn among the Lapps of Sorsele in 1874, collecting their songs (*Lappalaisia lauluja*, 1876, q.v.) and other publications; his activities as founder of Finno-Ugric Society in 1883 and its president for many years.

*Copy seen:* DLC; InU.

**26059. SETÄLÄ, EMIL NESTOR, 1864-1935.** Ueber Art, Umfang und Alter des Stufenwechsels im Finnisch-Ugrischen und Samojedischen. (Finnisch-ugrische Forschungen. Anzeiger, 1912. Bd. 12, no. 1-3, p. 1-128) *Title tr.:* The kind, extent and age of the stage shift in the Finno-Ugric and Samoyedic languages.

*Contains* a linguistic investigation of the stage shift of nasals, half vowels, liquidæ, consonants and sybilants, also their combinations, in the Finno-Ugric and Samoyedic languages. The stage shift in all these languages is mainly of the same nature and kind, evidently a common inheritance from olden times, proving the relationship between the Finno-Ugric and Samoyedic languages.

*Copy seen:* DLC; InU.

**26060. SETÄLÄ, EMIL NESTOR, 1864-1935.** Ueber die Bildungselemente des finnischen Suffixes *-ise (-inen)*. (Suomalais-ugrilainen seura. Aikakauskirja, 1888. v. 3, p. 133-38) *Title tr.:* On the formative elements of the Finnish suffix *-ise (-inen)*.

The author's conclusion is that the suffix *-ise* (*-inen*) consists of three specializing suffixes: (1) *-j8*, (2) *-n8*, and (3) *-ks8*, the last one often denoting a closer relation, or intimate connection.

**Copy seen:** DLC; InU.

**26061. SETÄLÄ, EMIL NESTOR, 1864-1935.** Ueber Quantitätswechsel im Finnisch-Ugrischen; vorläufige Mitteilung. (Suomalais-ugrilainen seura. Aikakauskirja, 1896. v. 14, no. 3, p. 1-53) **Title tr.:** On the stage shift in Finno-Ugric; preliminary information.

*Contains* one of the earliest studies on this very important and complicated problem in Finno-Ugric linguistics.

**Copy seen:** DLC; InU.

**26062. SETÄLÄ, EMIL NESTOR, 1864-1935.** Zur Frage nach der Verwandtschaft der finnisch-ugrischen und samojedischen Sprachen; über den gemeinsamen Wortschatz der finnisch-ugrischen und samojedischen Sprachen. (Suomalais-ugrilainen seura. Aikakauskirja, 1915. v. 30, no. 5, p. 1-104) **Title tr.:** On the question of the relationship between the Finno-Ugric and Samoyedic languages; the common source of words in Finno-Ugric and Samoyedic.

*Contains* comparative investigation of the two linguistic groups, and conclusion that the Finno-Ugric and Samoyedic languages are related and once had common roots. Some similarities exist in the system of sounds, suffixes, and in a considerable number of words; of which the last are chiefly treated in this paper.

**Copy seen:** DLC; InU.

**26063. SETÄLÄ, EMIL NESTOR, 1864-1935.** Zur Geschichte der Tempus- und Modusstambildung in den finnisch-ugrischen Sprachen. Helsingissä, 1887. xiv, 184 p. (Suomalais-ugrilainen seura. Aikakauskirja, 2) **Title tr.:** On the history of the tense- and mode-stem formation in Finno-Ugric languages.

This was the first neo-grammatical study in Finno-Ugric linguistics, a model of its kind, in which Lapp, Zyryan, Vogul, and Ostyak are also discussed. The work is divided in the following chapters: (1) Present, (2) Preterite, (3) Imperative, (4) Subjunctive, (5) Retrospect.

**Copy seen:** DLC; InU.

**26064. SEVERNYI KRAY, U.S.S.R. PLANOVAIA KOMISSIJA.** Materialy po raionirovaniu Severnogo kraia; opisanie kraia, ego okrugov i raionov. Arkhangel'sk, 1929. 183 p. **Title tr.:**

Materials on the division of the Northern Territory into districts. Descriptions of the Territory, its provinces and districts.

*Contains* data on the region (58°30'-69°52' N. 36°-66°6' E.) and its administrative divisions, in respect to: physical geography, mineral resources, agriculture, forestry and hunting; industry, trade and communications; education and culture; population statistics with per-capita data regarding land, cattle, etc; occupational data; literacy and education.

**Copy seen:** DLC

**26065. \*SH., L.** Aleuty. (In: Novyi éntsiklopedicheski slovar', [1911-16] v. 2, col. 40-43) **Title tr.:** The Aleuts.

*Comprehensive* account of these inhabitants of the Aleutian Islands: their area, origin and relationship to Eskimos; their coast-dwellers' way of life, fishing, handicrafts, kayaks, clothing and ornaments, implements and weapons; their communal dwellings, social organization based on family and clan; their wars, ceremonies, story-telling and games; religious beliefs and customs, the angekok, burial practices. Brief bibliography.

**Copy seen:** DLC

**26066. \*SH... G, L.** Éskimosy. (In: Éntsiklopedicheski slovar', 1890-1904. v. 41, p. 59-62) **Title tr.:** The Eskimos.

*Account* of this people (about 4000) distributed along the North American arctic coast and islands from Greenland and Labrador to Alaska; their physical, linguistic and sociological relationship to the Aleuts in the West; outline of theories of their origin, racial position and migration; their status as the earliest inhabitants of the American continent; cultural influence of the Asiatic boreal tribes; mode of living, reindeer-breeding, fishing and sealing; seasonal migrations; their stone-age implements and weapons; dwellings and social organization; sledges, kayaks and umiaks, domestic life, attitude to children and death; laws and customs; religious beliefs and concepts: shamanism; peculiar language characteristics; sculptures, folklore and songs; trade and industry.

**Copy seen:** DLC

**26067. SHABAD, THEODORE.** Geography of the U.S.S.R.; a regional survey. New York, Columbia Univ. Press, 1951. xxxii, 584 p., maps, tables.

*Basic* work for general readers and research purposes.

\*Probably Lev Ákovlevich Shternberg, 1861-1929.

Contains introductory survey summarizing geological history and structure, relief, hydrography, climate, soils, vegetation, and mineral resources of the U.S.S.R.; notes on political and human geography, and the economic pattern: agriculture, industry, transportation and commerce, etc. Then follows "the major portion of the book . . . a regional survey of the U.S.S.R. . . oblast' by oblast' in the sequence of location and importance, relief, climate, soils, vegetation, minerals, population, and settlement, and administration and economy." Includes outlines of the Soviet government's various developmental projects, e.g. the Northwest Metallurgical Combine, the chemical industry in Kola Peninsula, etc., also population estimates of the administrative-territorial divisions. Reviewed by C. J. Webster in *Arctic* Dec. 1951. v. 4, no. 3, p. 214-17.

**Copy seen:** DLC.

**26068. SHACKLETON, PHIL.** Whaling in Manitoba. (Forest and outdoors, Dec. 1947. v. 43, no. 12, p. 406-407, illus.)

Contains notes on the white whale and the whaling methods practiced in the Hudson Bay; protective measures adopted at the international meeting in Washington in 1946; beginning of whaling in Manitoba.

**Copy seen:** DLC.

**26069. SHAKHOV, A. A.** Zemledelie i kormodobyvanie Pechorskogo kraia i puti ikh razvitiia; issledovaniia i materialy. Moskva, 1936. 183 p., illus., maps. **Title tr.:** Agriculture and fodder-production of the Pechora region and ways of their development; studies and materials.

Contains an outline of the climate, soil and flora of the Komi district based on the literature and on investigations (particularly in the valley of the Pechora River and its left tributaries, the Izhma, Tsylna, Pizhma) of the Academy of Sciences expedition under Prof. Shennikov in 1934.

In his account of agriculture in the Pechora region, author deals with the area under cultivation, northern limits, relation to climate and land forms; also with cultivation practices, etc., potential increase in productivity by a northward extension of cultivation, and by improved methods. Types of soils are characterized and areas available for cultivation noted. Conditions of cattle breeding, fodder-growing areas and pasture lands are described and measures

recommended for their improvement. Bibliography (175 items). Summary and contents table in English.

**Copy seen:** DLC.

**SHALAUROV, NIKITA, fl. 1760, see** Belov, M. I. Novoe o pokhodakh Shalaurova. 1952. No. 20563.

**SHAMANIN, V. S., see** Sidorov, V. I., & others. Bystrokhodnyi samoreg. vetrodvigatel'. 1950. No. 26189.

**26070. SHAMSHINA, M.** O vliianii bystrogo sogrevaniia na kroviianoe davenie i dykhanie pri rezkol gipotermii. (Bulliten' eksperimental'noi biologii i meditsiny, 1943. t. 15, vyp. 1-2, p. 60-62) **Title tr.:** On the effect of rapid warming on the blood pressure and respiration in deep hypothermia.

Contains a study on rabbits made hypothermic with a snow-water mixture of about 6°-7° C. and then quickly warmed in water of 38°-42° C. Rapid re-warming at the peak of hypothermia caused a sharp increase in blood pressure. Despite apparent recovery, most animals died next day.

**Copy seen:** DLC.

**26071. SHARONOV, I. V.** Sublitoral'nye bentonicheskie gruppirovki/guby IArnyshnoi. (Akademiia nauk SSSR. Murmanskai biologicheskai stantsiia. Dal'niye Zelentsy. Trudy, 1948. t. 1, p. 155-63, illus., map) **Title tr.:** Sublittoral benthonic grouping of Yarnyshnaya Bay.

Following a brief characterization of this bay on the Murmansk coast (69°05'-69°09' N. 36°00'-36°05' E.) author gives some analysis of the deep-water animal groups living near the shores.

**Copy seen:** DLC.

**26072. SHARK, GILL.** When white fox migrates. (Country guide, Apr. 1951. v. 70, no. 4, p. 40)

Contains notes on food supply and survival of arctic animals; cycles of abundance in food animals (lemmings, mice, voles) and their effect on the cycles of the predators, foxes, lynx, etc.; migration of foxes towards the sea and their living from the remains of the polar bears' food.

**Copy seen:** DA.

**26073. SHARP, ROBERT PHILLIP, 1911-** Accumulation and ablation on the Seward-Malaspina Glacier system, Canada-Alaska. (Geological Society of America. Bulletin, July 1951. v. 62, p. 725-43, illus. (map, diagrs.), 2 plates)

Partial report on work done on Project Snow Cornice, 1948-49. The glacier system and physical setting near the international boundary between 59°40'–60°30' N. are described. The nature of accumulation and ablation and (in detail) the methods used for measuring both are discussed, as well as results of accumulation surpluses, daily gross ablation, material balance and wastage deficit below the firn limit. "Upper Seward Glacier is the principal source of nourishment for Malaspina Glacier, a piedmont sheet on the southern Alaska coastal plain. The system covers 1,650 sq. mi. and involves 450 cu. mi. of ice. Accumulation in the upper glacier is mostly by direct snowfall. The annual accumulation surplus was measured by digging pits in various parts of the surplus area and measuring thickness and density of the annual firn area. Ablation was measured by placing a calibrated rod in the firn to a depth of 50 cm. and noting the daily decrease. Annual surplus in the accumulation area was 69 in. of water in 1948-1949, 26 in. of water in 1947-48, 17 in. in 1946-1947, and 30 in. during 1945-1946. Daily gross ablation of firn in mid-summer on upper Seward Glacier averaged 0.30 in. of water. Daily gross ablation on clean Malaspina ice averaged 2.23 in. of water in 1949. A surplus of  $9 \times 10^{13}$  cu. in. of water resulted in the 1948-1949 budget year. The budget year 1947-1948 produced a deficit of  $2.144 \times 10^{14}$  cu. in. Under existing conditions a normal year produces a deficit of about  $2 \times 10^{14}$  cu. in. of water."—SIPRE. Bibliography (17 items).

*Copy seen:* DGS; DLC.

**26074. SHARP, ROBERT PHILLIP, 1911–** . Accumulation and ablation on the Seward-Malaspina glacier system, Canada-Alaska. (Geological Society of America. Bulletin, Dec. 1951. v. 62, p. 1512).

Abstract of paper presented at the Society's meeting in Los Angeles Mar. 23-24, 1951.

*Copy seen:* DGS.

**26075. SHARP, ROBERT PHILLIP, 1911–** . Features of the firn on upper Seward Glacier St. Elias Mountains, Canada. (Journal of geology, Nov. 1951. v. 59, p. 599-621, illus., incl. map, 2 plates)

Based on studies made at 60°23' N. 139°15' W. on the eastern part of upper Seward Glacier in Yukon Territory, as

part of Project Snow Cornice, during the summers of 1948 and 1949. "The diagenetic changes within firn, leading to an increase in density and producing structures such as ice layers, lenses, and glands, are discussed. Density increases irregularly downward in the Seward firn, with layers of exceptionally low density underlying impermeable horizontal ice masses. The mean rate of density increase with depth in the first 50 ft. is 0.0054/ft. The rate of density increase in time varies with depth and with the season. Mean density of the 1948-49 firn layer increased by 0.10 in 10 weeks during the summer of 1949, but mean density of the 1946-47 layer at a depth of 15-18 ft. increased only 0.021 in a year. On the upper Seward, the increase of firn density is caused about 25 per cent by meltwater freezing and about 75 per cent by compaction-settling within the zone of annual chilling, the upper 40-50 ft. Horizontal layers and lenses of ice in firn are formed by freezing of meltwater that has percolated downward and collected above or moved laterally along impermeable horizons. An estimated 20-25 per cent of the Seward firn is converted to solid ice by this process before passing beyond the depth of annual chilling . . ." (Author's abstract). Bibliography (24 items).

*Copy seen:* DLC.

**26076. SHARP, ROBERT PHILLIP, 1911–** . Glacial history of Wolf Creek, St. Elias Range, Canada. (Journal of geology, Mar. 1951. v. 59, p. 97-117, illus. (incl. map), 6 plates, fold. map).

Based on field studies in 1941 during the fourth Wood Yukon Expedition, and on records from fixed photo stations of W. A. Wood "occupied repeatedly" 1935-47. Evidence of late Wisconsin and latest Wisconsin or earliest post-Wisconsin drift, of an extensive shrinkage under xerothermic, post-Wisconsin period, a subsequent expansion and readvance in modern time; present-day shrinkage, retreat, stagnation, local expansion, advance and reactivation in the glaciers of Wolf Creek in southwestern Yukon Territory (61°15' N. 140°10' W.); with brief physical characterization of the valley region. Bibliography (98 items).

*Copy seen:* DGS.

**26077. SHARP, ROBERT PHILLIP, 1911–** . Glacier, historian of the

weather. (Research reviews, July 1949. p. 1-4, illus.)

Brief discussion of modern glaciological research, with reference to the Seward ice field research project, 1948-49.

*Copy seen:* DSI-M.

**26078. SHARP, ROBERT PHILLIP, 1911-** . Meltwater behavior in firn on upper Seward Glacier, St. Elias Mountains, Canada. (International Geodetic and Geophysical Union. Association internationale d'hydrologie scientifique. Assemblée générale de Bruxelles 1951. t. 1, p. 246-53, illus., *issued separately as:* California Institute of Technology, Division of the Geological Sciences. Contribution no. 563, 1952.)

Contains results of studies of the volume and percolation velocity of daily meltwater flow carried out by Project Snow Cornice during 1948-49. Demonstrates that vertical downward movement of meltwater occurs in a series of daily waves, and that variations in rate and volume of flow at different depths and at different times can be attributed to inhomogeneities within the firn. Concludes that year-around flow of large subglacial streams is sustained by what appears to be a normal water table relation within upper Seward glacier.

*Copy seen:* DGS.

**26079. SHARP, ROBERT PHILLIP, 1911-** . On ice; a report on Caltech's third season of field studies on Alaskan glaciers. (Science and engineering, *pub.* at the California Institute of Technology, Jan. 1952. v. 15, no. 4, p. 7-11, illus., map)

"Field studies on Malaspina Glacier were conducted in 1951 to determine how much glacier flow is due to intergranular shifting and how much to intergranular slippage. The crystallographic investigation of thin sections of surface ice by Rigsby indicated a complex, intergrown pattern excluding flowage by intergranular shifting if the same conditions existed in deeper regions of the glacier. The strong preferred optical orientation of the crystals and its relation to banding indicate slippage along glide planes in the individual crystals. Attempts were made to obtain the vertical velocity profile of the glacier to determine its mode of flowage. A vertical hole, 1000 ft. deep, was bored into the glacier with an electrically heated hot point. The drill pipe was left in the hole to measure

the subsequent deformation. A resurvey of the pipe is planned for 1952."—SIPRE.

*Copy seen:* CaMAI.

**26080. SHARP, ROBERT PHILLIP, 1911-** . Report of glaciological work on Project Snow Cornice in 1949. (American alpine journal, 1950. v. 7, p. 432-35, 2 plates)

Succinct statement of research accomplished on the Seward ice field, summer 1949, in measurement of the year's precipitation, density of firn layer, ablation, thermal studies, meltwater circulation, gravity determinations, and other glaciological problems.

*Copy seen:* DGS.

**26081. SHARP, ROBERT PHILLIP, 1911-** . Thermal regimen of firn on upper Seward Glacier, Yukon Territory, Canada. (Journal of glaciology, Mar. 1951. v. 1, p. 476-87, map, diagrs.) Based on observations during Project Snow Cornice, 1948-49.

"Temperatures were measured within the firn and ice of the upper reaches of the Seward Glacier to a depth of 204 ft. by means of the thermohms and a Wheatstone bridge. Thermal boring proved a feasible means of penetrating this glacier. The winter's chilled layer here develops a thickness of 40-50 ft. and attains temperatures of at least  $-13^{\circ}$  C. Deterioration of the chilled layer is rapid and irregular in the final phase and is attributed largely to freezing of percolating meltwater. Meltwater exerts such a powerful influence on thermal regimen that bodies of firn in environments with mean annual temperatures below freezing may, nonetheless, be geophysically temperate because of extensive warming by meltwater in summer. In both 1948 and 1949, the annual chilled layer on the upper Seward Glacier disappeared within the first 10 days of July. The slow development and rapid deterioration of diurnal crusts on firn and the lag effects at depth reproduce in miniature the behavior of the annual chilled layer. On the basis of its thermal regimen the upper Seward Glacier is geophysically temperate." (Author's Abstract) Bibliography (34 items).

*Copy seen:* DGS; DLC.

**26081A. SHARP, W. T.** Grid navigation and plotting charts. Ottawa, June 1952. 36 p. diagrs., tables. (Canada. Defence Research Board, DR Report no. 49, Arctic Research Section)

Contains a mathematical study of the principles of grid navigation in general, and that in arctic areas in particular. Included also are problems of navigational plotting charts and grid techniques for Canadian conditions, on the basis of conditions up to June 1951. Bibliography (22 items). **Copy seen:** CaMAI.

**26082. SHASKOL'SKIĬ, I. P.** O pervonachal'nom nazvanii Kol'skogo poluostrova. (Vsesoiūznoe geograficheskoe obshchestvo. Izvestiia, 1952. t. 84, no. 2, p. 201-204) **Title tr.:** On the original name of the Kola Peninsula.

Contains a study of names preceding that of "Kol'skiy poluostrov" which appeared only in the 19th century, the town of Kola having existed only since the mid-sixteenth century. The term "Tir" appeared as early as 1216, and remains, in several variants (Ter, Tre, Tur'ia, etc.), as the commonly used name, or name-component, for the area. Bibliographical footnotes.

**Copy seen:** DLC.

**26083. SHASTIN, N. R., and A. T. PETRJAJEFF.** Rachitis bei Kindern auf der Insel Kolguyev. (Jahrbuch für Kinderheilkunde, 1933. v. 140, p. 314-26, illus., tables) **Title tr.:** Rickets among children on Kolguyev Island.

Contains report of an expedition sent to Kolguyev (date not given) by the Children's Clinic of the Medical Institute of Smolensk, Director, N. R. Shastin, which examined all children on the island up to the age of 14. Following an outline of the area, its climate, inhabitants and their diet, the problem of rickets is dealt with: 100 percent of the children are affected, viz: 20.6 per cent with light cases, 8.5 per cent with moderate, and 41.5 per cent with severe cases. 70 per cent of children 3-7 years of age, are affected with severe rickets. The cause of high rickets incidence lies in the climate and the mode of life of the Nentsy (Samoyeds). It is urged that cod-liver oil be introduced into the diet to prevent a crippling of the whole population. The idea that rickets is a rare disease in the Arctic should be revised. Scurvy, tuberculosis, child-infections and acute digestive disturbances are almost absent; respiratory diseases, rare, the authors state.

**Copy seen:** DSG.

**26084. SHATKHAN, ABRAM SAVEL'EVICH.** Vnesniiâ torgovlâ v 5-letke.

S predisl. A. Mikoïana. Moskva, Gos. izd-vo, 1930. 135 p. **Title tr.:** Foreign trade in the five year plan. With an introduction by A. Mikoïan.

Report on exports and imports, the former including such predominantly northern products as fur and timber.

**Copy seen:** DLC.

**26085. SHATSKIĬ, N. S.** O drevneiishkii otlozheniakh osadochnogo chekhla Russkoï platformy i ob ee strukture v drevnem paleozoe. (Akademiia nauk SSSR. Izvestiia. Seriia geologicheskaiâ, Jan.-Feb. 1952. no. 1, p. 17-32, diagr., map)

**Title tr.:** Earliest deposits of sedimentary cover on the Russian Platform and its structure during the early Paleozoic.

Contains a study based largely on recent deep borings, going down to the crystalline base. Includes a brief history of the problem, and sections on: the structure of sub-Devonian deposits; the conditions of deposition and growth of the older layers of the sedimentary cover of the Russian Platform, and, on the formation of this Platform in the Caledonian period. Arctic regions of Russia and Europe are included. Bibliography (19 items).

**Copy seen:** DLC.

**SHAUB, H. G., see Rapaport, S. I., & others.** Control of blood flow to extremities. 1949. No. 25363.

**26086. SHAVROV, K. B.** V. I. Iokhel'son. (Sovetskaiâ étnografiia, 1935. no. 2, p. 3-15)

Contains a biographical sketch of Jochelson on the occasion of his 80th birthday, stressing his early revolutionary activities and his scientific explorations, particularly in 1895-97, with the Yakut expedition among the Yukaghirs on the Kolyma River, in 1899-1901 with the Jesup expedition among the Koryaks, and with the Rûbushinskii Kamechatka expedition of 1908-1911. Summary in French.

**Copy seen:** DLC.

**26087. SHAW, A. NORMAN.** Howard Turner Barnes (1873-1950). (Royal Society of Canada. Transactions, 1951. ser. 3, v. 45, Minutes and proceedings, p. 77-81, port.)

Contains a biographic sketch of the Canadian physicist Barnes, noted for his contributions in the field of ice engineering and physics. **Copy seen:** DGS.

**26088. SHAW, ED.** Clams. (Alaska sportsman, Nov. 1950. v. 16, no. 11, p. 10-13, 27-30, illus.)

Personal reminiscences of clam digging in Snug Harbor, Cook Inlet, 1923 (as related to, and written by Harry Seaman), giving information on clam fisheries methods; and describing the region.

**Copy seen:** DL.

**26089. SHCHEDRINA, Z. G.** K faune foraminifer Okhotskogo moria. (In: Akademiia nauk SSSR. Zoologicheskii institut. Issledovaniia dal'nevostochnykh morei, vyp. 2, 1950. p. 248-80, 2 plates) **Title tr.:** Contributions to the fauna of foraminifers of the Sea of Okhotsk.

Contains an account of over 100 species, some of them new, collected in 1932 from various depths (28-3500 m.). The forms are dealt with in taxonomic order, with localities, depth, distribution, etc., given. A separate section (p. 275-79) concerns the distribution of Foraminifera in the Okhotsk Sea. Bibliography (49 items).

**Copy seen:** DLC.

**26090. SHCHEDRINA, Z. G.** On the distribution of Foraminifera in the Kara Sea. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1938. nouv. ser., v. 19, no. 4, p. 319-22, table)

In the northern troughs, Atlantic, Greenland and boreal deep-sea forms were found. The southeast region has an original fauna including brackish forms indicating a possible influence of the Ob'-Yenisey waters. There are also indications that Atlantic waters penetrate by way of the polar basin. Based on material collected by ice-breakers in 1929-34 and by the *Sadko* 1935-36 in Kara Sea, also in parts of Greenland and Barents Seas and the Arctic Basin.

**Copy seen:** DLC.

**26091. SHCHEGLOVA, O. P.** K voprosu ob energii oledeneniia. (Vsesoiuznoe geograficheskoe obschestvo. Izvestiia, 1952. t. 84, vyp. 5, p. 503-505, diagr.) **Title tr.:** On the problem of the energy of glaciation.

Contains a physico-mathematical analysis and calculation, leading to an improved formula for estimating the energy of glaciation, when data on ablation, accumulation and altitude of snow-limit are known. Bibliography (8 items).

**Copy seen:** DLC.

**26092. SHCHEGOLEVA-BAROVSKAIA, TATIANA INNOKENT'EVNA.** Nauchnye rezul'taty Iakutskoi ekspeditsii Akademii nauk SSSR. Predstaviteli

sem. Mordellidae (Coleoptera), sobrannye v Iakutii. (Akademiia nauk SSSR. Zoologicheskii muzef. Ezhegodnik, 1931. t. 32, vyp. 3, p. 411-23) **Title tr.:** Scientific results of the Academy of Sciences U.S.S.R. Expedition to Yakutia. Species of the family (Coleoptera) collected in Yakutia.

Contains a list of 14 beetles of the fam. Mordellidae, partly based on collection of the Yakutsk Expedition of the Academy of Sciences; a survey of all representatives of Mordellidae known from Siberia with keys to the genera and species and descriptive notes on 24 species and three new forms; this list also includes some Yakutian species and *Anaspis infusata* from Kamchatka.

**Copy seen:** DLC; MH-Z.

**26093. SHCHEGOLEVA-BAROVSKAIA, TATIANA INNOKENT'EVNA.** Zhukomogil'shebiki (Necrophorini) fauny SSSR. (Akademiia nauk SSSR. Zoologicheskii institut. Trudy, 1932, pub. 1933. t. I, vyp. 2, p. 161-91, illus.) **Title tr.:** The burying beetle (Necrophorini) fauna of the U.S.S.R.

Contains keys for determination of the genera and species of necrophagous beetles (Coleoptera, Silphidae, trib. Necrophorini) of the U.S.S.R. and an enumeration of 29 species with synonymy, descriptions, Latin diagnoses of two new species and one new morph, critical notes and data on distribution; includes *Necrophorus (Necropter) respilloides* native to all northern regions of European and Asiatic U.S.S.R.

**Copy seen:** DLC; MH-Z.

**SHCHEKOLDUN, KONSTANTIN,** see Kharuzin, N. Russkie lopari. 1890. No. 23231.

**SHCHERBAKOV, A. V.,** see Zubkov, A. I. Novye dannye o drevesnoi rastitel'nosti. 1948. No. 27619.

**26094. SHCHERBINA, V. V.** Analizy Khibinskogo nefelina. (Akademiia nauk SSSR. Doklady, ser. A, 1931. no. 8, p. 216-22, tables) **Title tr.:** Analysis of the Khibiny nepheline.

Largely chemical analysis of nepheline and some related minerals.

**Copy seen:** DLC.

**SHCHETININA, L. A.,** see Suvorov, E. K., & L. A. Shchetinina. Promysel treski na Dal'nem Vost. 1935. No. 26547.

**26095. SHEA, JAMES E., and M. W. AYTON.** Cold weather operation of Diesel engines; a bibliography. Washington, D. C., Library of Congress, Technical Information Division, June 1952. vi, 58 p. Process print.

345 papers are listed (by author) with abstract of the subject matter. "Test data, experimental results, and operational experience are summarized but critical analysis of the data is not attempted." A subject index is added.

**Copy seen:** DLC.

**26096. SHEARD, CHARLES, and others.** Skin temperatures of the extremities under various environmental and physiological conditions. (*In:* American Institute of Physics. Temperature, its measurement and control in science and industry. New York, Reinhold Pub. Corp., 1941. p. 557-70) *Other authors:* M. M. D. Williams and B. T. Horton.

Contains account of a study made on individuals with normal circulation, when placed under temperatures ranging from 18°-34° C. It includes sections on: experimental standards and criteria; skin temperatures of the extremities in the basal state and under standard environmental conditions; relationship between increased heat production and temperature of the extremities; ingestion of food; role of extremities in heat dissipation under various environmental conditions; relative humidity and skin temperatures of the extremities. Bibliography (24 items). **Copy seen:** DLC.

**SHEARD, CHARLES, see also** Roth, G. M., & others. Relative rôles extremities dissipation heat. 1940. No. 25669.

**26097. SHEINMANN, IŮ. M.** Nekotorye cherty geologii severa Sibirskoi platformy. (Akademiia nauk SSSR. Izvestiia. Seriiã geologicheskaiã, 1946, no. 3, p. 15-28, text maps) **Title tr.:** Some geological features of the northern part of the Siberian platform.

Contains a study of the relations existing in tectonic vertical movements of the Siberian platform and the adjacent Byrangy geosyncline, on Taymyr Peninsula; data on the geological structure of various sections of Taymyr and a discussion on the connection of traps with geological structure. Summary in English. **Copy seen:** MH.

**26098. SHEINMANN, IŮ. M.** O novoi petrograficheskoi provinsii na severe

Sibirskoi platformy. (Akademiia nauk SSSR. Izvestiia. Seriiã geologicheskaiã, 1947, no. 1, p. 123-34, illus.) **Title tr.:** New petrographic province in the northern part of the Siberian platform.

"Establishes the presence of an ultrabasic rock province in the Meymecha-Kotuy River basin, [approx. 69° N. 99° E.] and discusses its petrographic and genetic relations with the adjacent trap rocks of the northwestern part of the Siberian platform. The ultrabasic province is characterized by the presence of augite masses, augite and augite-nepheline sills, and intersecting dunite intrusions, and by the development of ultrabasic and alkaline dikes. Chemical analyses are included." Geological Society of America, *Bibliography and index of geology*, 1951, pub. 1952, v. 16, p. 287. Summary in English. **Copy seen:** MH.

**26099. SHELDON, W. G.** Lepidoptera of the Swedish provinces of Jemtland and Lapland. (*Entomologist*, 1911. v. 44, p. 357-62; 1912, v. 45, p. 23-27, 65-69)

Contains a general account of the author's trip to Jemtland and Lapland in May 1911, geographic and meteorological notes on the regions and a list of 26 species and varieties of Lepidoptera, with descriptive notes and data on habitat and local distribution. Includes descriptions of several new aberrations. The material was collected mostly in the Abisko region of Torne Lappmark.

**Copy seen:** DLC: MH-Z.

**SHELEKHOV, GRIGORIŮ IVANOVICH, 1747-1775, see also** Andreev, A. I. Russ. discoveries in Pacific & N. America. 1952. No. 20215.

**SHELEKHOV, GRIGORIŮ IVANOVICH, 1747-1795, see also** Andreev, A. I. Russkie otkrytiã v Tikhom ok. i Sev. Amerike. 1948. No. 20216.

**26100. SHELESNYAK, MOSES CHAIM, 1909-** Arctic summer 1949. (Research reviews, Feb. 1950, p. 15-20, map)

Account in brief of the field projects throughout the North American Arctic, supported by the U. S. Office of Naval Research and sponsored by the Arctic Institute of North America in the summer of 1949. **Copy seen:** DSI-M.

**26101. SHELFORD, VICTOR ERNEST, 1877-**, and S. OLSON. Sere, climax and influent animals with special refer-

ence to the transcontinental coniferous forest of North America. (Ecology, July 1935. v. 16, p. 375-402, illus., incl. 4 p. of map-diagrs.)

Influent animals are defined as those having very obvious effects on the plants or animals of the community and on the habitat. This study of the usefulness of animals in the accurate characterization of the bionome (community in the biogeologic sense), includes the spruce-pine association in the interior valleys of northern British Columbia, the Yukon and Alaska as one of the areas of study. In specialized terminology for the trained ecologist, data are given to show distribution in relation to vegetation of such "major permeant (wandering widely) influents" as the moose, caribou, wolf, lynx, bear, wolverine, horned owl, and red fox, as well as many minor influents (porcupine, varying hare, etc.). Bibliography (68 items).

*Copy seen:* DGS.

**26102. SHENK, N. A.** Kul'ti posle otmorozhenii voennogo vremeni. (Sovetskaiâ medicîna, 1943. god 7, no. 5-6, p. 11-12, 4 fig.) *Title tr.:* Amputation-stumps following frostbite in war-time.

Contains a study of 115 cases (292 stumps) with data on the kinds of injuries, times of amputation, etc. Amputation took place largely on the periphery of the extremities; early necrectomy followed with early re-amputation have proven as methods of preference in serious frostbite; X-ray studies of the bones in the stump showed degenerative changes following frost-injury; the preparation of prostheses required (as in other cases) individual dealing with each patient.

*Copy seen:* DLC.

**26103. SHEPARD, BEATRICE.** Ascorbic acid (vitamin C) content locally grown Alaska vegetables and wild berries. (Alaska's health, Oct. 1948. v. 6, no. 10, p. 12-14)

Tabular data comparing vitamin C of Alaskan vegetables with U. S. Dept. of Agriculture average figures; and data on vitamin C content of native berries.

*Copy seen:* DLC.

**SHEPARD, FRANCIS P.,** see Samoilovich, R. L., & others. Geologiâ Arktiki. 1937. No. 25812.

**SHEPHERD, J. T.,** see Greenfield, A. D. M., & others. Circulatory response to cold in fingers. 1952. No. 22203.

**SHEPHERD, J. T.,** see Greenfield, A. D. M., & others. Heat loss from toes in cold water. 1951. No. 22204.

**SHER, M. L.,** see Derber, P. I., & M. L. Sher. Ocherki khoz. zhizni Dal'nego Vost. 1927. No. 21430.

**SHERER, BERNARD D.,** see Bell, L. G., & others. Frostbite in Korean casualties. 1952. No. 20554.

**SHERROD, JOHN,** see U. S. Library of Congress. Technical Information Division. Annotated bibliography on snow, ice & permafrost. 1951-52. No. 26960.

**26104. SHESTOV, V. I.** Sanitarnee obespechenie plavanii v severnykh morakh. Leningrad, Izd-vo Glavsevmorputi, 1939. 188 p., illus., fold. map, tables incl. 1 fold. *Title tr.:* Sanitary safeguards in sailing the arctic seas.

Contains a monograph in two parts with an introductory chapter on the history of arctic discovery. Pt. 1, Sanitary-prophylactic safeguards (p. 8-107) deals with the climatic conditions of arctic navigation (temperature, humidity, winds, etc.); living conditions on ships, including hygiene, baths, laundry and disinfection; clothing, head- and foot-gear, sleeping bags, eye-protection, etc.; nutrition and food, including provisioning, menus, nutritive values of foods, storm diets, preservation of food, cooking and baking facilities, sick diets, etc.; water supply and its hygiene; sanitation and waste disposal; daily routines; sanitary-prophylactic measures during the wintering of an ice-bound vessel. Pt. 2, Safeguards in evacuation for treatment (p. 108-139), deals with the medical staff and its selection, anthropometric work, etc.; turnover in walking cases, typical arctic diseases, their course and therapy; medical quarters and stores; organization of medical services, including evacuation of patients to land. Conclusions and recommendations are given (p. 140-62), *Appendices* (p. 163-83) on anti-scorbutic foods, medicines and their dosage, food preservation, food concentrates and their preparation, etc. Bibliography (54 items)

*Copy seen:* DLC.

**26105. SHIBANOV, N. V.** K ornitologicheskoi faune russkoi Laplandii. Moskva, 1927. 29 p., illus. (Obshchestvo ljubitelei estestvoznaniia, antropologii i étnografii, Moskva. Zoologicheskoe otделение. Memuary, 1927.

vyp. 3) **Title tr.:** On ornithological fauna of Russian Lapland.

**Contains** a description of 78 species of birds, collected mostly by S. S. Chetverikov in 1921 and 1926 during his trips to Khibiny Mts. in Kola Peninsula, and by some other explorers, with descriptive and ecological notes and localities; five species are new to the fauna of the Kola Peninsula. Summary in German. **Copy seen:** DLC; M-HZ.

**26106. SHIFRIN, G.** Novyi zhelezorudnyy raion za Pol'farnym Krugom (Zaimandrovskii zhelezorudnyy raion). (Karelo-Murmanskii kraj, 1933. v. 11, no. 3-4, p. 47-48, illus.) **Title tr.:** A new iron ore region beyond the Polar Circle (Zaimandrovskiy iron ore region).

**Contains** an account by the leader of an expedition organized by a Komsomol youth party in 1932 to explore the northern part of Moncha Tundra, and the discovery of the iron deposits. The location of the latter, extent, estimated amounts, iron content and prospects of utilization are discussed.

**Copy seen:** DLC.

**26107. SHILLING, E.** Khronika. (Étnografiia, 1928. no. 2, p. 136)

**Contains** (on p. 136) notes on the first ethnologico-anthropological expedition to Siberia, in 1927-29, to investigate the Tunguso-Manchurian tribes. The expedition, divided into several groups, was organized by the Anthropological Institute of the University of Moscow and headed by B. A. Kufitin. The western group worked at the northern end of Lake Baykal, investigated the reindeer Tungus tribe Kindigir in the village Dushkachan on the River Kicher, and the Tungus of the Shamagir tribe at the mouth of the River Tompy, excavated Tungus graves at the village of Daggary, later traveled to the upper Angara and further to the most numerous Chel'chigirsk tribe. The eastern group investigated the Orochis, Golds and Gilyaks.

**Copy seen:** DLC.

**26108. SHILOV, I. A.** K voprosu o pitanii rechnogo bobra, *Castor fiber* L. (Zoologicheskii zhurnal, 1952, t. 31, vyp. 6, p. 924-31, diagr.) **Title tr.:** On the problem of feeding of the river beaver *Castor fiber* L.

**Contains** a study of the food and feeding habits of the river beaver, based partly on observations in Kola Peninsula (Lapland reserve) and in Arkhangel'sk prov-

ince (Kondo-Sosvinsk reserve). Trees and shrubs felled or damaged by beavers are listed, and statistical data given for the years 1936-47. Seasonal changes in the beaver's diet are indicated (tables 1-2).

**Copy seen:** MH-Z.

**26109. SHIMKEVICH, VLADIMIR MIKHAILOVICH, 1858-1923.** Einigeneue Pantopoden. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1913. t. 18, no. 2, p. 240-48, plate III) **Title tr.:** Some new Pantopoda.

**Contains** descriptions of three new species and one new variety of sea spiders, including *Nymphon hogdsoni* n. sp. native to Okhotsk Sea and *N. longitarse* var. *minus* n. var. occurring in Okhotsk and the arctic seas.

**Copy seen:** DLC; MH-Z.

**26110. SHIMKEVICH, VLADIMIR MIKHAILOVICH, 1858-1923.** Uebersicht der von P. Schmidt und W. Brazhnikov in den ostasiatischen Ufergewässern gesammelten Pantopoden. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1906, pub. 1907, t. 11, p. 246-52, plate I) **Title tr.:** A review of Pantopoda collected by P. Schmidt and V. Brazhnikov in eastern Asiatic coastal waters.

**Contains** descriptive notes on four sea spiders, including *Nymphon brashnikovii* n. sp., collected by P. Schmidt and V. Brazhnikov in the Okhotsk Sea and one species found near Tokyo.

**Copy seen:** DLC; MH-Z.

**26111. SHIMKIN, DEMITRI BORIS, 1916-** Fort Yukon, Alaska, an essay in human ecology, I. A comprehensive survey of the Fort Yukon region in the Fourth Judicial Division; its resource pattern: problems and potential. Juneau, Alaska, Alaska Development Branch, March 1951. 50 p. reproduced from typewritten copy.

"This report summarizes available information on the ethnological and historical background of the Fort Yukon region; its present general significance, and its relationship to other districts in Alaska and Canada. The discussion of the natural environment stresses the known and potential resource patterns [water-power, agriculture, timber, mining with analysis of hydrological and soil conditions]. The demographic section reviews the age and sex structure, vital statistics and population potential;

seasonal and secular mobility; public health, and education. The principal economic subjects include sources of income; the annual cycle and interrelationships of economic activities; community incomes, prices, and expenditures. Finally comes a general evaluation of socio-economic conditions and problems at Fort Yukon, some possible approaches to their solution, and brief comparisons with the problems existing in other Arctic and sub-Arctic regions."—p. 1. The report is based on materials gathered in the summer of 1949: records of 42 household units, census data, commercial price lists and operation records, medical data, etc. Bibliography (38 items).

**Copy seen:** CaMAI.

**26112. SHIMKIN, DEMITRI BORIS, 1916-** . A sketch of the Ket, or Yenisei "Ostyak." (Ethnos, Stockholm, 1939. Bd. 4, no. 3-4, p. 147-76, illus., map)

*Contains* sketch of the main lines of culture of the Yeniseians or Kets, numbering about 1,300 and dwelling along both sides of the Yenisey River 60°-66° N. lat. Based chiefly on the researches of Russian ethnologists Tret'akov, Anuchin, and Dolgikh, it deals with: language, history, physical appearance, mode of life and technology, social organization, customs (birth, marriage, burial), religious beliefs and practices, shamans and their performances, myths of a great shaman.

**Copy seen:** DSI-M; InU.

**26113. SHIROKOGOROV, SERGEI MIKHAILOVICH.** Zadachi antropologii v Sibiri. (Akademiia nauk SSSR. Muzei antropologii i étnografii, Sbornik, 1916. t. 3, p. 15-48) **Title tr.:** Problems of anthropology in Siberia.

*Contains* remarks on physical anthropology: the races of Siberia, work already done and measurements made (mostly not then published) on individual Teleuts, Tungus, Chukchis, Koryaks, Kamchadals, Yukaghirs, Eskimos, Yakuts, Gilyaks, Samoyeds, Voguls, Ostyaks, Yeniseians, and others (p. 23-25). Discussion of methods for working the material obtained. **Copy seen:** DSI-M.

**26114. SHIRSHOV, PETR PETROVICH, 1905-** . Oceanological observations. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1938. nouv. ser., v. 19, no. 8, p. 569-80, diagrs.)

Report on deep soundings, bottom samples, salinity, current observations

and plankton taken by the Soviet North Pole Ice-floe Drifting Expedition, 1937-38, also remarks on the ice cover in the region of the station during the drift in latitude 87°-86° N. **Copy seen:** DLC.

**SHIRSHOV, PETR PETROVICH, 1905-** , see Khmyznikov, P. K., & P. P. Shirshov. Na Chel'us'kine. 1936. No. 23234.

**26115. SHISHKIN, BORIS KONSTANTINOVICH, 1886-** , editor, and others. *Ādovitye rasteniia lugov i pastbishch. Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1950. 524 p., illus. (incl. 206 fig. and text maps). (Akademiia nauk SSSR. Botanicheskiĭ institut)*

**Title tr.:** Poisonous plants of meadows and pastures.

A comprehensive work with 27 contributing authors and as editorial board: A. F. Gammerman, I. A. Gusynin, M. M. Il'in, B. N. Klopotov, V. L. Nekrasova, A. A. Nikitin, A. A. Fedorov, and chief editor B. K. Shishkin.

*Contains* an introductory review (p. 6-18) of poisonous plants and of the chemical characteristics of poisonous substances of vegetative origin. Then follows account of poisonous plants of meadows and pastures of the U.S.S.R. (p. 19-467) with brief descriptions, data on distribution, chemical analysis, poisonous substances and toxic properties. Subdivision of poisonous plants by clinical characteristics of poisoning is given (p. 468-85); also methods of the investigation and evaluation of hay (p. 486-97). Bibliography (278 items) and indexes of Russian and Latin names are appended. Many species, native to northern regions of the U.S.S.R. are included in this study.

**Copy seen:** DLC; MH-A.

**26116. SHISHKIN, IVAN KUZMICH, 1897-1934.** K flore Ol'skogo ostrova v Tauf'skoĭ gube Okhotskogo moriia. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1936. no. 18, p. 109-124, text map) **Title tr.:** Contribution to the knowledge of flora from Ol'skiy Isle in the Tauyskaya Bay of the Okhotsk Sea.

*Contains* a systematic list of 162 flowering plants and vascular cryptogams collected in 1928 by G. D. Dul'kelt on Zav'yalova (Ol'skiy) Island (54° N. 150°15' E.) in Tauyskaya Bay, northern Okhotsk Sea, with notes on habitat and

ecology; published posthumously with an introduction of N. E. Kabanov.

**Copoly seen:** DLC; MH-A.

**26117. SHISHKIN, IVAN KUZMICH, 1897-1934.** Materialy k flore Karaginskogo ostrova. (Akademifā nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1936. no. 20, p. 93-114, map) **Title tr.:** Materials on the flora of Karaginskiy Island.

*Contains a systematic list of 264 flowering plants and vascular cryptogams collected in 1928 by V. I. Razumovskii and L. D. Kanarin on Karaginskiy Island, 58°50' N. 164° E. in Bering Sea, with localities and notes on the habitat. Summary in English.*

**Copoly seen:** DLC; MH-A.

**26118. SHISHMAREF DAY SCHOOL.** Eskimo cook book; published by the Alaska Crippled Children's Association, Box 912, Anchorage, Alaska. 36 p. illus., mimeographed.

*Contains about 100 recipes: directions for preparing and cooking native Alaskan Eskimo foods of locally found meat, fish, berries, plants, etc., with accompanying sketches of the ingredients.*

**Copoly seen:** CaMAI.

**26119. SHITOV, A. N.** Neneſkiit olenevodcheskiit sovkhoz. (Sotsialisticheskoe zhivotnovodstvo, Nov. 1950. v. 12, no. 11, p. 61-67, illus., tables) **Title tr.:** The Samoyed reindeer-breeding sovkhoz.

*Contains an account of this state farm, one of the first sovkhozes in the Samoyed national district; its developments, and account of farms which spring up from it; the effects of World War II; post-war development; the herds and their composition; methods of herding and pasturing; selection; further plans.*

**Copoly seen:** DLC.

**26120. SHKLĀR, N. G.** Sokrovisheha bolot; ocherki o torfe. Moskva, Leningrad. Gosudarstvennoe energeticheskoe izd-vo, 1945. 182 p., illus. **Title tr.:** The treasures of the marshes; sketches on peat.

*Book for young people, dealing with the growth of the Soviet peat industry; the formation and biology of peat; its occurrence in the U.S.S.R. (including the North) and in general; peat digging and preparation; the living conditions of the peat-diggers and their social and cultural achievements during the Revolution.*

**Copoly seen:** DLC.

**26121. SHKLOVSKIĬ, I. S.** O mekhanizme возбужdeniia svecheniia polārnykh siāniĭ. (Akademifā nauk SSSR. Doklady, 1951. t. 81, no. 4, p. 525-28) **Title tr.:** On the excitation mechanism of light in auroras.

*Contains an atomic-physical presentation elucidating the fundamental regularities in auroral spectra: the preferential excitation of low-voltage levels and the anomalous behavior of the negative system of bands in the nitrogen molecule. Bibliography (9 items).*

**Copoly seen:** DLC.

**26122. SHLATER, G.** Ocherk gidroidnoi fauny i spisok meduz pribrezh'ia Solovetskikh ostrovov. (Vĭstnik estestvoznaniia, 1891. t. 2, no. 9, p. 334-42) **Title tr.:** An essay of hydroid fauna and a list of medusae of Solovetskiye Islands coastal waters.

*Contains a description of zoogeographic zones of the coastal waters of the Solovetskiye Islands in the White Sea, with characteristics of each zone and notes on various medusae inhabiting them.*

**Copoly seen:** MH-Z.

**26123. SHMATOK, I. D.** O kul'ture vitaminnykh rastenĭ v usloviakh Zapol'iar'ia. (Moskva. Glavnyi botanicheskiit sad Akademii nauk SSSR. Bŭlleten', 1951. vyp. 9, p. 117-26) **Title tr.:** On the cultivation of vitamin-containing plants under conditions prevailing in the polar region.

*Contains chemical analyses of the plants containing ascorbic acid, (onions, Heracleum) cultivated in the Polar-Alpine Botanical Garden, Khibiny, Kola Peninsula, under various conditions, (open ground, in the hot-house, etc.) and at different times of the growing season.*

**Copoly seen:** MH-A.

**SHMIDT, A. V.,** see Debeſ, G. F. Paleontologifā SSSR. 1948. No. 21380.

**26124. SHMIDT, FEDOR BOGDANOVICH, 1832-1908.** O novykh paleontologicheskikh materialakh s beregov Okhotskogo moria. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1900. ser. 2, chast' 38, Protokoly zasiĕdanĭ, p. 50-51). **Title tr.:** On new paleontological material from the coast of the Okhotsk Sea.

*Contains a preliminary report on paleontological materials collected by Dr. N. V. Slonin in the region of Tauy-*

okaya Guba in the Sea of Okhotsk and belonging to Cretaceous and Tertiary periods; these formations are almost identical with those of northern Sakhalin, Alaska and western coast of North America; several species of fossil molluscs found in these deposits are mentioned.

**Copy seen:** MH-Z.

**26125. SHMIDT, G. A.** Nakhozhdenie *Acanthobdella peledina* Grube v oz. Imandra. Murmansk, 1929. 2 p. (Leningradskoe obshchestvo estestvoispytatelei. Murmanskaya biologicheskaya stantsiya. Raboty, t. 3, no. [13]) **Title tr.:** Finding of *Acanthobdella peledina* Grube in Lake Imandra.

Note on a species of leeches found on salmonid fishes of Lake Imandra.

**Copy seen:** DLC.

**26126. SHMIDT, G. A.** Tip zarodyshvogo razvitiya *Crangonobdella murmanica* W. D. Zelensk. (Russkii zoologicheskii zhurnal, 1930. t. 10, vyp. 4, p. 5-17, plates 1-3) **Title tr.:** Embryonic development of *Crangonobdella murmanica* W. D. Zelensk.

Contains data on embryonic development of this marine worm parasitic on the decapod *Sclerocrangon boreas*; based on the study carried out at the Murman Biological Station, Kola Peninsula. Summary in German.

**Copy seen:** DLC; MH-Z.

**26127. SHMIDT, OTTO IUL'EVICH, 1891-** . Arkicheskie ekspeditsii 1932 goda. (Mirovedenie, 1932. no. 5, p. 20-24, illus.) **Title tr.:** Arctic expeditions of 1932.

Survey of Soviet achievements in the Arctic 1932, and the tasks of expeditions planned for 1932.

**Copy seen:** DLC.

**26128. SHMIDT, OTTO IUL'EVICH, 1891-** , and others. Nauchnaya khronika Dal'nego Vostoka. Ekspeditsiya Arkicheskogo Instituta vo Vladivostoke. (Akademiya nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1932. no. 3-4, p. 70-82) **Title tr.:** Scientific chronology of the Far East. The Expedition of the Arctic Institute in Vladivostok.

Lecture by members of the *Sibirskov* expedition (O. I. Schmidt, Russinov and others) held in Vladivostok in Nov. 1932 on their way back to Leningrad.

Contains a detailed itinerary of the *Sibirskov's* trip from Arkhangel'sk July-Oct. 1932; discussion of type of vessel

suitable for arctic navigation; the economic importance of the *Sibirskov's* one-season navigation of the Northern Sea Route; meteorological service in the Arctic; geographical and hydrological work of the expedition; marine biology, plankton and fisheries, and the geological work of the expedition.

**Copy seen:** DLC.

**SHMIDT, OTTO IUL'EVICH, 1891-** , see also Khmyznikov, P. K., & P. P. Shirshov. Na Cheluskine. 1936. No. 23234.

**SHMIDT, OTTO IUL'EVICH, 1891-** , see also Marakuev, A. V. Eksped. Arkicheskogo instituta. 1932. No. 24175.

**26129. SHMIDT, PETR IUL'EVICH, 1872-1949.** Ichthyological notes, I-II. (Akademiya nauk SSSR. Zoologicheskii muzej, Ezhegodnik, 1915, pub. 1916. t. 20, no. 4, p. 611-30, illus.)

Contains descriptions of a new genus *Ochotskia*, four new species of the family Cottidae and one of Cyclogasteridae and critical notes on four other little known fishes, collected in 1914 by the cruiser *Okhotsk* on the North Pacific Hydrographic Expedition in the Okhotsk Sea, near Sv.-Iony (St. Jonas) Island, with measurements of some specimens.

**Copy seen:** DLC; MH-Z.

**26130. SHMIDT, PETR IUL'EVICH, 1872-1949.** Migratsii ryb; izd. vtoroe, dopolnennoe. Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1947. 361 p., illus., maps. (Akademiya nauk SSSR. Nauchno-populjarnaya seriya) **Title tr.:** Migrations of fishes; second enlarged edition.

Contains chapters on: movement and migration; migrations of pelagic fishes; bottom fishes; fishes ascending into rivers; fresh-water fishes; migrations and the medium (conclusions). Large sections of the monograph deal with the species and areas of the great northern fisheries; herring of Barents, White and Kara Seas (p. 50-58), Kamchatka and northern Pacific (p. 59-76); cod of the region from Labrador to Novaya Zemlya (p. 130-55), Bering and Okhotsk Seas (p. 156-59); salmonid fishes of Kamchatka (p. 213-18; 232-49). Scattered references on other arctic forms are found throughout the book. Bibliography (over 250 items). **Copy seen:** DLC.

**26131. SHMIDT, PETR ĪUL'EVICH, 1872-1949.** O rode *Icelus* Kroyer (Cottidae). (Akademiā nauk SSSR. Izvestiā, seriā 7, Otdelenie matematicheskikh i estestvennykh nauk, 1935. no. 3, p. 412-18) **Title tr.:** On the genus *Icelus* Kroyer (Cottidae).

**Contains** a critical revision of ichthyological genus *Icelus* with a description, a table for the determination of the species and notes on systematics and teographic distribution of eight species, including *I. spatula* (Bering, Kara and Okhotsk Seas) *I. incinialis* (Bering and Okhotsk Seas) and *I. bicornis* (Barents Sea). Summary in English, p. 416-18.

**Copy seen:** DLC; MH.

**26132. SHMIDT, PETR ĪUL'EVICH, 1872-1949.** O zoogeograficheskom rasprostraneniī glavneiṣhikh promyslovyykh ryb v zapadnoi chasti severnogo Tikhogo okeana. (Akademiā nauk SSSR. Tikhookeanskii komitet. Būlleten', 1934. no. 3, p. 33-37) **Title tr.:** On the zoographic distribution of the chief marine food fishes in the western part of the North Pacific.

**Contains** data on geographic distribution of the eight most important species of commercial fishes in Bering, Okhotsk and Japan Seas, with occasional hydrological and economic notes; prepared as a report for the Fifth Pacific Science Congress in 1933. **Copy seen:** MH-Z.

**26133. SHMIDT, PETR ĪUL'EVICH, 1872-1949.** On the Pacific genera *Porocottus* Gill and *Crossias* Jordan and Starks (Pisces, Cottida). (Akademiā nauk SSSR, Izvestiā. Otdelenie biologicheskikh nauk. Seriā biologicheskaiā, 1940, no. 3, p. 377-78, illus.)

**Contains** a synopsis of the species of the genus *Porocottus* and a systematic list of seven species of this genus and one species of the genus *Microcottus* (*M. sellaris*) with synonymy, dimensions, critical notes and data on geographic distribution, including five species native to Bering Sea and northern part of the Okhotsk Sea. Summary in Russian.

**Copy seen:** MH.

**26134. SHMIDT, PETR ĪUL'EVICH, 1872-1949.** On the Pacific halibut. (Akademiā nauk SSSR. Doklady, 1930. ser. A, No. 8, p. 203-208, illus., tables)

Author concludes that the Atlantic halibut does not occur in the Pacific and is replaced there by a different species.

**Copy seen:** DLC.

**26135. SHMIDT, PETR ĪUL'EVICH, 1872-1949.** A revision of the genus *Crossias* Jordan et Starks (Pisces, Cottidae). (Akademiā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1929, pub. 1930. t. 30, vyp. 4, p. 503-506)

**Contains** a critical revision of four species of ichthyological genus *Crossias*, with a synopsis of species, critical notes and data on distribution; includes four species native to the Okhotsk Sea.

**Copy seen:** DLC; MH-Z.

**26136. SHMIDT, PETR ĪUL'EVICH, 1871-1949.** A revision of the genus *Gymnacanthus* Swainson (Pisces, Cottidae). (Akademiā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1927. t. 28, vyp. 1, p. 25-32)

**Contains** a synopsis of the species and a critical revision of five species and three new subspecies, some having circumpolar distribution, with synonymy, critical notes and a table of measurements of two species, *G. herzensteini* and *G. detrisus*.

**Copy seen:** DLC; MH-Z.

**26137. SHMIDT, PETR ĪUL'EVICH, 1872-1949.** A revision of the genus *Hemilepidotus* Cuvier (Pisces, Cottidae) and of the allied genera. (Akademiā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1929. t. 30, vyp. 3, p. 359-69)

**Contains** a synopsis of species and an enumeration of six species of ichthyological genus *Hemilepidotus*, with tables of measurements, synonymy and data on geographic distribution; includes five species distributed in Bering and Okhotsk Seas and Aleutian waters.

**Copy seen:** DLC; MH-Z.

**26138. SHMIDT, PETR ĪUL'EVICH, 1872-1949.** A revision of the genus *Icelus* Kröyer (Pisces, Cottidae) with the description of a new species from the Okhotsk Sea. (Akademiā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1927. t. 28, vyp. 1, p. 1-8, illus.)

**Contains** a key to the species of the ichthyological genus *Icelus* and a critical revision of six species, including a description of *I. ochotensis* n. sp. largely distributed in northern Okhotsk Sea, and critical notes on other species occurring in Okhotsk and Bering Seas, Aleutian and Svalbard waters. (*I. bicornis* subsp. *spitzbergensis*).

**Copy seen:** DLC; MH-Z.

**26139. SHMIDT, PETR ĪUL'EVICH, 1872-1949.** A revision of the genus

*Myoxocephalus* Til. (Pisces, Cottidae) and of some allied genera of the Pacific. (Akademiâ nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1929. t. 30, vyp. 3, p. 405-426, illus.)

Contains a synopsis of genera and species of ichthyological family Cottidae and a critical revision of 20 species, including 14 of the genus *Myoxocephalus*, with descriptions of *Porocottus sellaris ochotensis* and *Myoxocephalus verrucosus ochotensis* n. subsp., tables of measurement, critical notes and data on distribution; the majority of the species are distributed in the northern Okhotsk Sea, Bering Sea and Aleutian waters.

**Copy seen:** DLC; MH-Z.

**26140. SHMIDT, PETR ÎUL'EVICH, 1872-1949.** A revision of the genus *Triglops* Reinhardt (Pisces, Cottidae). (Akademiâ nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1929, pub. 1930. t. 30, vyp. 4, p. 513-23, illus.)

Contains a synopsis of four species of ichthyological genus *Triglops*, synonymy, a description of *T. pingelli pacificus* n. subsp., tables of measurements and data on distribution in Greenland, Barents, Kara, White, Okhotsk Seas.

**Copy seen:** DLC; MH-Z.

**26141. SHMIDT, PETR ÎUL'EVICH, 1872-1949.** Ryby Okhotskogo moriâ. Moskva-Leningrad, 1950. 370 p., 48 illus., 20 plates, tables, maps. (Akademiâ nauk SSSR. Tikhookeanskii Komitet. Trudy, t. 6) **Title tr.:** The fishes of the Sea of Okhotsk.

Contains a monographic study in 5 sections: the history of research on the Okhotsk fishes (p. 19-31); the ichthyofauna of this sea (p. 32-238); its composition and distribution (p. 239-89); its origin (p. 290-313); fish fauna of Okhotsk Sea and arctic ichthyofauna (p. 314-34). The 270 forms are treated (in section 2) in a taxonomic system, data for each species comprising synonyms, morphology (including that of variations and races); occurrence, geographical distribution, etc. Section 3 deals with numerical composition compared with other seas; distribution of the fauna according to families and groups; the problem of origin of the Okhotsk fishes is dealt with (sec. 4) from a geological-historical point of view, with the cooling of the sea assumed to be an important distributive factor. Finally Okhotsk fish fauna is analyzed along similar lines in its relation

to that of the arctic seas. Bibliography (about 350 items). **Copy seen:** DLC.

**26142. SHMIDT, PETR ÎUL'EVICH, 1872-1949.** Ryby Tikhogo okeana. Ocherk sovremennykh teorii i vozzrenii na rasprostraneniie i razvitiie fauny ryb Tikhogo okeana. Moskva, Pishchepromizdat, 1948. 123 p., maps, tables.

**Title tr.:** Fishes of the Pacific Ocean. An outline of present-day theories and views on the distribution and development of the fish fauna in the Pacific Ocean.

Contains sections on the tropic and temperate regions, the fishes of Japan and the Sea of Japan; the fishes of the Okhotsk Sea (p. 74-85); fishes of Bering Sea (p. 86-95); division of the fauna of the moderate region, its origin and influence on the arctic region (p. 96-120). Bibliography (about 60 items).

**Copy seen:** DLC.

**26143. SHMIDT, PETR ÎUL'EVICH, 1872-1949.** Three new deep-sea fishes from the Okhotsk Sea. (Akademiâ nauk SSSR. Comptes rendus (Doklady), 1938. nouv. ser., v. 19, no. 8, p. 653-56)

Preliminary report on fishes collected in 1932 by research vessels of the Pacific Scientific Institute of Fisheries and the Leningrad Hydrological Institute.

**Copy seen:** DLC.

**26144. SHMIDT, PETR ÎUL'EVICH, 1872-1949.** Two new species of *Arctedellus* Jordan from the Okhotsk Sea. (Akademiâ nauk SSSR. Comptes rendus (Doklady), 1937. nouv. ser., v. 15, no. 9, p. 571-72)

Described fishes (sculpins) were collected in 1932 and are semi-bathyal in nature.

**Copy seen:** DLC.

**26145. SHMIDT, PETR ÎUL'EVICH, 1872-1949.** Über die geographische Verbreitung der Fische in den östlichen Meeren. St. Petersburg, Tipogr. V. Kirshbaum, 1903. 10 p. (Extrait du Congrès International de pêche et de pisciculture 1902 à St. Petersburg, 1-ère partie. Comptes rendus des séances et rapports des sections générales et des sections I, II, III, IV.) **Title tr.:** On the geographic distribution of fishes in the eastern seas.

Contains some notes on the history of fish studies in Bering, Okhotsk and Japan Seas; data on geographic distribution and migration of fishes in these waters, with special reference to species com-

mercially important (salmon, herring, etc.); based partly on the author's investigations in Kamchatka and Sakhalin waters and the Sea of Japan.

**Copy seen:** MH-Z.

**26146. SHMIT, V.** K voprosu o nereshtishche treski v sovetskikh vodakh Beringova moriâ i morfologii lichinok Tikhookeanskoi treski. (Akademiâ nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1933. no. 1-2-3, p. 79-86, illus., text map) **Title tr.:** On the spawning grounds of the cod in Soviet waters of Bering Sea and the morphology of larvae of the Pacific cod.

**Contains** results of a study of the spawning grounds of codfish in Soviet waters of Bering Sea, with data on the larvae of *Gadus callarias macrocephalus* and centers of cod spawning in Bering Sea (Cape Lopatka-Cape Shipunskiy, Kronotskiy Bay, Kamchatka Bay and Karagin Islands waters); another known center is in American waters, near Alaska Peninsula coast. Summary in German.

**Copy seen:** DLC; MH-A.

**26147. SHMIT, V.** O poâvlenii i ras-selenii nekotorykh rodov semel'stva treskovykh v severnoi chasti Tikhogo okeana. (Zoologicheskii zhurnal, 1936. t. 15, vyp. 1, p. 175-83, illus.) **Title tr.:** On occurrence and distribution of some genera of cod in the northern part of the Pacific Ocean.

**Contains** a study of the origin of the ichthyological fauna in relation to the geological history of this basin, based on the investigation of present-day distribution of some genera (*Gadus*, *Theragra*, *Microgadus*, *Elegenus*, etc.) of the cod family (Gadidae) in the northern Pacific area, including Chukchi, Bering and Okhotsk Seas; bibliography (32 items). Summary in German.

**Copy seen:** DLC; MH-Z.

**26148. SCHNEIDER, A. R.** Naselenie Prieniskogo kraia. Krasnoïarsk, Izd. Bûro kraevedeniâ pri Sredne-Sibirskom otdele Russkogo geogr. ob-va, 1928.

22 p. (Biblioteka Prieniskogo kraev-veda, no. 15) **Title tr.:** The population of the Yenisey region.

**Census** of population according to geographical, ethnographic, occupational lines going back in some instances 100 years. Population movements; colonization and its prospects are discussed.

**Copy seen:** DLC.

**SHOEMAKER, RICHARD**, see Hazzard, J. C., & others. Cretaceous rocks. 1950. No. 22472.

**SHOEMAKER, RICHARD**, see also Hazzard, J. C., & others. Geology Kamishak B. area, Cook Inlet, Alaska. 1950. No. 22473.

**26149. SHOSTAKOVICH, V. B.** Der ewig gefrorene Boden Sibiriens. (Gesellschaft für Erdkunde zu Berlin. Zeitschrift, 1927. p. 394-427, illus., tables, diagrs.) **Title tr.:** Permanently frozen ground of Siberia.

**Describes** specifically (in part 1) the horizontal and vertical distribution of permafrost and the factors determining such occurrences; local conditions such as climate, soil, ground water, vegetation and topography; depth of upper permafrost horizons, temperature of frozen ground; and ground ice. In pt. 2, the effects of permafrost are discussed, on surface and underground waters including naleds and taryn; the occurrence of ground ice; development of valleys and marshes; also effects on vegetation and practical problems in engineering. Bibliography (34 items). **Copy seen:** DLC.

**26150. SHOSTAKOVICH, VLADIMIR BOESLAVOVICH, 1870-** Zametka o temperaturnoi anomalii pervoi poloviny zimy 1904-5 gg. v Vostochnoi Sibiri. (Akademiâ nauk SSSR. Izvestiâ, 1904. ser. 5, t. 21, no. 4, p. 247-50, text map)

**Title tr.:** A note on anomalous temperature of the first half of the winter of 1904-1905 in eastern Siberia.

**Contains** data on the exceptionally mild winter of 1904-05 in eastern Siberia, with a table of anomalous fluctuations (p. 248), a map of isometric lines (p. 249) and some discussion of the causes of this phenomenon. **Copy seen:** MH.

**SHOULEJKIN, W. W.**, see SHULEIKIN, V. V.

**26151. SHRENK, LEOPOLD IVA-NOVICH, 1826-1894.** Ob inorodtsakh Amurskago kraia; t. pervyi. Chast' geograficheskoi-istoricheskoi i antropo-étnograficheskoi. Sanktpeterburg, Izd. Imperatorskoi Akademii nauk, 1883. xii, 323 p., 9 plates (incl. 1 fold. map).

**Title tr.:** The natives of the Amur region; vol. 1. Geographic-historical and anthropo-ethnological parts.

**Contains** a sketch of the areas and limits of settlement of the natives (Gilyaks, Goldi, Oroks, Orochi, Ainu, etc.); the

spread of the Chinese, Japanese and Russians over the area (p. 11-93); movements and "transfers" of Amur people, according to Russian, Japanese and Chinese sources (p. 94-202); the origin and branches of the native population according to language, facial and skull structure; the Paleo-Asiatic and the Tungus tribes (p. 203-323). Bibliographical footnotes.

**Copy seen:** DLC.

**26152. SHRENK, LEOPOLD IVA-NOVICH, 1826-1894.** Ob inorodtsakh Amurskago kraia; t. tretii. Etnograficheskaya chast', vtoraya polovina: Osnovnyia cherty semeinoi, obshchestvennoi i vnutrennei zhizni. Sanktpeterburg, Izd. Imperatorskoi Akademii nauk, 1903. xvii p., 147 p., illus., plates 47-70. **Title tr.:** The natives of the Amur region; vol. 3. Ethnographical part, second half: basic characteristics of family, social and domestic life.

**Contains,** in a monographic treatment of the Gilyaks, Goldi, Orochi and Ainu: chapters on family and marital relations; domestic work and occupations; childbirth, nursing and upbringing of children; slaves; inheritance; blood-revenge (p. 1-31). Public life; political conditions and the framework of law; tribal communism; inviolability of property; hospitality; travel; sayings and superstitions regarding the weather; courtesy; business relations; time reckoning; song, music, dance, games (p. 31-63). Bear festivals, their religious and ceremonial significance; local variations of the feast; its various phases, etc. (p. 64-103). **Appendix** (p. 107-147) gives notes on: the religious concepts of the Amur natives; their beliefs in regard to the after-life; funeral ceremonies and rites. Vol. 2 of this work has not been located.

**Copy seen:** DLC.

**26153. SHRIBER, WILLIAM J.** Effect of hypothermia on cardiodynamics. (Federation proceedings, Mar. 1949. v. 8, p. 146)

**Contains** a brief report of observations on dogs cooled in 2°-4° C. water; intracardiac pressures were recorded until death and an analysis of them is presented.

**Copy seen:** DLC.

**SHRIBER, WILLIAM J.,** see also Hegnauer, A. H., & others. Cardiovascular response of dog to hypothermia. 1960. No. 22478.

**26154. SHTAKEL'BERG, ALEKSANDR ALEKSANDROVICH.** Kratkiy obzor evropeiskikh vidov semeistva Macroceratidae (Diptera, Nematocera). (Entomologicheskoe obozrenie, 1945, t. 28, no. 1-2, p. 17-29, illus.) **Title tr.:** A brief review of European species of the family Macroceratidae (Diptera, Nematocera).

**Contains** a synopsis of 31 European species of nematoceros family Macroceratidae, including Russian and English diagnoses of two new species; *Macroceraterrima* n. sp. (southern Island of Novaya Zemlya) and four other species are native to northern regions of Europe (Kola Peninsula, Lapland and Northern Ural).

**Copy seen:** MH-Z.

**26155. SHTAKEL'BERG, ALEKSANDR ALEKSANDROVICH.** Krovososushenie komary (sem. Culicidae) Soŭza SSR i sopredel'nykh stran. Leningrad, Izd-vo Akademii nauk, 1927. vi, 169 p., illus. (In: Akademii nauk SSSR. Zoologicheskii institut. Opredeliteli po faune SSSR. no. 1) **Title tr.:** Mosquitoes (fam. Culicidae) of the U.S.S.R. and adjacent countries.

**Contains** a morphological sketch of mosquitoes, brief notes on collecting, mounting and preservation of collected material on mosquitoes, keys to eleven genera of Culicidae (insects and larvae) and an enumeration of 103 species with synonymy, descriptions, critical notes and data on distribution in the U.S.S.R. and in other countries; includes many species native to arctic regions.

**Copy seen:** DLC; MH.

**26156. SHTAKEL'BERG, ALEKSANDR ALEKSANDROVICH, and others.** Opredelitel' mukh evropeiskoi chasti SSSR. Leningrad, Izd-vo Akademii nauk SSSR, 1933. 742 p., illus. (In: Akademii nauk SSSR. Zoologicheskii institut. Opredeliteli po faune SSSR. no. 7) **Title tr.:** Survey of the flies of the European part of the U.S.S.R.

**Contains** a brief morphological sketch of flies of 60 families, found in the European section of the U.S.S.R.; a table for the determination of families, p. 26-40; keys for the genera and species, p. 41-716; and an alphabetical list of Latin names, p. 717-42. Includes about 3000 species, some native to Arkhangel'sk region and Kola Peninsula (marked as "extreme North"). A few families are worked out by various specialists: fam. Larvivoridae, subfam. Sarco-

phaginae, Calliphorinae and groups Salmacia and Larvivora by B. B. Rodendorf; genus *Tabanus*, by N. G. Olsuf'ev; group Tachina, by L. S. Zimin and the index by N. S. Shtakel'berg.

**Copy seen:** MH-Z.

**26157. SHTAKEL'BERG, ALEKSANDR ALEKSANDROVICH.** Palearkticheskie vidy roda *Scellus* Lw. (Diptera, Dolichopodidae). (Entomologicheskoe obozrenie, 1951. t. 31, no. 3-4, p. 595-608, illus.) **Title tr.:** Palaearctic species of the genus *Scellus* Lw.

**Contains** tables for the determination of the species of dipterous genus *Scellus* (males and females) and description of ten palaearctic species (five described as new), including *Scellus alactaga* n. sp. and *S. gallicanus* from Yakutia and *S. spinimanus*, native to Lapland, Arkhangel'sk province, northern Siberia, Yakutia and spreading to North America (Hudson Bay region).

**Copy seen:** MH-Z.

**26158. SHTAKEL'BERG, ALEKSANDR ALEKSANDROVICH.** Species palaearcticae generis *Cynorrhyna* (Diptera, Syrphidae). (Konowia, 1928. Bd. 7, Heft 3, p. 252-58) **Title tr.:** Palaearctic species of the genus *Cynorrhyna*.

**Contains** a table for the determination of five species of the dipterous genus *Cynorrhyna*, based on the study of the syrphid collection in the Zoological Museum of the Academy of Sciences of the U.S.S.R., and their Latin diagnoses. Includes *C. gallax* from Solovetskie Island (White Sea) and *C. eoa* native to Kamchatka Peninsula.

**Copy seen:** MH-Z.

**SHTAKEL'BERG, ALEKSANDR ALEKSANDROVICH,** see also Chernovskii, A. A. Opredelitel' lichinok komarov. 1949. No. 21176.

**SHTAKEL'BERG, NATALIYA SERGEEVNA,** see Shtakel'berg, A. A., & others. Opredelitel' mukh evropeiskoi chasti SSSR. 1933. No. 26156.

**26159. SHTEGMAN, BORIS KONSTANTINOVICH.** O printsipakh zoogeograficheskogo deleniia palearktiki na osnove izucheniia tipov ornitofauny. (Akademiia nauk SSSR. Izvestiia. Otdelenie matematicheskikh i estestvennykh nauk. Seriia biologicheskai, 1936. no. 2-3, p. 523-63, text maps 1-7) **Title tr.:** Principles of zoogeographic division

of the Palaearctic on the basis of the study of the types of ornithological fauna.

**Contains** proposal of a new method of zoogeographic mapping, taking into consideration data on the ecology and historical geography of the ornithological fauna; includes characterization of the arctic and Siberian, or taiga, types of avifauna; chiefly of Europe and Asia. Summary in German.

**Copy seen:** DLC; MH.

**26160. SHTEGMAN, BORIS KONSTANTINOVICH.** O proiskhozhdenii ornitofauny talgi. (Akademiia nauk SSSR. Doklady, ser. A, 1931. no. 13, p. 350-57) **Title tr.:** On the origin of the avifauna of the taiga.

The subject is treated mainly in the light of recent geological events.

**Copy seen:** DLC.

**26161. SHTEGMAN, BORIS KONSTANTINOVICH.** Osnovy ornitogeograficheskogo deleniia Palearktiki. (Akademiia nauk SSSR. Izvestiia. Otdelenie matematicheskikh i estestvennykh nauk. Seriia biologicheskai, 1937. no. 4, p. 1149-69, 5 text maps) **Title tr.:** Fundamentals of the ornithogeographic subdivision of the Palaearctic.

**Contains** a report delivered to the meeting of Biological Group of the Academy of Sciences U.S.S.R. for the study of Zoological Problems (Dec. 2-4, 1936), with a criticism of the zoogeographic zoning then in use, and proposal for a new method of subdivision of the Palaearctic from the viewpoint of geography of bird distribution, this method taking in consideration the origin and ecology of certain types of avifauna; the report and following discussion dealt with arctic and subarctic regions. Summary in German.

**Copy seen:** DLC; MH.

**26162. SHTEGMAN, BORIS KONSTANTINOVICH.** Die palaarktischen Formen des Merlinsfalken. (Akademiia nauk SSSR. Izvestiia, seriia 7, Otdelenie fiziko-matematicheskikh nauk, 1929, no. 6, p. 585-98) **Title tr.:** Palaearctic forms of merlins.

**Contains** a study of geographic races of the European merlin, *Aesalon (Falco columbaris)*, including *A. c. aesalon* native to Kola Peninsula and Arkhangel'sk province, *A. c. regulus* occurring in the lower Yenisey River and Taymyr Peninsula, and *A. c. pacificus* n. ssp. found in Ayan and Udskey Ostrog, on the coast of the Okhotsk Sea. **Copy seen:** MH.

**26163. SHTEGMAN, BORIS KONSTANTINOVICH.** Ptitsy SSSR. Voronoye ptitsy. Leningrad, Izd-vo Akademii nauk SSSR, 1932. 32 p., illus. (In: Akademiia nauk SSSR. Zoologicheskii institut. Opredeliteli po faune SSSR. no. 6) **Title tr.:** The birds of the U.S.S.R. The ravens.

Contains a key to the species of passerine fam. Corvidae and descriptions of 15 species and numerous varieties and forms of these birds with dimensions, critical notes and data on Russian and total distribution; includes many species native to arctic regions of the U.S.S.R.

**Copy seen:** MH-Z.

**26164. SHTEGMAN, BORIS KONSTANTINOVICH.** Sovetskaya ornitologiya za dvadtsat' let. (Akademiia nauk SSSR. Izvestiia. Otdelenie matematicheskikh i estestvennykh nauk. Seriya biologicheskaya, 1937, no. 5, p. 1641-66, text map) **Title tr.:** Soviet ornithology during twenty years.

Contains data on ornithological investigations in various regions of the U.S.S.R. from 1917 to 1937, including western (Yenisey River region) and eastern Siberia (Yakutia, Okhotsk coast, Anadyr region), Novaya Zemlya and Kolguyev Island, p. 1645-48, and the study on bird ecology, migration and distribution. Summary in English.

**Copy seen:** MH.

**26165. SHTEINBERG, EVGENII L'VOVICH 1902-** Zhizneopisanie russkogo moreplavatel'sia Iurii Lisianskogo, soderzhashchee istoriiu ego sluzhby na voennom flote rossil'skom, ego plavaniia v Zapadnuu i Vostochnuu Indii, Severnuu Ameriku i Iuzhnuu Ameriku, a takzhe o znamenitom pervom voiazhe russkikh moriakov vokrug sveta s 1803 po 1806 god. Moskva, Voen. izd-vo, 1948. 212, [4] p., port., fold. map. **Title tr.:** Biography of the Russian navigator Iurii Lisianskii, including a history of his service in the Russian Navy, his trips to the West and East Indies, North and South America, and also the first around-the-world voyage of Russian navigators from 1803 to 1806.

Life and work of Iurii Fedorovich Lisianskii, 1773-1837; the first circumnavigation of the globe in 1803-1806, by the *Neva* under Krizenshtern (in command), the former calling at Sitka (Baranof) and Kodiak Islands in Alaska, the latter at Petropavlovsk and cruising

in Kamchatkan and Okhotsk waters. See also *Arctic Bibliography*, No. 9377 and 10208.

**Copy seen:** DLC.

**26166. SHTERNBERG, LEV IAKOVLEVICH, 1861-1927.** Gil'yaki, orochoi, gol'dy, negidal'sy, ainu; stat'i i materialy. Pod red. i s predisl. I. A. Al'kor (Koshkina). Khabarovsk, Dal'giz, 1933. xxxviii p. 1 l., 740 p., illus., port. **Title tr.:** The Gilyaks, Orochi, Goldi, Negidals, Ainu; works and materials. Under editorship and with introduction by I. A. P. Al'kor (Koshkin).

Contains introduction "I. I. A. Shternberg as an investigator of the peoples of the Far East," and record of his specialized papers. Then follows Shternberg's comprehensive ethnographic study of these tribes, inhabitants of the Amur region and Sakhalin, covering their territory, origin, social organization and religion, language and legends; customs and life in general. Includes chapters on the Gilyaks and their social organization; materials on the ethnography of the Amur and Sakhalin Gilyaks; the Orochi of the Tartar Strait (with an Orochi ethnographical dictionary); the Goldi; the Negidals (with a Negidal dictionary); the Ainu problem and the Inau cult among them.

**Copy seen:** DLC.

**SHTERNBERG, LEV IAKOVLEVICH, 1861-1927, see also** Castrén, M. A. Pamiat' M. A. Kastrena. 1927. No. 21135.

**SHTERNBERG, LEV IAKOVLEVICH, 1861-1927, see also** No. 26065-26066.

**26167. SHTERNBERG, S. A.** Lev Iakovlevich Shternberg i Muzei antropologii i etnografii akademii nauk. (Akademiia nauk SSSR. Muzei antropologii i etnografii. Sbornik, 1928. t. 7, p. 31-70) **Title tr.:** Lev Iakovlevich Shternberg and the Museum of Anthropology and Ethnography of the Academy of Sciences.

Contains account about Shternberg's field work among the Gilyaks, Ainu, Golds, Orochis and Tungus. Later he was head of this Museum for more than 25 years and made it famous. The Siberian division, for example, has 14,876 objects and includes a special section on the Siberian shamanism. Summary in German.

**Copy seen:** DLC.

**SHUKERS, CARROLL FRANKLIN, 1905-**, see Totter, J. R., & C. F.

Shukers. Nutrition surveys of Eskimos: physical examination & laboratory tests. 1948. No. 26788.

**26168. SHUKHOV, I. N.** Materialy k avifauně Turukhanskago kraja. (Akademija nauk SSSR. Zoologicheskij muzej. Ezhegodnik, 1915. t. 20, no. 1, p. 103-126, illus., fold. map) *Title tr.:* Contribution to the avifauna of the Turukhansk district.

*Contains* a general account of the author's trip to the Turukhansk region of Krasnoyarskiy Krai in 1914, data on the flora and fauna and a systematic list of 67 birds collected or observed, with tabular survey of their distribution in the basins of Ob', Taz and Yenisey Rivers. *Copied seen:* DLC; MH-Z.

**26169. SHUKHOV, I. N.** Otchet po komandirovke v Turukhanskij kraj v 1914 g. (Akademija nauk SSSR. Zoologicheskij muzej. Ezhegodnik, 1915. t. 20, no. 2, p. 0126-0130) *Title tr.:* Report on a mission to Turukhansk district in 1914.

*Contains* an itinerary of the author's trip to the Turukhansk region in 1914, data on the zoological collections made, and scattered notes on the landscape and fauna. *Copied seen:* DLC; MH-Z.

**26170. SHUKHOV, I. N.** Pticy Obdorskago kraja. (Akademija nauk SSSR. Zoologicheskij muzej. Ezhegodnik 1915. t. 20, no. 2, p. 167-238, text map) *Title tr.:* The birds of Obdorsk district.

*Contains* the results of the author's four ornithological trips to Obdorsk (i. e. Salekhard) and adjoining part of Tobolsk province in 1911-14, with a general account of the traveling, brief physico-geographic data on the region, and a systematic list of 160 birds observed by the author or described by other explorers; also two additional lists of birds found in Ishim (56° N. 69° E.) and vicinity, and near Tobolsk (58° N. 68° E.) representing 25 and 35 species respectively. *Copied seen:* DLC; MH-Z.

**26171. SHULEIKIN, VASILII VLADIMIROVICH.** The analysis of the drift of the "North Pole" station. (Akademija nauk SSSR. Comptes rendus (Doklady), 1941. nouv. ser., v. 31, no. 9, p. 886-91, graphs)

*Mathematical analysis* of the 274-day drift (of the Soviet ice-floe drifting station, from the vicinity of the North Pole southwards along the east coast of

Greenland to 70°54' N. 19°48' W. in 1937-38) and its relation to the wind. Bibliography (8 items).

*Copied seen:* DLC.

**26172. SHULEIKIN, VASILII VLADIMIROVICH.** Atlanticheskie vody i klimat SSSR. (Akademija nauk SSSR. Izvestija, seria 7, Otdelenie matematicheskikh i estestvennykh nauk, 1935. no. 8-9, p. 997-1020, diagrs., plates 1-13)

*Title tr.:* Atlantic waters and the climate of the U.S.S.R.

*Contains* the results of the author's attempt to determine the amount of heat passing from the sea to the continent over the coast line. Amounts are calculated for three principal lines: Arkhangel'sk - Turga, Arkhangel'sk - Yakutia and Laptev Sea - Yakutia. Isanoms of mean temperatures for the whole year and for every month are charted (sketch maps 1-13) and a general analysis given of the charts and data presented on the influence of the sea as a heat accumulator. Summary in English. *Copied seen:* DLC; MH.

**26173. SHULEIKIN, VASILII VLADIMIROVICH.** Ocherki po fizike morja. Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1949. 334 p., 189 illus., diagrs. (1 fold col.), maps (1 fold.). (Akademija nauk SSSR. Serija "Itogi i problemy sovremennoj nauki") *Title tr.:* An outline of marine physics.

*Contains* chapters on the history of marine physics; the sun as source of movements in the sea and the atmosphere; the heat balance of the sea and its significance; climatic relations between land and sea; oscillating phenomena in the system: ocean-atmosphere-continent; currents; waves; tides; the color of the sea; sound, ultrasound and infrasound in and above the sea; the movement of marine animals. The monograph contains numerous, scattered references to the arctic seas. *Copied seen:* DLC.

**26174. SHUL'GINA, V. V.** Spirei, ispytannye v kul'ture v Leningrade. (Akademija nauk SSSR. Botanicheskij institut. Trudy, 1952. Ser. 6, Introduktsija rastenij i zelenoe stroitel'stvo, vyp. 2, p. 131-49, illus.) *Title tr.:* *Spiraea* tested for culture in Leningrad.

*Contains* data on phenological characteristics and hardness of 31 species of *Spiraea* introduced into cultivation in the Botanical Garden of the Academy of Sciences in Leningrad in 1948-50,

(see tables 1-4). Brief descriptions and notes on cultivation are given. *S. adicifolia*, native to Alaska and Siberia, and *S. media* inhabiting northeastern Asia were among the species used.

**Copy seen:** MH-A.

**26175. SHUL'MAN, R. E.** Parazitofauna promyslovyykh ryb Belogo morya. (Akademiya nauk SSSR. Gel'mintologicheskaya laboratoriya. Trudy, 1950. t. 4, p. 275-78) **Title tr.:** Parasitic fauna of commercial fishes of the White Sea.

Contains a summary of a study for an academic thesis on the commercial fishes of 26 genera. The investigation was carried out in 1945 and 1947 near Kemi on the coast of the White Sea. 83 species of parasites of various orders (Cestoda, Nematoda, Monoginoidea, Digeneoidea, etc.) were found, six new species described, the life cycle of some parasites, their ecology and zoogeography studied.

**Copy seen:** MH-Z.

**26176. SHUL'PIN, L. M.** O rasprostraneniye *Cinclus pallasi pallasi* Temm. v vostochnoi Sibiri. (Akademiya nauk SSSR. Izvestiya, seriya 7, Otdeleniye matematicheskikh i estestvennykh nauk, 1931. no. 10, p. 1371-94) **Title tr.:** The distribution of *Cinclus pallasi pallasi* Temm. in eastern Siberia.

Contains a study of the geographic distribution of a dipper, *Cinclus pallasi pallasi*, a bird inhabiting the taiga region of the Okhotsk Sea coast and spreading to the Commander Islands but now extinct on Kamchatka Peninsula. Comparison is made with distribution of American species of the same and related genera (*Nannus*). Summary in English.

**Copy seen:** MH.

**26177. SHUMACKER, HARRIS B., Jr.** Early treatment of frostbite. (Research reviews, Mar. 1950. p. 5-9, diagr.)

Review for the medical man and physiologist, of research on frostbite done during World War II, exclusive of the U.S.S.R.

**Copy seen:** DSI-M.

**26178. SHUMACKER, HARRIS B., Jr., and others.** Studies in experimental frostbite, I. The effect of heparin in preventing gangrene. (Surgery, 1947. v. 22, p. 900-901, tables, diagrs.) **Other authors:** Beverly H. White, Earle L. Wrenn, Jr., Alfred R. Cordell and Thomas F. Sanford.

A study undertaken to verify earlier claims that heparinization is very effective

in preventing gangrene following frostbite. Domestic rabbits were used, the hind limb being immersed in an ether dry-ice mixture; degree of coldness of the mixture, as well as duration of exposure, varied. Cases in which solid freezing of limb did not take place were discarded. Various amounts of heparin in aqueous solution were administered intermittently by intravenous route. Details of each experiment; dressing; etc., are given. The results lead to the conclusion that "heparinization is a valuable, but not an invariably reliable therapeutic aid in the prevention or limitation in extent and degree of gangrene in experimental frostbite of rabbits." Bibliography (6 items).

**Copy seen:** DSG.

**26179. SHUMACKER, HARRIS B., Jr., and others.** Studies in experimental frostbite, II. Arteriograms. (Yale journal of biology and medicine, 1948. v. 20, p. 519-31, illus., tables) **Other authors:** Beverly H. White and Earle L. Wrenn.

Report on freezing experiments made on dogs' and rabbits' hind limbs for various periods and by a variety of methods, followed by making of arteriograms (technical details on p. 520-21). The experiments demonstrate a normal arterial network in extremities which survived frostbite without gangrene (due to successful anticoagulant therapy); opacification of the arterial tree was absent in the area in which a deep gangrene developed, suggesting thrombosis of the arteries in the affected area. Generally the intensity and duration of circulatory disturbances caused by cold, varied with the intensity and duration of exposure, with the extent of the area exposed, with the character of the tissue frozen and possibly with the species of animal. The experiments suggest that there is no full arterial circulation to a frozen part during the period following thawing. Bibliography (5 items).

**Copy seen:** NNN.

**SHUMACKER, HARRIS B., Jr., see also Finneran, J. C., & H. B. Shumacker, Jr.** Studies experimental frostbite 5, further evaluation early treatment. 1950. No. 21808.

**SHUMACKER, HARRIS B., Jr., see also Lempke, R. E., & H. B. Shumacker, Jr.** Studies in experimental frostbite III, early treatment. 1949. No. 23764.

**SHUMACKER, HARRIS B., Jr.**, see also Lempke, R. E., & H. B. Shumacker, Jr. Studies in experimental frostbite IV, denervated extremity. 1949. No. 23765.

**26180. SHUMAKOVICH, E. E., and F. K. BORISOVICH.** Ukazatel' literatury po obshchey i veterinarnoy gel'mintologii s 1781 do 1949 g. (Akademiya nauk SSSR. Gel'mintologicheskaya laboratoriya. Trudy, 1949. t. 3, p. 235-72; 1950. t. 4, p. 167-260) *Title tr.*: A guide to the literature on general and veterinary helminthology from 1781 to 1949.

Contains an alphabetical list of 3159 works in Russian (incl. 158 translations) and a subject index (t. 5, p. 247-60); includes some papers concerning arctic region; deals with Russian materials only.

*Copy seen:* MH-Z.

**SHUMILIN, N. F.**, see Ognev, V. V., & N. G. Shumilin. Razvedenie ovet's. 1951. No. 24801.

**26181. SHURIK, R. I.** Mekhovye tovary; posobie dlya prodavtsov. Moskva, Gostorgizdat, 1947. 70 p., illus. *Title tr.*: Fur goods; a manual for salesmen.

A practical handbook for the trade, containing data on the raw materials in furs; processing and dyeing; semi-finished fur products; finished fur goods; basic fur resources of the country (includes arctic animals); organization and technique of the fur trade. Bibliography (9 items).

*Copy seen:* DLC.

**SHVEDOV, N. A.**, see Teben'kov, V. P., & N. A. Shvedov. On stratigraphy coal-bearing deposits. 1941. No. 26643.

**26182. SHVESTOV, P.** Za 67oi paralel'yu. (Vokrug sveta, April 1952, p. 28-32, illus.) *Title tr.*: Beyond the 67th parallel.

Contains an account (with photographs (some in color)) of the author's 200-mile march from Monchegorsk, 68° N. 33° E. in central Kola Peninsula over the tundra to the White Sea. Includes descriptions of Monchegorsk and its cultural institutions, the numerous lakes. (Umbozero, Symbozero and others) and settlements observed on the trip, the Khibiny Mountains, etc.

*Copy seen:* DLC.

**26183. SHVETS, M. E.** Priblizhennaya teoriya narastaniya l'da (Meteorologiya i gidrologiya, 1949. no. 5, p. 78-87, diagrs.) *Title tr.*: Approximation theory of growth of ice.

Contains an exposition of a method of approximate calculation of growth of ice, based on a consideration of the process of freezing, as a quasi-stationary process. The thermic uniformity is assumed to exist in a vertical direction, which definitely applies to fresh-water ice, and gives sufficiently accurate results with sea ice. Bibliography (9 items).

*Copy seen:* DLC.

**26184. SHVETSOV, I. F.** K voprosu o svyazi temperatury i moshchnosti vechnoy merzloty s geologicheskimi i gidrogeologicheskimi faktorami. (Akademiya nauk SSSR. Izvestiya. Seriya geologicheskaya, 1941. no. 1, p. 114-24, tables) *Title tr.*: On the relation of the temperature and thickness of permafrost to geologic and hydrogeologic factors.

"Data on permafrost temperatures and climate at 11 localities in the U.S.S.R. and Spitsbergen indicated that the temperature of the permafrost was not completely dependent on climate. Geological structures and ground water conditions are factors also in determining soil temperatures. Three basic permafrost regions are established: semi-arid regions, areas with extensive ground water, and regions with mineralized ground water. The temperature of the semi-arid regions corresponds well with the average annual air temperature. Regions with extensive ground water are characterized by temperatures higher than the average annual air temperature. The temperature of the permafrost in regions with highly mineralized ground water tends to be lower than the average annual air temperature."—SIPRE. Bibliography (4 items). Summary in English.

*Copy seen:* DLC.

**SHVETSOV, P. F.**, see Sedov, V. P., & P. F. Shvetsov. O svyazi naledel's podzemel'nyimi vodami. 1940. No. 26011.

**26185. SIBIRSKAYA ZHIVAYA STARINA.** Kraevedenie v Yakutii; iz pis'ma Vostochno-Sibirskomu otdelu geograficheskogo obshchestva. (Sibirskaya zhivaya starina, 1925. vyp. 3-4, p. 203-204) *Title tr.*: Learning about the Yakut country; from a letter of the East-Siberian branch of Geographical Society.

Contains an account of what has been done since 1922 in the investigation of the territory of the Yakuts.

*Copy seen:* DSL.

**26186. SIBIRSKIY KRAY. PLANOVAIA KOMMISSIIA.** Materialy k pñatilet-nemu planu razvitiia narodnogo kho-ziaistva i kul'turnogo stroitel'stva Sibir-skogo kraia. Novosibirsk, Sibkralizdat, 1930. 9 pt. in 1 (34, 216, 123, 54, 67, 53, 98, 45, 59 & [15] p., fold. maps, tables) **Title tr.:** Materials for the five-year plan of development of the national economy and cultural upbuilding of Siberia.

A comprehensive treatise dealing in detail with the manifold aspects of the plan, and preceded by a geographic outline of area. Includes arctic production and industry in the sections on forests and timber; hunting, fishing; also problems common with other areas in sections on trade, communications, finances, socio-cultural development.

**Copy seen:** DLC.

**26187. SIBIRSKIY KRAY. SOVET NARODNOGO KHOZIAISTVA.** Perspektivnye plany razvitiia sibirskoi promyshlennosti (pñatiletnie programmy) [pod obshehei red. N. G. Terekhova] s predisl. M. M. Lashevicha. Novo-Nikolaevsk, Izd. Sib. Tsup'a VSNKH, 1925. 187 p. **Title tr.:** Prospective plans for developing Siberian industry (Five Year programs) [under the general editorship of N. G. Terekhov] with foreword by M. M. Lashevich.

Five-year advance plan for the development of heavy and light industries and those based on agricultural products, as: butter, tobacco, timber, leather, etc. Includes industries based on products of northern parts of Siberia: fur, leather, soap and timber, etc.

**Copy seen:** DLC.

**26188. SIDOROV, ALEKSEI SEME-NOVICH. 1892-** Eigentumsmarken (pas) der Syrjänen. (Suomalais-ugri-lainen seura. Aikakauskirja, 1932. v. 45, no. 5, p. 1-34, 3 plates) **Title tr.:** Marks of ownership (pas) among the Zyryans.

Contains investigation based on printed sources and material collected by the author during his trips in 1919 and from the Zyryan soldiers in Leningrad in 1927-28, also on results of a survey made by a native teacher and his pupils. The ownership marks are not only cut in the ears of animals (or bound on the necks), but also imprinted on tools and implements; they are used as a boundary mark, and even accepted by the author-

ities as valid signature on legal papers. Some signs are purely geometrical, others represent stylized animals (squirrel, hare, etc.), or objects. Originally they were the sign of a clan (probably connected with totemistic ideas), later a family mark only. When a family splits, the sons add a small new mark to their father's, excepting, usually, the youngest who inherits the father's. Therefore, related families are recognizable by their signs. The Permian property marks differ considerably from the Zyryan. Illiterate Zyryan merchants keep their "account books" engraved on the sticks, the debtors being indicated by their family signs. (A calendar on a wooden sticks also is in use on the upper Vychegda). All the old persons know the property signs which are still (1932) in common use in the Districts of Pomozdin (upper Vychegda) and Udora.

**Copy seen:** DLC; InU.

**26189. SIDOROV, V. I., and others.** Bystrokhodnyi samoreguliurñshchñsa vetrodvigatel' D-18-GUSMP. Moskva, Gos. nauchno-tekhnicheskoe izd-vo mashinostroitel'noi literatury, 1950. 181 p. illus., diagrs., tables. **Other authors:** V. S. Shamanin, A. S. Dobrosredov, A. V. Karmishin. **Title tr.:** The high speed, self-regulating wind motor D-18-GUSMP.

Contains a Stalin prize monograph dealing with a specific type of windmill (see also *Arctic Bibliography*, No. 16078 for the senior author's book dealing with various types in the Arctic). Includes sections on: the machine proper and its components, preparations for installing the motor, assembling and installing, starting, servicing during operation, characteristics and use of the motor. *Appendices* give additional working drawings, plans, tables, etc. This type of machine is very important for generating power in isolated arctic regions, and is used there extensively.

**Copy seen:** DLC.

**SIEBENS, A. A., see** Wagley, P. F., & others. Notes on studies paroxysmal hemoglobinuria. 1947. No. 27206.

**26190. SIEBERG, AUGUST HEIN- RICH. 1875-** Erdbebengeographie. (In: Handbuch der Geophysik, hrsg. von B. Gutenberg. Berlin, Borntraeger, 1932. Bd. 4, Lief. 3, p. 687-1005, illus., maps) **Title tr.:** Geography of earthquakes.

Includes, in the survey of the entire world, the north Asiatic mass (p. 786), Kamchatka, (p. 860-63), Canadian mass (p. 929), European Arctic Ocean (p. 993-99) with Spitsbergen, Greenland, Jan Mayen. **Copy seen:** DGS.

**26191. SIEGMUND, HERBERT.** Pathological anatomy and histology of local cold injury. (*In:* German aviation medicine. World War II, 1950. v. 2, p. 858-75, 30 illus.)

*Contains* an account on the gross and histological changes caused by frostbite, with special emphasis on the changes in blood vessels and blood supply, which are the key to the understanding of all tissue changes. Includes sections on the stages of local cold injury; changes of arteries and veins; in nerves, muscle, bone, cutaneous and subcutaneous changes; complications, and causes of death in local cold injury. Bibliography (over 65 items). **Copy seen:** D.L.C.

**SIĖROSHEVSKIĬ, VATSLAV, <sup>see</sup>**  
**SIEROSZEWSKI, WACŁAW, 1858-1945.**

**26192. SIEROSZEWSKI, WACŁAW, 1858-1945.** Ākuty; opyt ětnograficheskago izslědovaniĀ. t. 1. S.-Peterburg, Imper. Russkago Geograficheskogo Obshchestva, 1896. xii, 720 p., 168 text illus., port., fold. map. **Title tr.:** The Yakuts; results of an ethnographical investigation.

*Contains* monographic description of country and people: physical geography, climate, vegetation, wild and domestic animals; origin, wanderings, and history of the Yakut people; their territory and numbers, etc., relations with Tungus and Russians; racial characteristics; kinds of production; food and beverages; clothing; dwellings; handicrafts and art, utensils and implements; classes according to age and wealth; how the people work; laws and justice; family, children, love and marriage; folklore; beliefs (on death and burial, shamanism, spirits, etc.). The work, though including extensive references to the literature, was based mainly on the observation and experience of the author, a landowner, with keen interest in ethnographic matters who dwelt in Verkhoyansk 1880-83, then traveled to Sredne-Kolymsk, Andylakh (eight-month sojourn), Yakutsk, the village of Bafagantaiskiĭ on the Aldan River in 1885, and the village of Namskiĭ, 1887-92;

he learned the Yakut language and thus was able to get material first-hand.

Further volume(s) are not known to have been published. Vol. 1 was also published in Polish 12 lat w Kraju Jakutów 1900 (*Arctic Bibliography*, No. 16082) and 1931 (as t. 11-12 of his *Dziela zbiorowe*, copy in DLC).

An English abstract of this work was made by W. J. Sumner (see *Arctic Bibliography*, No. 16084). This was condensed and republished as *Social life in an arctic environment*, in: Thomas, William I., ed. *Source book for social origins*, Univ. of Chicago Press, 1909, p. 74-92. **Copy seen:** CtY; DLC.

**26193. SIGAFOOS, ROBERT SUMNER, 1920-** . Frost action as a primary physical factor in tundra plant communities. (*Ecology*, Oct. 1952. v. 33, p. 480-87, incl. illus., diags.)

"Frost action, a process of sub-aerial erosion in cold climates, affects all land surfaces in tundra regions. Ice formation breaks rock into fine particles, heaves soil, thrusts unconsolidated materials, promotes solifluction of soil masses and creates new exposed surfaces. Plant communities exemplifying the effects of frost action upon vegetation can be classified according to the drainage conditions of the substratum in which they grow. Heath and dryas mats occur in areas of minor frost heaving of soil and intensive frost riving of rock in well-drained soil. Willow-birch-heath occur in areas where frost action is slight, though more intense than where heath and dryas mats prevail. Cotton grass tussock-birch-heath occur on poorly drained soils where frost action is intense and soil movement frequent. Sedge sod and willow shrub occur in boggy areas with slow downslope movements."—SIPRE. Bibliography (19 items).

**Copy seen:** DLC.

**26194. SIGAFOOS, ROBERT SUMNER, 1920-** . Soil instability in tundra vegetation. (*Ohio journal of science*, Nov. 1951. v. 51, p. 281-298, illus., map)

Results of studies during the summer of 1948-49 on Seward Peninsula, Alaska, for the permafrost program of the U. S. Geological Survey in cooperation with the Engineer Intelligence Division, U. S. Army. Description of the primary and secondary plant distribution in relation to congeliturbation (heaving and thrusting of freeze-thaw surfaces) and thaw-

lake cycles, with discussion of modifications in the botanical landscape, including topographic features in the permafrost zones. Bibliography (40 items).

*Copy seen:* DGS.

**26195. SIGAFOOS, ROBERT SUMNER, 1920-**, and **D. M. HOPKINS.** Soil instability on slopes in regions of perennally-frozen ground. (National Research Council. Highway Research Board. Frost action in soils, a symposium. *Its*: Special report, 1952. no. 2 (N. R. C. pub. 213), p. 176-92, illus.)

"Processes of intensive frost action were studied on Seward Peninsula during the summers 1947-1950. Slopes subject to creep are common in permafrost areas because of poor drainage, wet soils, disturbances caused by alternate freezing and thawing, and the presence of glide planes in the regions. Vegetation cover modifies but does not prevent soil movement on slopes. Soil movement on slopes produces characteristic micro-relief features including soil terraces, soil lobes, peat-mound stripes, peat rings, tussock-birch-heath stripes, rock stripes, and swales. The degree of instability of the soil, the drainage conditions, and the danger of subsidence upon thaw can be estimated by a recognition of the significance of these features. The study of micro-relief is an aid in selecting the best of several routes for road construction."—SIPRE. Bibliography (13 items).

*Copy seen:* DGS.

**26196. SIGAFOOS, ROBERT SUMNER, 1920-**. Some botanical problems in the interpretation of aerial photographs of tundra areas. (Photogrammetric engineering, June 1950. v. 16, p. 429-31, incl. table)

"Factors required for proper interpretation of vegetation and surficial geology through use of aerial photographs are given. Photographic studies of permafrost in tundra regions is facilitated only so far as the vegetation and micro-relief forms indicate the nature of the frozen substratum."—SIPRE.

*Copy seen:* DLC.

**SIGAFOOS, ROBERT SUMNER, 1920-**, see also Hopkins, D. M., & R. S. Sigafos. Frost action & vegetation patterns. 1951. No. 22706.

**26197. SIGGESON, E.** Trekk-notiser fra Nord- og Sør-Varanger 1929. (Norsk ornithologisk tidsskrift, 1930. ser. 3, no.

11-12, p. 230-31, illus.) *Title tr.*: Migration notes from North and South Varanger 1929.

Record of date of arrival for 53 species of birds.

*Copy seen:* DL.

**26198. SIGURDSSON, BJÖRN, and Ó. BJARNASON.** Immunological studies on an epidemic of influenza in Iceland. (American journal of public health, Feb. 1946. v. 36, p. 130-34, fig., 2 tables)

Contains a study of the epidemic of Oct.-Nov. 1943. Attempts to isolate virus by inoculating chick embryos were unsuccessful; a raise in antibody titer against A strain, and a swine virus strain, was found in most cases studied, with Hirst's agglutination technique; no rise in antibody titer against a B strain (Lee) was found. Bibliography (13 items).

*Copy seen:* DLC.

**26199. SIGURDSSON, SIGURDUR.** Tuberculosis case-finding survey of the total population of Reykjavik, Iceland in 1945. (U. S. Public Health Service. Public health reports 1947. v. 62, p. 1593-606, tables, graphs)

In 1945 a tuberculosis case-finding survey (tuberculin tests and photoroentgenograms) was conducted at Reykjavik covering the whole population of 46,000. 99.32 per cent of those expected to attend were examined. Of those examined 1.6 per 1000 were found to suffer from active tuberculosis, calling for immediate treatment and 15.2 per 1000 exhibited old tuberculous changes. All these cases were previously unknown to the Health Center. The value of surveys, like the one reported, is stressed.—From Summary.

*Copy seen:* DLC.

**26200. SIGURJONSSON, JULIUS.** Epidemiologic characteristics of poliomyelitis in Iceland. (American journal of hygiene, Jan. 1950. v. 51, p. 109-125, 3 fig., 7 tables)

Contains sections on the geography, climate, population and living conditions of the area; public health and medical care; prevalence of contagious diseases; reporting of polio; its prevalence (1902-1947); seasonal and age distribution; observations on mode of spread. Widespread epidemics, severe as compared with Northern Europe and North America, and occurring at about 10 years interval, were observed. Cases are reported in every month of the year, with a maximum in the fall. A shift to older

age groups has been observed in recent years. Bibliography (17 items).

**Copy seen:** DLC.

**26201. SIIVONEN, LAURI.** Quantitative bird survey and the short-term fluctuations in numbers. (*Ornis fennica*, 1948. v. 25, no. 3, p. 37-56, tables)

Contains an analysis of fluctuations in numbers of common birds, made at a series of areas, including that of Heinäsaaret Island, near Petsamo. General trends and regularities in the appearance of various species over a number of years are noted and the merits and limitations of the methods applied, discussed. Bibliography (11 items).

**Copy seen:** CaMAI.

**26202. SIIVONEN, LAURI.** Über die Kausalzusammenhänge der Wanderungen beim Seidenschwanz, *Bombycilla g. garrulus* (L.) Helsinki, 1941. 40 p., diags. (Suomalainen eläin-ja kasvitieteellinen seura Vanamo. Eläintieteellisiä julkaisuja. Annales zoologici, 8:6) **Title tr.:** On the casual links of the migrations of the "silk-tail," *Bombycilla g. garrulus* (L.).

An analysis of the causes leading to normal, intermediary and mass migrations of this bird, which ranges far north of the Arctic Circle in Scandinavia. Remarks on its migrations in Hungary and Finland; variations in the yield of ash-tree berries and their connection with the migrations; periodic population increase and mass-migrations. Bibliography (44 items).

**Copy seen:** DLC.

**26203. SIIVONEN, LAURI.** Zur Ökologie und Verbreitung der Singdrossel (*Turdus ericetorum philomelus*, Brehm). Helsinki, 1939. 289 p., tables, diags., illus., figs. (Suomalainen eläin-ja kasvitieteellinen seura Vanamo. Eläintieteellisiä julkaisuja. Annales zoologici, v. 7, no. 1) **Title tr.:** The ecology and distribution of the song thrush (*Turdus ericetorum philomelus*, Brehm).

Contains a treatise covering the whole area where this species occurs (including northern Scandinavia) and dealing in the main with two ecological problems: (1) the relation between climate and vegetation on one hand, and the distribution and frequency of this thrush on the other; and (2) this species' requirements of its environment. For comparison several other species of thrushes are discussed. The study includes sections on: geographical distribution (breeding

and wintering areas, migrations, etc.); distribution and density in relation to the vegetation; the biology of breeding (areas and preferred localities, nest-position, -construction, -protection, eggs young, etc.); the song and factors influencing it; biology of nutrition (diet, regional and seasonal variations, etc.); general behavior of the thrush. Bibliography (over 350 items).

**Copy seen:** DLC.

**SIIVONEN, LAURI, see also Hustich, I., ed.** Recent climatic fluctuations Finland; symposium. 1952. No. 22755.

**26204. SILIN-BEKCHURIN, A. I.** Razvedka podzemnykh vod v oblasti veehnoi merzloty. (*In his: Spetsial'naii gidrogeologiya*. Moskva, Gosgeoizdat, 1951, p. 272-77, incl. illus., diags.) **Title tr.:** Survey of underground waters in permafrost region.

"The underground waters of permafrost are divided into suprapermafrost, intrapermafrost, and subpermafrost waters. The water above permafrost furnishes a constant supply of water during spring, summer and fall. The sources of suprapermafrost waters are the meltwaters from snow, rain, and other types of surface waters. Maximum yield is obtained during the late summer when the active layer is thawed to the maximum depth. Intrapermafrost water is water within the permafrost occurring in thick alluvial deposits near rivers or old river channels. The subpermafrost waters are divided into shallow and deep-lying waters. Shallow subpermafrost water includes alluvial waters appearing in broad valleys of large rivers where the deposits are not completely frozen. It is suggested that large nonfreezing springs, icings, and hydrolaccoliths usually fed by waters from considerable depths, be investigated during surveys for water supply."—SIPRE.

**Copy seen:** DLC.

**26205. SILINICH, I. K** kraniologii solot. (*Antropologicheskii zhurnal*, 1901. no. 2, p. 74-79) **Title tr.:** On the craniology of Soyots.

Contains anthropometric data of 11 Soyot skulls, preserved in the Anthropological Museum at Moscow University and comparison with skull measurements of Samoyeds, Permians, Kirghizes and other peoples.

**Copy seen:** DSL.

**26206. SILLARS, ROBERTSON.** The North Pacific and Alaska. New York, 1942. 19 p., maps. (Columbia University.

Teachers College. Institute of Adult Education. Theaters of war. ser 1. no. 3)

Brief popular outline of the area, its climate, resources, population, etc.

**Copy seen:** DLC.

**26207. SILVÄN, LAURI.** Talvitiät puutavaran moottoroidun kuljetuksen palveluksessa. Tiettomät korvet auto-kuljetusten piiriin. (Tielehti, 1951. v. 21, no. 4, p. 20-22, illus.) **Title tr.:** Winter roads and the mechanized transport of lumber; roadless forests within the reach of car transports.

On the basis of experience since 1928 building logging roads, author discusses construction and location of winter roads over snow and ice, especially in northern Finland where winter lasts 6-7 months.

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**26208. SILVERMAN, JACOB J.** Frost-bite: a subjective case history in a German soldier. (Military surgeon, Sept. 1948. v. 103, p. 216-19, 3 fig.)

Contains a story (as told to the author) by a German soldier who sustained mutilating injuries of the hands. His complaints three years after the injury, much resembled those of Raynaud's syndrome.

**Copy seen:** DLC.

**26209. SIMOJOKI, HEIKKI.** Über die Eisverhältnisse der Binnenseen Finnlands. Helsinki, 1940. 194 p., 2 plates (4 maps), tables, diags. (Suomalainen tiedeakatemia. Annales Academiae scientiarum fennicae, A52:6) **Title tr.:** On the ice conditions of the lakes of Finland.

A study based to a great extent on a physical approach and methods. Author reviews earlier work, outlines methods and essential observational materials; studies homogeneity, fluctuations and reduction of data; presents data on time of freeze-up and break-up of ice; factors conditioning freeze-up (depth, geographic, hydrological and meteorological conditions); the ice cover; factors conditioning the break-up (air temperature, other meteorological factors and state of weather during break-up); extremes of freeze-up, break-up and duration of ice-cover. Includes cartographic representation and tabulation of the data (p. 162-88). Maps at end show mean time for 1892-1931 of freeze-up, break-up and duration of ice-cover, also location of 328 lakes (including 19 north of the Arctic Circle) on which the study was based. Bibliography (112 items).

**Copy seen:** DLC.

**26210. SIMON, EUGÈNE.** Arachnides recueillis au Groenland en 1888 par M. Ch. Rabot. (Société zoologique de France. Bulletin, 1889. t. 14, p. 289-91) **Title tr.:** Arachnids collected in Greenland in 1888 by Mr. Charles Rabot.

Contains a diagnosis of *Hypsosinya groenlandica* n. sp. and notes on three other arachnids collected in Kakorotok Fjord region near Jakobshavn.

**Copy seen:** MH-Z.

**26211. SIMON, EUGÈNE.** Liste des arachnides recueillis en 1881, 1884 et 1885, par MM. J. de Guerne et C. Rabot, en Laponie (Norvège, Finland et Russie). (Société zoologique de France, 1887. t. 12, p. 456-65) **Title tr.:** List of arachnids collected in 1881, 1884 and 1885, by Messrs. J. de Guerne and C. Rabot in Lapland (Norway, Finland and Russia).

Contains a list of 33 arachnids, including diagnoses of *Pardosa guernei* (Vadsø, northern Norway) and *P. raboti* (Imandra, Kola Peninsula); and a bibliography of 21 important works on arctic arachnids with some notes and lists of new species described.

**Copy seen:** MH-Z.

**SIMON, W. G.,** see Gripp, K., & W. G. Simon. Nochmals z. Problem d. Brodelbodens. 1934. No. 22241.

**26212. SIMONEN, AHTI.** Orbicular rocks in Kemijärvi and Esbo. (Finland. Geologiska kommission. Bulletin, 1941. v. 22, no. 126, p. 107-140, illus., plate, tables)

"A detailed description of the orbicular rock in Kemijärvi, with four analyses, is given. The origin of this rock by metamorphic differentiation in connection with granitization is discussed. New observations on the orbicular rock in Esbo, with one analysis are presented."—Abstract, p. 107. Bibliography (20 items).

**Copy seen:** DLC.

**26213. SIMPSON, C. J. W.** British North Greenland Expedition; report by the expedition leader on Reconnaissance of Queen Louise Land 1951. [London, 1952?]. [iii], 44 p. (mimeographed), 40 photographs, 2 fold. maps in pocket.

Contains report on a five-man expedition in July 17-Aug. 25, 1951 "to reconnoitre approaches to the northern part of Queen Louise Land and to choose a suitable base for a large expedition the following year. It was hoped to discover whether there were any lakes there fit for use by flying boats."

Following account of a flight with

P.-É. Victor to "free"-drop supplies at the inland-ice station of Expéditions polaires françaises, and another flight to parachute his own party's supplies, author describes the journey with dogs, then with back-packs, from Mörkefjord (76°55' N. 20°30' E.) across Mörkefjordsplateau and Storstrømmen (glacier) to Dronning Louises Land; reconnaissance in the region roughly 77°-77°15' N. 23°-25°30' W., and survey of a lake tentatively called Adastra Lake (77° N. 23°30' W.)

*Appendices* describe (a) geography and glaciers of the region, (b) geology, (c) flora and fauna, (d) weather (briefly noted because the party's meteorological instruments were damaged in parachute drop), (e) survey by F. R. Brooke of Adastra Lake and sketch map of Dronning Louises Land (maps in pocket). The notable photographs show geographic (particularly glaciers) wild life (musk oxen, hare), etc. mentioned in text.

*Copy seen:* CaMAI.

SINEL'NIKOV, N. A., *see* Bunak V. V. *Defätel'nost'* D. N. Anuchina. 1924. No. 21023.

26214. SINGER, ROLF, 1906-. K izucheniiu roda *Amanita* v SSSR. (Akademii nauk SSSR. Botanicheskii institut. Trudy, ser. 2, Sporovye rasteniia, 1950. vyp. 6, p. 388-401) *Title tr.:* A contribution to the study of the genus *Amanita* in the U.S.S.R.

*Contains* data on systematic position of the fungal genus *Amanita*, a key to the species and descriptions of 16 species inhabiting Russia, including some species native to northern regions of European Russia and Siberia. *Copy seen:* MH-A.

26215. SINGER, ROLF, 1906-. *Naucoria* Fries i blizkie rody v SSSR. (Akademii nauk SSSR. Botanicheskii institut. Trudy, ser. 2, Sporovye rasteniia, 1950, vyp. 6, p. 402-498, illus.) *Title tr.:* *Naucoria* Fries and related genera in the U.S.S.R.

*Contains* a critical revision of the genus *Naucoria* and 11 related genera of fungi, occurring in Russia, with keys to the genera and species, Latin diagnoses of all genera and Russian descriptions of the species and lower forms, with synonymy, critical notes and data on habitat and distribution in U.S.S.R. and other countries; includes many species native to northern European Russia and Siberia.

*Copy seen:* MH-Z.

26216. SINGER, ROLF, 1906-. Novye osnovy dlia klassifikatsii *Panus* i rodstvennykh rodov. (Akademii nauk SSSR. Botanicheskii institut. Trudy, ser. 2, Sporovye rasteniia, 1950, vyp. 6, p. 375-87) *Title tr.:* New data on classification of *Panus* and related genera.

*Contains* critical study of the systematic position of the genus *Panus* and its relation to such other closely related genera, as *Panellus*, *Tectella*, *Phyllotopsis*, and *Schizophyllum*; descriptions of nine species of fungi of those genera, including three species from Kamchatka Peninsula.

*Copy seen:* MH-A.

26217. SINITSYN, M. Na polarnoi stantsii. (Geografiia v shkole, May-June 1952. no. 3, p. 27-33, illus.) *Title tr.:* At a polar station.

*Contains* remarks on the pre-Soviet and the present state of arctic hydro-meteorology; mode of life and personnel at the observation station: clothing, scurvy, daily work routine, etc.; the seasons, animal life and hunting; auroras, etc.

*Copy seen:* DLC.

SINITSYN, S. D., *see* Debets, G. F. Paleoantropologii SSSR. 1948. No. 21380.

26218. SIPLE, PAUL ALLMAN, 1908-. Climatic aspects of frost heave and related ground frost phenomena. (National Research Council. Highway Research Board. Frost action in soils, a symposium. Its: Special report, 1952. no. 2 (N. R. C. pub. 213), p. 10-16, illus.)

*Contains* brief explanations of radiation, conduction and convection, and moisture as factors in producing frost heave in frozen ground. Suggests that control measures must be concentrated on moisture, which is recognized as the most important factor; and reports that "an index using the percentage of the total annual hourly frequency of temperatures below 30 F., the temperature difference between the freezing point and the temperature of the minimum one percent frequency level, and an adjustment for surface insulation cover appears to provide a means of predicting probable average minimum depths of winter frost penetration."

*Copy seen:* DGS.

26219. SIPLE, PAUL ALLMAN 1908-. Clothing and climate. (In: Newburgh, L. H., ed. Physiology of heat

regulation and the science of clothing, 1949. p. 389-442, tables)

*Contains* an analysis of seven climatic zones, the response of the human organism to each of them and the clothing required in each area; seven "clothing zones" are established on this basis; the climatic zonation is largely based on that of the U. S. Army Quartermaster Corps' climatic maps. Included are sections on subarctic and arctic conditions (p. 429-42), each dealing in particular with temperatures, sunshine, precipitation, etc.; physiological conditions of man on these areas; clothing theories; clothes used in each area including: natives', conventional white man's, and combinations of the two; army clothing and equipment, various new types of garments, including electrically heated dress (for fliers); the Brynje, or double vapor-barrier dress, etc.

*Copy seen:* DLC.

**26220. SIPLE, PAUL ALLMAN 1908-** . Ice-blocked drainage as a principal factor in frost heave, slump, and solifluction. (National Research Council. Highway Research Board. Frost action in soils, a symposium. *Its:* Special report, 1952. no. 2 (N. R. C. pub. 213), p. 172-75)

*Contains* discussion of the mechanisms which operate in water-saturated soil, above the impermeable frozen layers in the soil and obstruct normal gravitational drainage. "Expansive action of diurnal freezing in the active soil zone deforms the soil and permits formation of pockets, lenses, and layers which refill with free water of ice. The thicker these free-water layers become, the greater becomes the frost heave force . . . Water accumulating at the impervious base of the active zone on sloping land tends to move the soil laterally. Soil slump occurs when the force of gravity on the sloping water-saturated soil exceeds the forces holding the soil in place. This action may be controlled by an impervious ground surface cover preventing melted snow from reaching the active layer; by drainage at the critical depth; by vertical sumps draining through frozen soil to an absorptive soil layer."—SIPRE.

*Copy seen:* DGS.

**SIPLE, PAUL ALLMAN, 1908-** , *see also* Arctic circular. Wind-chill. 1952. No. 20291.

**SIPLE, PAUL ALLMAN, 1908-** , *see also* National Research Council. Sub-

committee on Clothing. Clothing test methods. 1945. No. 24577.

**SIPLE, PAUL ALLMAN, 1908-** , *see also* Van Dilla, M., & others. Laboratory & field studies: special problem of hands. 1949. No. 27033.

**26221. SIRELIUS, UUNO TAAVI, 1872-1929.** Die Handarbeiten der Ostjaken und Wogulen, I. (Suomalais-ugrilainen seura. Aikakauskirja, 1904. v. 22, no. 1, p. 1-75, 106 illus. incl. plate) *Title tr.:* The handicrafts of the Ostyaks and Voguls, I.

*Contains* chapters on: the preparation of fur skins, spinning and needlework, weaving, girdle- and mat-making, dyeing, girdle-making from roots, bark and nettles, the preparation of birch bark for various purposes, glue-making, blacksmith and foundry work, tools for general use, native names for materials, tools and implements. Detailed description is given of various techniques, with illustrations of the tools and of persons at work. The material is based on the author's observations and refers largely to the Vasyugan (left tributary of the Ob' ca. 58° N. 80° E.) Ostyaks, though other local groups of the Ob'-Irtysh basin are well represented.

*Copy seen:* DLC; InU.

**26222. SIRELIUS, UUNO TAAVI, 1872-1929.** [Notes]. (Suomalais-ugrilainen seura. Aikakauskirja, 1901. v. 19, no. 3, p. 32-33)

*Contains* notes in French on Sirelius' travels Sept. 1899-Jan. 1900, among the Ostyaks living in the districts of Obdorsk and Surgut, on the rivers Jugan, Agan, Toromjugan, Pym, Salyan, Irtysh and Konda, where he met also some Voguls and Samoyeds. He chiefly studies the hunting and fishing techniques of these peoples, collected museum objects, made photographs, also noted mythological beliefs and folklore. His trip was sponsored by Finno-Ugric Society, and these notes appear in its report for 1900.

*Copy seen:* DLC; InU.

**26223. SIRELIUS, UUNO TAAVI, 1872-1929.** Primitive Konstruktionsteile an prähistorischen Schiffen. (Finnisch-ugrische Forschungen, 1913. Bd. 13, p. 1-6, 12 illus. on three plates) *Title tr.:* The primitive constructional parts of the prehistoric ships.

*Contains* comments on the stone-age boats excavated in Scandinavia and

compared with the recent Lapp, Ostyak and other boats of northern Eurasia.

*Copy seen:* DLC; InU.

**26224. SIRELIUS, UUNO TAAVI, 1872-1929.** Die syrjänische Wohnung in ihren verschiedenen Entwicklungsstadien; eine vergleichende Untersuchung. (Suomalais-ugrilainen seura. Toimituksia, 1928. no. 58, p. 331-65, 34 illus.) *Title tr.:* The Zyryan dwelling in its different stages of evolution; a comparative study.

An important ethnological treatise on the dwellings of Zyryans, living on the banks of the rivers Loz'va (59°32' N. 60°25' E.), Vychegda (61°15' N. 46°35' E.), and Lokehim (61°30' N. 51°37' E.), visited by author, 1907. These people are settled agriculturalists and cattle breeders who also like to hunt in fall and winter. Their dwellings have separate rooms for humans and animals, although they are under the same roof, the common roof itself being a later development when the separate buildings were put together. The development of a stable (stall) is discussed, also the difference in type of house of the people who have landed property and those who have not. The houses are built of logs, and the village is a typical "sippendorf," not the Russian "street-village." *Copy seen:* DLC; InU.

**26225. SIRELIUS, UUNO TAAVI, 1872-1929.** Ueber das Jagdrecht bei einigen finnisch-ugrischen Völkern. Helsinki, 1914. 34 p. (Suomalais-ugrilainen seura. Toimituksia, v. 35, no. 14) *Title tr.:* On hunting rights among some of the Finno-Ugric peoples.

*Contains* a study of the hunt in Samoyed, Ostyak, Vogul, Zyryan, Lapp and Tungus groups. Hunting grounds or woods were considered common property of the whole clan, division of the hunting or snaring grounds among the individual families being a later development (e. g. among the Lapps). In regard to division of the take, a kind of communism was practiced in the primitive society, for essential game only however, e. g. wild reindeer; the smaller game (e. g. foxes) were the sole property of the successful hunter. Among Lapps and Samoyeds, hunting parties were organized with the whole clan participating, one man from each family taking part, and the take was divided in as many parts as there were tents (families) in the settlement, the head man however getting a somewhat larger share. Whoever was too lazy to take part in the

hunt, got nothing. Late-comers, or members of another hunting party, arriving after the kill (if they came not too late) got a share.

*Copy seen:* DLC; InU.

**26226. SIRELIUS, UUNO TAAVI, 1872-1929.** Ueber die Art und Zeit der Zählung des Renntiers. (Suomalais-ugrilainen seura. Aikakauskirja, 1916-20 v. 33, no. 2, p. 1-35, 6 illus.) *Title tr.:* The method and time of the domestication of reindeer.

*Contains* comparative ethnological and archeological study dealing chiefly with the Finns, Lapps, and Samoyeds, but including references to other northern Asiatic peoples; based on the author's personal observations, archeological objects and literature. The reindeer was tamed by hunters to serve as a decoy in hunting the wild reindeer, especially at the rutting season, and as a draft animal. The idea and possibility of domesticating wild reindeer probably derived from use of fenced enclosures (Lapp: *wuobman*) as a hunting technique. Prehistoric sledges found in Finnish swamps are of the same type as Samoyedic sledges of today. Those found in Finland were made of a species of pine (*Pinus cembra*) native only to northeastern European Russia. Author concludes that the reindeer was certainly used as a draft animal in the stone age, and that the Lapps probably learned reindeer husbandry from Samoyeds in northern Russia before coming to Fennoscandia. *Copy seen:* DLC; InU.

**26227. SIRELIUS, UUNO TAAVI, 1872-1929.** Über die primitiven Wohnungen der finnischen und Ob-ugrischen Völker. (Finnisch-ugrische Forschungen, 1906, Bd. 6, p. 74-104, 121-54, illus. 1-50c; 1907, Bd. 7, p. 56-128, illus. 51-85; 1908, Bd. 8, p. 8-59, illus. 85-147; 1909, Bd. 9, p. 17-113, illus. 148-217; 1911, Bd. 11, p. 23-122, illus. 218-55) *Title tr.:* The primitive dwellings of the Finnish and Ob-Ugrian peoples.

*Contains* ethnological study in five parts chiefly based on author's own investigations among the Ostyaks and Voguls, and on the literature. The first part deals with the form of the dwelling, its dependence largely on the form of production: agriculturalists have stable dwellings. The Lapps, Voguls and Ostyaks, non-agricultural peoples, have tents with a pointed roof. The materials (hides and birch-bark), form, and technique of building these tents are in-

vestigated. The second section (1907) contains among other things, descriptions of the pointed-roof tents found among the Zyryans and Karelians; the so-called "Lapp ditch" and its influence on the Karelians; also comparative references to Ostyak and Yakut dwellings. The third section (1908) deals with tents with a ridge roof (Firstdach) and rectangular (vierwändige) log-houses as found among the Ostyaks, Voguls, Zyryans, and other Finno-Ugric peoples. The native names for these structures and their parts are explained. The fourth section (1909) is a comparative study of these three types of dwellings as used by the Finns (especially Karelians), Estonians, Livonians, and Lapps, with many references also to the Zyryans and others treated extensively in earlier parts. Special attention is given to the origin of windows among the Ob-Ugrians and Zyryans. The fifth part (1911) is based on Finnish structures with extensive data (in text and illus.) on comparable forms used by the Lapps, Zyryans and others. Description is given of the interior of the log living-house, its fireplace, oven and chimney, the horizontal log ceiling, sleeping banks made of clay and wooden frames, the floor and cellar. The bath-house, formerly a living-house then used for various purposes (e. g. for domestic animals in winter), and its equipment are described, also the kiln, its outfitting and use. Summer and winter living-houses are discussed, the smoky hut (a living hut without smoke vent), its interior and equipment.

**Copy seen:** DLC.

**26228. SIRELIUS, UUNO TAAVI, 1872-1929.** Ueber einige Prototype des Schlittens. (Suomalais-ugrilainen seura. Aikakauskirja, 1913-18. v. 30, no. 32, p. 1-26, 32 illus.) **Title tr.:** On some prototypes of sledges.

**Contains** ethnological investigation of some primitive Finnish sledges (Schleife) man-drawn and used by hunters and fishers. They are compared with sledges of the Karelians, Lapps, Ostyaks, Zyryans, and Samoyeds; and notes added on snowshoes among the northern Finns, northern Ostyaks, Zyryans, and Samoyeds.

**Copy seen:** DLC; InU.

**26229. SIRÉN, GUSTAF.** Metsännoidollisia havaintoja Pohjois-Suomen pakusamalkairoilta. (Metsä-taloudellinen aikakauslehti (Finska forstföreningen), 1949. v. 64, no. 11, p. 382-84) **Title**

**tr.:** Afforestation methods on moorland in northern Finland.

Author discusses silvicultural problems on moors characterized by vegetation cover of thick moss (HMT). Such areas are not favorable to new tree growth and he suggests ways to overcome this by breaking the ground or burning it over. "The best results were obtained by clear-felling, followed either by clearance or burning," burning apparently giving the better results; renewal cutting methods did not give satisfactory results. Summary in English. **Copy seen:** DA.

**26230. SIRIN, N. A.** Geologo-petrograficheskoe issledovanie Pripol'arnogo Urala. Leningrad, 1945. 176 p., illus., fold. diagr., tables. (Akademiia nauk SSSR. Institut geologicheskikh nauk. Trudy, vyp. 72, no. 22) **Title tr.:** Geological and petrographic investigation of the polar Ural.

"A monographic study of the geology and petrography of the polar Ural region, U.S.S.R. The region is composed principally of Precambrian and lower Paleozoic metamorphic and igneous rocks and middle Paleozoic, sedimentary (upper Silurian to lower Carboniferous) volcanic formations. A series of rock descriptions (with chemical analysis) is included."—Geological Society of America. **Bibliography & index of geology**, 1952. Bibliography (about 130 items). **Copy seen:** DLC.

**26231. SISKOV, S. I.** Geograficheskoe raspredelenie éffektivnykh velichin albedo vodnoj poverkhnosti. (Vsesoiuznoe geograficheskoe obshchestvo. Izvestiia, 1952. t. 84, vyp. 2, p. 200-201, table) **Title tr.:** The geographical distribution of effective albedo quantities of the water surfaces.

**Contains** an analysis and critique of earlier methods and formulas for calculating albedo over water surfaces. An improved formula is offered together with a tabulation of albedo values for each month of the year for northern latitudes, from 0°-90° N. lat. Bibliography (2 items).

**Copy seen:** DLC.

**26232. SIZOV, V. N.** Stroitel'nye raboty v zimnikh usloviakh. Vtoroe izdanie, dopolnennoe i pererabotannoe. Moskva-Leningrad, Gosudarstvennoe izd-vo literatury po stroitel'stvu i arkhitekture, 1951. 512, 1, p. illus., tables, diagrs. **Title tr.:** Construction works under winter conditions. Second enlarged and re-edited edition.

"Necessary data concerning general civil construction under adverse winter conditions are presented. Information is provided on preliminary measures for efficient planning and performance of various construction tasks. Excavation techniques include a review of frozen ground properties and measures for preventing frozen ground or facilitating operations therein. Building stages, such as preparation and transportation of materials, mixing and pouring of cement, masonry, roofing and other carpentry jobs are discussed in detail. Heating equipment for ground thawing and concrete heating is described. A section of the study is devoted to sanitation problems connected with the construction of buildings, such as water supply systems, sewers, and central heating."—SIPRE.

**Copy seen:** DLC.

**26233. SJÖBERG, OSCAR.** Beitrag zur Kenntnis der Gattung *Epuraea* Er. (Col. Nitidulidae). Bestimmungstabelle der palaarktischen Arten. (Entomologisk tidskrift, 1939. Årg. 60, häft. 1-2, p. 108-126) **Title tr.:** A contribution to the knowledge of the genus *Epuraea* Er. (Col. Nitidulidae). A table for the determination of the palaearctic species.

**Contains** a table for the determination of 81 palaearctic species (including 15 new to science) of this genus of small beetles; the table undoubtedly includes some arctic species but the distribution is given only by the countries; seven species are listed as native to Alaska.

**Copy seen:** DA; MH-Z.

**26234. SJÖBERG, OSCAR.** Drei neue Käfer aus der borealen Region Schwedens. (Entomologisk tidskrift, 1950. Årg. 71, häft. 2, p. 159-160; häft. 3-4, p. 161-64, illus.) **Title tr.:** Three new beetles from the boreal region of Sweden.

**Contains** descriptions of three new northern species of beetles, including *Dermestes* (s. str.) *palmi* n. sp. found in Hälsingland, Jämtland and Umgrånsele, southern Lapland.

**Copy seen:** DLC; MH-Z.

**26235. SJÖBERG, OSCAR.** Die Ergebnisse einer Genitaluntersuchung der nördlichen Arten der Gattung *Atomaria* Steph. (Col. Cryptophagidae). (Entomologisk tidskrift, 1947. Årg. 68, häft. 1-2, p. 91-96; häft. 3-4, p. 97-119, plates 1-5) **Title tr.:** The results of an investigation of the genital organs

of northern species of the genus *Atomaria* Steph.

**Contains** a table for the determination of species of the coleopterous genus *Atomaria* and descriptive notes on 24 northern species with data on their reproductive organs, ecology and Scandinavian and total distribution. Includes four species native to Swedish Lapland and northern Norway.

**Copy seen:** DA; MH-Z.

**26236. SJÖBERG, OSCAR.** För Sveriges fauna nya eller sällsynta Coleoptera huvudsakligen från det norrlandska Skogsområdet. (Entomologisk tidskrift 1928. Årg. 49, häft. 3, p. 115-25) **Title tr.:** Coleoptera, rare or new to Swedish fauna, mostly from forest region of Norrland.

**Contains** critical notes on 50 beetles collected mostly in forest region of Norrland (Loos in western Hälsingland), including a few species native to Swedish Lapland.

**Copy seen:** 9DLC; MH-Z.

**26237. SJÖBERG, OSCAR.** Zur Kenntnis der Arten der Gattung *Proteinus* Latr. (Col., Staphylinidae). (Entomologisk tidskrift, 1930. Årg. 51, häft. 3-4, p. 175-90. Plates, 1-5) **Title tr.:** A contribution to the knowledge of the species of the genus *Proteinus* Latr. (Col., Staphylinidae).

**Contains** descriptions of nine species of rove beetles (Staphylinidae) of the genus *Proteinus*, including *P. apicatus* and *P. macropterus*, native to Torne Lappmark, and a key for the determination of *Proteinus* species.

**Copy seen:** DA; MH-Z.

**SJÖBERG, OSCAR, see also Jansson, C. A., & O. Sjöberg.** För Sverige nya Coleoptera. 1934. No. 22932.

**SJÖBERG, OSCAR, see also Jansson, C. A., & O. Sjöberg.** *Leptura inexpectata* n. sp. 1928. No. 22934.

**SJÖBERG, OSCAR, see also Jansson, C. A., & O. Sjöberg.** *Proteinus apicatus* nov. sp. 1929. No. 22935.

**26238. SJÖBLOM, PAUL.** Norden-skiöld, scientist, exile and discoverer. (Finlandia pictorial, Jan. 1951. v. 6, no. 1, p. 6-7, 14, illus., map)

Tribute to Nils Adolf Erik Nordenskiöld, 1832-1901, as a native of Finland exiled in 1858; his achievements in arctic exploration.

tion especially his navigation of the Northeast Passage in the *Vega*.

*Copy seen:* DLC.

**26239. SJÖRS, HUGO.** Regional studies in north Swedish mire vegetation. (Botaniska notiser, 1950. Häfte 2, p. 173-222)

*Contains* a survey of phytogeographic regions of northern Sweden, moss and bog vegetation, directions of variations within the fen vegetation, local geographic differentiation within mires, regional geographic differentiation of the northern Swedish mires, and bibliography (125 items). The region treated in this study includes Swedish Lapland and adjoining provinces.

*Copy seen:* DLC; MH-A.

**26240. SJÖSTED, BROR YNGVE.** Svensk insektfauna, III. Sländor. (Entomologisk tidskrift, 1902. Årg. 23, häft. I, p. 1-27, illus.) *Title tr.:* Swedish insect fauna III. Pseudoneuroptera.

*Contains* a taxonomic treatment of the order Pseudoneuroptera, with synopses of the suborders, families, genera and species, and descriptions of 47 Swedish species, with dimensions and data on distribution in Sweden; includes 19 species native to Swedish Lapland.

*Copy seen:* DLC; MH-Z.

**SKALBERG, JOHAN,** *see* Waxell, S. L. Vitus Berings eventyrlige opdagelser 1733-43. 1948. No. 27280.

**26241. SKALON, V. N.** Kratkii obzor rasprostraneniia i obraza zhizni dlinnokhlostogo suslika v Äkutii. (Moskovskoe obshchestvo ispytatelei prirody. Büileten', 1946. Otdel. biol. Novaya seriia. t. 51, vyp. 4-5, p. 84-90) *Title tr.:* Brief sketch of the distribution and living habit of the longtail gopher in Yakutia.

*Contains* a study of the geographic distribution and biology of the three varieties of a Yakutian species of spermophile, *Citellus eversmanni*: var. *jacutensis* on the left bank of the Lena River, v. *janensis* in the Yana River region, and v. *buxtoni* in the Kolyma River basin, spreading to 69° N.; biological data on these rodents are compared with data on those of other Siberian regions. Summary in French.

*Copy seen:* DLC; MH-Z.

**26242. SKALON, V. N.** Pesets i korsak. (Priroda, Sept. 1952. v. 41, no. 9, p. 106-

108, illus.) *Title tr.:* Arctic and tartar foxes.

*Contains* an ecological sketch of the fox (*Alopex lagopus* L.) native to arctic regions and the tartar fox (*Vulpes corsac* L.) occurring in Mongolia and Transbaykalia, with some observations on their feeding habits (analyses of stomach contents), and mode of life. Both animals dislike deep snow and the arctic fox almost always perishes in the forest zone when forced by hunger to migrate thither from the taiga.

*Copy seen:* DLC; MH.

**26243. SKARBO, GEORGE A., and R. L. PARISH.** Sole survivor. (Alaska sportsman, June 1951. v. 17, no. 6, p. 6-9, 45-53, illus.)

Story of a storm in Southeast Alaskan waters in Oct. 1948 and the destruction of the power barge *Skarstone*.

*Copy seen:* DI.

**26244. SKELLER, ERIC.** Øjensygdomme i Grønland (Thule, Upernavik og Kuldligssat). (Ugeskrift for læger, 1949. v. 111, p. 529-32, tables, diag.) *Title tr.:* Ophthalmic disorders in Greenland, Uperland. (navik and Kuldligssat).

Out of 679 patients examined by this doctor, 14.8 per cent had eye disorders. *Epicanthus* was found in 50 per cent of cases examined; *gerontoxon cornea* in 22.5 per cent; *pinguecula* and *pterygium* in 71 per cent of males and 46 per cent of females; color blindness (not previously described from Greenland) was found in 7 per cent, all males. Diseases of the outer eye were found in 43 per cent of the cases, corresponding to an incidence of 8.4 per cent of the whole population. Twelve cases of *keratitis*, 9 of *scleritis* and *episcleritis* and 7 of *iritis* were seen; *glaucoma* was found in five certain and one uncertain case; *cataract* in eight certain and two doubtful cases. *Strabismus* was present in 4.5 per cent; *myopia* (7 per cent) is less frequent than among "cultured" people; 10 per cent were astigmatic with indirect astigmatism predominant. Hereditary eye conditions other than those mentioned were not diagnosed. 3.4 per cent were blind.—From English summary. Bibliography (19 items).

*Copy seen:* DSG.

**SKINNER, WILFRED A.,** *see* Johnson, W. M., & others. Correlation of some climatological data Bering Sea & Aleutian I. 1944. No. 23008.

**26245. SKÖGSTRÖM, VÄINÖ.** Lumiaurojen standardisoinnista. (Teknillinen aikakauslehti, 1948. 38:10, p. 322-24, diagrs.) **Title tr.:** Standardization of snow plows.

"A committee was organized in 1943 for the purpose of standardizing the various types of snow plows. It was found that much time, effort, and money were wasted because of (1) the large variety of blades being used (30 different types); (2) the types of appliances used for propelling the plows; and (3) the various methods of connecting the plows to these appliances. The committee prepared detailed suggestions for a universal coupling for the plows, and for the standardization of the blades. It was determined that the most suitable height at which to fasten the blade was  $550 \pm 50$  mm. from the ground. The size of the holes was increased to 19 mm. The shape of the holes was made cylindrical to provide 4 different ways to fasten the blade to allow even wear. A study of the most suitable metal for use in the blade was postponed because of the poor quality of metals obtainable during the war years."—SIPRE.

**Copy seen:** DLC.

**26246. SKÖGSTRÖM, VÄINÖ.** Maanteiden talvikunnossapidosta. (Teknillinen aikakauslehti, 1935. v. 25, p. 183-94, illus., diagrs.) **Title tr.:** Winter conditioning of roads.

Contains data on the agencies concerned in winter upkeep of roads in Finland; problems in keeping roads in useable condition and methods: (1) for prevention of snow gathering on roads (characteristics of snow and ice, treatment of factors contributing to snow accumulation through the wind action, snow-fences and their use); (2) for snow removal by horse, tractor and auto; (3) for keeping winter road surface in condition. Author notes improved spring condition of roads kept open during the winter.

**Copy seen:** DLC.

**26247. SKÖLD, HANNES.** Indo-uralisch. (Finnisch-ugrische Forschungen, 1927. Bd. 18, p. 216-31) **Title tr.:** Indo-Uralic.

Contains a linguistic investigation on the relations between Indo-European and Finno-Ugric languages: the author states 16 cases of parallel sounds in the two linguistic groups, and comes to the conclusion that the Indo-European and Finno-Ugric languages have been related

since very early times (sind urverwandt). Instead of "Finno-Ugric" should be used the term "Uralic."

**Copy seen:** DLC; InU.

**26248. SKOPINTSEV, B. A.** Organic matter in the waters of the Barentz, Polar and Kara Seas. (Akademiâ nauk SSSR. Comptes rendus (Doklady), 1930. nouv. ser., v. 22, no. 7, p. 448-51, tables, map)

Organic matter determinations were made (during the 40th cruise of the research vessel, *Persel* in Aug.-Sept. 1932) at 0, 25, 50 and 100 m. depth with the "oxidability" method. Oxidability values were found to be subject to great variations with a minimum in the northern part of Barents Sea, the maximum in Kara Sea.

**Copy seen:** DLC.

**26249. SKORIKOV, ALEKSANDR STEPANOVICH.** *Bombus lapponicus* (F.) i ego variatsii (♀ ♀ i ♂ ♂) (Hymenoptera, Bombidae). (Russkoe entomologicheskoe obozrenie, 1912. t. 12, no. 1, p. 95-102) **Title tr.:** *Bombus lapponicus* (F.) (♀ ♀ and ♂ ♂) (Hymenoptera, Bombidae).

Contains a synopsis of 37 forms of a northern bumble bee, *Bombus lapponicus*, with brief descriptions of 26 new subspecies and varieties, including some native to northern Scandinavia, Kola Peninsula, Arkhangel'sk province, all arctic regions of Siberia and Kamchatka, a few occurring in "arctic America."

**Copy seen:** DLC; MH-Z.

**26250. SKORIKOV, ALEKSANDR STEPANOVICH.** Die grönländischen Hummeln im Aspekto der Zirkumpolarfauna. (Entomologiske meddelelser, Dec. 1937. Bd. 20, p. 37-64, incl. map, table) **Title tr.:** Greenlandic bumble bees as a circumpolar fauna.

Discussion of ecologic, especially temperature, and systematic relationships of the bees on Greenland, Novaya Zemlya, and the remainder of the northern circumpolar region, in respect to problems of survival through the ice ages, and present-day distributional anomalies.

**Copy seen:** DSL-M.

**26251. SKORIKOV, ALEKSANDR STEPANOVICH.** K geograficheskomu rasprostraneniû nêkotorykh Priapulid (Gephyrea). (Akademiâ nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1901. t. 6, p. xxi-xxiii) **Title tr.:** On two

geographic distribution of some Priapulidae (Gephyrea).

Contains a note on *Priapulus caudatus* var. *antarcticus*, a gephyrean previously known, only from the Antarctic, found by the author in a collection from the Murmansk coast of Kola Peninsula, then discovered in other collections from the Kara Sea, Spitsbergen waters, Greenland and Bering Seas.

**Copy seen:** DLC; MH-Z.

**26252. SKORIKOV, ALEKSANDR STEPANOVICH.** Novyâ formy shmelei (Hymenoptera, Bombidae). (Russkoe entomologicheskoe obozrenie, 1907, pub. 1908. t. 7, no. 2-3, p. 111-113) **Title tr.:** New forms of bumble bees (Hymenoptera, Bombidae).

Contains preliminary Latin and Russian diagnoses of 8 new forms of bumble bees from various regions of Russia, including *Bombus kirbyellus* var. *friesei* n. var. from the Anadyr River region, northeastern Siberia.

**Copy seen:** DLC; MH-Z.

**26253. SKORIKOV, ALEKSANDR STEPANOVICH.** Novyâ formy shmelei (Hymenoptera, Bombidae). (Russkoe entomologicheskoe obozrenie, 1914. t. 14, no. 1, p. 119-29) **Title tr.:** New forms of bumble bees (Hymenoptera, Bombidae).

Contains descriptions of 19 new forms of bumble bees (Hymenoptera, Bombidae) from various regions, including *Alpinobombus kirbyellus* with 5 new varieties, native to Kamchatka Peninsula and the Anadyr River region (var. *gmellini*).

**Copy seen:** DLC; MH-Z.

**26254. SKORIKOV, ALEKSANDR STEPANOVICH.** Subfam. Echiurini nov. (Gephyrea armata). Sistematiko-monograficheskii obzor. Akademiâ nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1909. t. 14, no. 1-2, p. 77-102, plate 1) **Title tr.:** Sub-family Echiurini nov. (Gephyrea armata), a systematic and monographic sketch.

Contains a description of a new subfam. Echiurini (fam. Echiuroidea), a key to the genera and species, and a critical revision of four species and one new form of these marine gephyreans, with synonymy, data on total distribution and lists of literature for each species (118 items in all). Includes *Echiurus echiurus*, native to West Greenland, Murman coast, Kola Peninsula, Okhotsk Sea and Baranof Island waters.

**Copy seen:** DLC; MH-Z.

**26255. SKRIĀBIN, KONSTANTIN HIVANOVIC, 1878- , and E. M. MATEVOŠIAN.** Gimenoilepididy mle-kopitafûshehikh. (Akademiâ nauk SSSR. Gel'minotologicheskaiâ laboratorîiâ. Trudy, 1948. t. 1, p. 15-92, illus.) **Title tr.:** Hymenolepididae of mammals.

Contains a monographic treatment of tapeworms of mammals of the fam. Hymenolepididae, with keys, diagnoses of 78 species (in eight genera), synonyms, hosts, localization, data on biology and distribution; a bibliography (89 items). Includes *Dicranotaenia coronula* found in Yakutia and Taymyr Peninsula.

**Copy seen:** MH-Z.

**26256. SKRZYŃCKI, ADOLF.** Jakuten-bräuche. (Urquell, 1898. Ser. 3, Bd. 1, p. 6-8) **Title tr.:** The customs of Yakuts.

Contains notes on healing of eyes, performances of shamans, fear of sickness and death and abandonment of sick persons; also story told by a man who was hired as a "funeral director" by the Yakuts.

**Copy seen:** DLC; InU.

**26257. SKRZYŃCKI, ADOLF.** Der Selbstmord bei den Tschuktschen. (Urquell, 1894. Ser. 2, Bd. 5, p. 207-208) **Title tr.:** Suicide among the Chukchis.

Contains note on self-sacrifice to avert epidemics; three kinds of ritual death: by knife, lance, or lasso (strangulation); cremation of the corpse and sacrifice of a reindeer.

**Copy seen:** DLC; InU.

**26258. SKVORTSOV, V. V.** Primenenie samokhodnogo kopra dlâ rykhleniâ merzlogo grunta. (Elektricheskii stant'sii, Jan. 1952. t. 23, no. 1, p. 52) **Title tr.:** Use of an automatic pile-driver for breaking up frozen ground.

Contains a description of a pile driver, with a specially adapted dentated "digger" and its application in digging holes for electric poles.

**Copy seen:** DLC.

**26259. SKYWAYS.** Arctic survival. (Skyways, Jan. 1949. v. 8, no. 1, p. 26-27, 50-51, incl. illus.)

Contains account of 5½-day course conducted weekly from Oct. to April at Alaskan Air Command Arctic Indoc-trination School, Marks Air Force Base, Nome, Alaska. Air crewmen are taught survival techniques; construction of tundra shelters, snow caves, snow houses, etc.

**Copy seen:** DLC.

**26260. SLATER, CLARENCE S., and HENRY HOPP.** The action of frost on

the water stability of soils. (Journal of agricultural research, May 1949. v. 78, p. 341-46, tables)

*Contains* report on laboratory experiments involving freezing and thawing at different rates, repeated once and five times under various moisture conditions. The results indicate that freezing and thawing decreased the water stability of moist soils; the detrimental effect of freezing and thawing was most marked with soils of high moisture contents; the rate of freezing and thawing had no effect on loss of water stability. Practical application implies: drainage of soils to keep moisture low, reducing the depth and frequency of freezing. Bibliography (9 items).

**Copy seen:** DA.

**SLEEPER, DAVID A., 1922-**, *see* Gjullin, C. M., & others. Control black fly larvae Alaskan streams. 1949. No. 22126.

**26261. SLEPTSOV, M. M.** O biologii razmnozheniia lastonogikh Dal'nego Vostoka. (Zoologicheskii zhurnal, 1943. t. 22, vyp. 2, p. 109-128, illus.) **Title tr.:** On the biology of reproduction of Pinnipedia of the Far East.

*Contains* the results of the observations in the Okhotsk Sea upon the reproduction of Phocidae: *Erignathus barbatus nauticus*, *Phoca vitulina largha* (harbor seal), *Phoca hispida* and *Histiophoca fasciata*, with data on the time of coupling, duration of pregnancy and whelping. Summary in English.

**Copy seen:** DLC; MH-Z.

**26262. SLODKEVICH, V. S.** K stratigrafii tretichnykh otlozhenii zapadnogo poberezh'ia Kamchatki. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1934, nouv. ser., v. 3, no. 1, p. 58-62) **Title tr.:** On the stratigraphy of the Tertiary deposits of the western coast of Kamchatka.

Translation in English, p. 60-62.

**Copy seen:** DLC.

**26263. SMAGIN, A.** V kol'itse vulkanov. [Moskva] Molodaia gvardiia, 1931. 112 p., illus. (Sovremennaiia literatura dlia molodezhi) **Title tr.:** Within a ring of volcanoes.

A story written for youth about Kamchatka and its recent development, including mining, shipping, fisheries and the fish canning industry.

**Copy seen:** DLC.

**SMALL, FRED A.,** *see* Haley, T. R., & others. Food reports Juneau Ice Field 1949-51. 1951. No. 22376.

**26264. SMARAGDOVA, N. P.** Rost *Sebastes marinus* L. v Barentsovom more. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1936. Otdel. biol. Novaia seriia, t. 45, vyp. 5, p. 331-37, diagrs.) **Title tr.:** On the growth of the bass (*Sebastes marinus* L.) in the Arctic Ocean.

*Contains* a study of the growth rate of the bass *Sebastes marinus* in the Barents Sea, based on the number of age rings on the scales and on otoliths of numerous specimens of this fish collected over many years by the expeditions of the Oceanographic Institute; the period of most intense growth, the standardization and the coefficient of variation are illustrated by various diagrams and tables. Summary in English.

**Copy seen:** DLC; MH-Z.

**26265. SMEKHOV, EVSEI MAKSIMOVICH,** and V. G. MAKAROV. (neftenosnosti tretichnykh otlozhenii poluostrova Kamchatki. (Akademiia nauk SSSR. Izvestiia. Serii geologicheskii, 1946. no. 1, p. 109-114, illus.) **Title tr.:** On the oil-bearing Tertiary deposits of Kamchatka Peninsula.

"Discusses stratigraphic and tectonic relations of Tertiary formations of Kamchatka, with special reference to the Tigil oil-bearing horizon (Paleogene) of the west coast and the Bogachev oil-bearing horizon (Miocene) of the east coast."—Geological Society of America, *Bibliography and index of geology*, 1949, pub. 1950, v. 14, p. 241. Summary in English.

**Copy seen:** MH

**SMEKOV, IA. S.,** *see* Maksimov, S. V., & IA. S. Smelkov. Fiziol. kolebaniia temp. i znachenie profilaktiki otmorozenii. 1946. No. 24128.

**26266. SMENA.** Na Chukotke. (Smena, Apr. 1952. god 29, no. 7, p. 15, illus.) **Title tr.:** In Chukchi land.

*Contains* popular sketch of the economic, cultural and health situation of the Chukchis during the Czarist régime; their progress after the Revolution as illustrated by the settlement Eropol and its collective farm. **Copy seen:** DLC.

**SMILLIE, M. D.,** *see* Burky, E. L., & M. D. Smillie. Nasopharyngeal flora in health & disease. 1929. No. 21031.

**SMILLIE, R. A.,** see Adamson, J. D., & others. Poliomyelitis in Arctic. 1949. No. 20041.

**26267. SMIRNOV, A. G.** Murmanskaiä semga. (Karelo-Murmanskii krai, 1934. v. 12, no. 7-8, p. 44-47, illus.) **Title tr.:** Murman salmon.

Contains an account of the investigations conducted by the All-Union research institute in 1933 on the rivers of the Murman coast. Presents data on the salmon runs, their composition as to sex and size of individuals, rate of growth, size of catches, commercial value and utilization of the fish.

**Copy seen:** DLC.

**26268. SMIRNOV, I. I.** Osobennosti tehnika nekotorykh infektsionnykh zabolevanii v zapol'ar'e. (Klinicheskaiä meditsina, 1947. v. 25, no. 10, p. 73-75) **Title tr.:** Peculiarities of the course of some infectious diseases in polar regions.

Vorkuta (68° N. 64° E.), a rapidly growing coal-mining town and center in the Komi A.S.S.R., has a high percentage of immigrants, who had never previously lived in arctic areas. Contrary to claims otherwise, scarlet fever in the period under review (1944-47) was found as common if not commoner than in the temperate regions. Details given suggest a generally milder and shorter course of this disease with less and milder complications. One case of chicken-pox and no case of whooping cough were observed during the three-year period. Typhus and paratyphus were, contrary to expectations, sporadic; typhus appeared in a generally mild form; paratyphus A was twice as common as B. Bacillary dysentery appears as a typical, summer disease. Cases of malaria-relapse are high among people who come from malaria-infested areas. No malaria mosquitoes are reported in the region, but relapses occurred even among people who had had the disease 5-10 years earlier or had never had symptoms before. Possibility is not excluded that infected mosquitoes are carried into the area by trains or that few may even breed locally.

**Copy seen:** DSG.

**26269. SMIRNOV, I. N.** Permiâki; istoriko-ëtnograficheskii ocherk. Kazan', 1891. 289 p. (Kazan'. Universitet. Obshchestvo arkhologii, istorii i ëtnografii. Izvestiia, t. 9, vyp. 2) **Title tr.:** The Permians, an historical-ethnographical outline.

Contains chronological notes on the history of the Komi or Zyryans called Permians, compiled from various printed sources by the author. Then follows a description of their external life (dwellings, clothing, food), family life and social attitudes. Finally their language and proverbs are considered. The Zyryans live mainly in the upper and middle Pechora region, scattered groups extending almost to the arctic coast and into Kola Peninsula. **Copy seen:** InU.

**26270. SMIRNOV, LEONID P.** Russia oils up in the Arctic. (Collier's, Feb. 24, 1951. p. 18-19, 74-76, illus., map)

"A geologist who escaped the Reds reveals their plans to fuel planes and ships for war. Soviet petroleum output now is four times the Nazi peak during World War II." Smirnov, a consultant for Standard Oil Co. (New Jersey) describes in popular style, his pioneering effort as Russian government geologist prospecting for oil at Nordvik in 1933, and comments on development of petroleum resources in arctic U.S.S.R.

**Copy seen:** DLC.

**26271. SMIRNOV, NESTOR ALEK-SANDROVICH.** Zamêtki o tûlenâkh (Phocidae), sobrannyykh Russkoi Pol'arnoi Èkspeditsiei 1900-1903 gg. (Akademiâ nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1905, pub. 1907. t. 10, no. 3-4, p. 255-59) **Title tr.:** Note on the seals (Phocidae) collected by the Russian Polar Expedition 1900-1903.

Contains measurements and descriptive notes on five specimens of seals belonging to two species, *Erignathus barbatus* and *Phoca (Pusa) foetida*, brought home by the Russian Polar Expedition of Baron von Toll, 1900-1903, also from the New Siberian Islands waters: also a list of four species of Phocidae caught in north Siberian waters, with data on their total distribution.

**Copy seen:** DLC; MH.

**SMIRNOV, NESTOR ALEKSANDRO-VICH,** see also Begar, A., & N. Smirnov. Marshrut Komandor Bering 1909. No. 20529.

**26272. SMIRNOV, PAVEL ALEK-SANDROVICH, 1896-** . Kovyli SSSR. (Moskovskoe obshchestvo ispytatelei prirody. Bûlleten', 1936. Otdel. biol. Novâia seriâ. t. 45, vyp. 2, p. 104-118, illus.) **Title tr.:** *Stipa* species of the U.S.S.R.

*Contains* a critical revision of Russian species of the genus *Stipa* (Gramineae), with a key to the species and descriptions of 19 species of this grass, taxonomic notes and data on distribution; includes a few species from northern Siberia; apparently an unfinished work.

**Copy seen:** DLC; MH-A.

**26273. SMIRNOV, S. S.** *Epischura baikalensis* G. O. Sars na Kamchatke (Crustacea, Copepoda). (Akademiā nauk SSSR. Zoologicheskii institut. Trudy, 1936. t. 3, p. 59-65, illus.) **Title tr.:** *Epischura baikalensis* G. O. Sars in Kamchatka (Crustacea, Copepoda).

Description of the species with identification key for the genus *Epischura* E. Forbes. Summary in German.

**Copy seen:** DLC.

**26274. SMIRNOV, S. S.** Zametki po faune Copepoda SSSR, I. (Gidrobiologicheskii zhurnal SSSR, 1929. t. 8, no. 6-7, p. 155-65) **Title tr.:** Notes on the Copepoda fauna of the U.S.S.R., part 1.

*Contains* a study of copepods based on examination of eight small collections from various regions of the U.S.S.R., with critical notes on three fresh-water species native to Kamchatka Peninsula, collected by the Kamchatka Expedition of F. P. Riābushinskii in 1909, also on a very rare species, *Diaptomus tibetanus*, found in a lake in the basin of Kara River in the Northern Ural and on *Maraenobiotus insignipes* from northern Siberia, Kola Peninsula and Novaya Zemlya. Summary in German.

**Copy seen:** MH-F.

**26275. SMIRNOV, S. S.** Zametki po faune Copepoda SSSR, II. (Gidrobiologicheskii zhurnal SSSR. t. 9, no. 1-3, p. 8-22, illus.) **Title tr.:** Notes on the Copepoda fauna of the U.S.S.R., part 2.

*Contains* a study of crustaceans of the subclass Copepoda from various collections, with a list of 12 species, including *Moraria schmeili*, found in Lake Maslovskoye on Kola Peninsula and *Canthocamplus arcticus* and *Moraria brevipes* collected by B. S. Grese in fresh-water basins in the vicinity of Aleksandrovsk on the Murman coast. Summary in German.

**Copy seen:** MH-Z.

**26276. SMIRNOV, SERGEĬ SERGEEVICH, 1895-1947.** Nekotorye novye dannye otnositel'no olovoznosti severovostochno Azii. (Akademiā nauk SSSR. Izvestiā. Seriā geologicheskaiā, 1938. no.

5-6, p. 803-806) **Title tr.:** Some new data on tin in northeastern Asia.

*Contains* data secured in 1937 on the tin-bearing zone which comprises all the northern section from the Chukotsk Peninsula to the lower part of Yana River and the entire Verkhoyansk-Kolyma belt. This paper supplements the author's *Severo-vostok Azii*, 1937, q. v. Summary in English.

**Copy seen:** DLC; MH.

**26277. SMIRNOV, SERGEĬ SERGEEVICH, 1895-1947.** O putiakh resheniā oloviānnoi problemy. (Akademiā nauk SSSR. Izvestiā. Seriā geologicheskaiā, 1939. no. 2, p. 65-69) **Title tr.:** The way to solve the tin problem.

*Contains* a discussion of relative importance of the tin-bearing regions (Upper Kolyma, Yana, Chauna and Chukotski) in northern Siberia, ways for their development and utilization in view of climatic conditions and transportation facilities.

**Copy seen:** DLC; MH.

**26278. SMIRNOV, SERGEĬ SERGEEVICH, 1895-1947.** O tikhookeanskom rudnom poīase. (Akademiā nauk SSSR. Izvestiā. Seriā geologicheskaiā, 1946. no. 2, p. 13-27, text map) **Title tr.:** On the circum-Pacific ore belt.

*Contains* a review of the metallogenesis of the circum-Pacific belt, divided by the author into inner (rich in copper) and outer (rich in tin) zones; the northern part of the circum-Pacific belt includes the basin of the Lower Anadyr River, Kamchatka Peninsula and Alaska. Summary in English.

**Copy seen:** MH.

**26279. SMIRNOV, SERGEĬ SERGEEVICH, 1895-1947.** Ob olovo-vol'framovom orudnenii Vostoka SSSR. (Akademiā nauk SSSR. Izvestiā. Seriā geologicheskaiā, 1945. no. 6, p. 47-56) **Title tr.:** On the tin-tungsten mineralization of the U.S.S.R. East.

"The tin-tungsten ores of east Asiatic U.S.S.R. belong to a metalliferous belt extending from Bangka and Billiton in the Dutch East Indies to Dezhnev Cape and northeasternmost part of Asia on the Bering Strait. The tin-tungsten mineralization is associated with post-Paleozoic folded structures."—Geological Society of America, *Bibliography and index of Geology*, 1949. v. 14, p. 241.

The most important deposits of tin were discovered in Chauna region and in Anguoma River, western Chukotsk Peninsula; tin-tungsten deposits are also on

Chukotsk Peninsula (Iultin mines) and in the Yana and Indigirka River regions of Yakutia. Summary in English.

**Copy seen:** MH-Z.

**26280. SMIRNOV, SERGEĬ SERGEEVICH, 1895-1947.** On the concentrations of boron in the northeastern ore province. (Akademiia nauk SSSR. Comptes rendus, (Doklady), 1944. nouv. ser., v. 45, no. 1, p. 22-23)

"Describes the distribution of minerals containing boron in northeastern U.S.S.R. [Yana River, Chaun Bay, Okhotsk-Kolyma regions], including notes on the character and occurrence of the ore deposit."—Geological Society of America, *Bibliography and index of Geology, 1945-46*. v. 11, p. 303. **Copy seen:** DLC.

**26281. SMIRNOV, SERGEĬ SERGEEVICH, 1895-1947, and V. A. TSAREGRADSKIĬ.** Severo-vostok Azii, ego metallogeniia i obovonochnost'. (Akademiia nauk SSSR. Izvestiia. Seriiu geologicheskaiia, 1937. no. 4, p. 863-92, text map) **Title tr.:** Northeast Asia, its metallogenesis and tin deposits.

Contains geological data on northeastern Siberia, a survey of the metallogenesis with a list of characteristic metals for the Lower Cretaceous (gold, silver, lead, zinc, tin and antimony); a subdivision of the area into several large regions each of which is characterized according to its mineralization prospects (see text map, p. 864). The Verkhoyansk-Kolyma ore-bearing belt is noted as the most important of these regions. Bibliography (43 items). Supplemented by the author's *Nekotorye novye dannye*, 1938, q. v. Summary in English.

**Copy seen:** DLC; MH.

**SMIRNOV, SERGEĬ SERGEEVICH, 1895-1947, see also Samoilovich, R. L., & others.** Geologiia Arktiki. 1937. No. 25812.

**26282. SMIRNOV, V. I.** Nakhodki kostei krupnykh chetvertichnykh mlekoпитаushchikh s severnoi oblasti. (Akademiia nauk SSSR. Komissii po izucheniiu chetvertichnogo perioda. Trudy, 1937. t. 5, vyp. 1, p. 47-67, fold. map) **Title tr.:** The finds of bones of large Quaternary mammals in northern districts.

Indication of 137 localities in Komi and Arkhangel'sk provinces, where remains (mostly transported, but some *in situ*) of fossil elephants, rhinoceros, musk

oxen, horses, bison, etc. have been found. Conditions do not permit exact fixing of stratigraphic position, but indications are that they lie above the deposits of marine transgression. Bibliography (45 items). Summary in French.

**Copy seen:** DGS.

**26283. SMIRNOVA, E. V., and A. L. STRUTSOVSKAIA.** Vspyshka kori v zapoliarnom poselke. (Pediatriia, 1949. no. 4, p. 20-25, illus., table) **Title tr.:** An outbreak of measles in an arctic village.

Contains a report on an outbreak of measles in July-Aug. 1948 in an unidentified village of 144 persons mostly Nentsy (Samoyeds) with a few Russians. 88 fell sick, 11 died; 100 per cent of those who had no measles previously were affected; immunity had in some cases persisted for 30 years; the disease had appeared a year previously in a settlement, 600 kilometers to the south, and gradually made its way northward. In adults, clinical symptoms were severe, with characteristic intestinal symptoms and a deep disturbance of the general condition; periods of incubation and of the appearance of symptoms were normal. Lack of dead among adults (contrary to literary sources) is attributed to the fact that the outbreak occurred in the summer, to good aeration and living conditions. Three of the dead had scarlet fever at the same time. One case was observed in a five-day old child, born to a sick mother, suggesting an intra-uterine infection.

**Copy seen:** DSG.

**26284. SMITH, C. H.** The problem of control for topographic mapping on northern Canada. (Surveying and mapping, Oct.-Dec. 1951. v. 11, no. 4, p. 368-73)

Contains outline of Canadian mapping policy and aims in small-, medium- and large-scale mapping, by the Deputy Director of Military Survey Army Headquarters, Ottawa. Then follows a presentation of the special problems of mapping in the northern Canadian mainland and arctic islands. The lag in primary geodetic control due to difficult terrain and transportation problem is discussed. Three types of areas are described and transportation found best adapted to the terrain is noted: pack horse, helicopter, tractor train, dog team, etc. The Survey's use of multiplex and conventional methods in northern mapping to date is outlined. Its investiga-

tion of Shoran-controlled photography as means of rapidly extending the primary net, is appraised, and plan to test "next fall," another electronic method: Decca, a long-wave system of British design, is discussed.

*Copy seen:* D.L.C.

**SMITH, CARROLL NELSON, 1909-**, see Applewhite, K. H., & C. N. Smith. Field tests mosquito & sand fly repellents. 1950. No. 20251.

**SMITH, CARROLL NELSON, 1909-**, see also Blanton, F. S., & others. Control adult mosquitoes Alaska. 1950. No. 20718.

**SMITH, CLARENCE D., Jr.**, see Vederman, J., & C. D. Smith. Winter mid-troposphere circulation near the North Pole. 1950. No. 27074.

**26285. SMITH, COURTNEY.** Wartime public health in Alaska. (American journal of public health and the Nation's health, 1942. v. 32, p. 965-72)

Following an outline on the area, population, communication and transportation and the effect of the large population influx in 1940 due to the war, an account is given of the preventive and emergency measures taken upon the initiative of the divisional directors of Health Dept. These include: distribution of biologicals; a Territory-wide immunization campaign; provision of sera, vaccines, antitoxins to individual settlements; storage of food and first-aid materials; protection of water-supply systems; inspection of bomb shelters; organization of civil defense and Red Cross units; blood typing of the civil population and plasma storage; nursing services, etc. Data are given in the incidence of tuberculosis and the measures to combat it; also on venereal diseases and measures of suppression.

*Copy seen:* DSG.

**26286. SMITH, DOUGLAS E., and others.** Some cutaneous responses to "reflex cooling." (Federation proceedings, Mar. 1948. v. 7, p. 116) *Other authors:* Walter C. Randall and Alrick B. Hertzman.

Contains a summary of simultaneous estimations of the blood flow and temperature in the skin of the finger, forearm and cheek in men, subjected to "reflex cooling" by exposing the lower part of the body to a cold-water bath. Blood flow and temperature fell, at different rates and behaved differently in finger

and forearm; conditions in the cheek varied.

*Copy seen:* D.L.C.

**26287. SMITH, HAROLD THEODORE UHR, 1908-** . Rock glaciers in the Norman Wells area, N. W. T., Canada. (Geological Society of America. Bulletin, Dec. 1951. v. 62, p. 1480)

Abstract of paper submitted at the Society's meeting Detroit, Nov. 8-11, 1951.

*Copy seen:* DGS.

**SMITH, JANE R. G.,** see Landerkin, G. B., & others. Study antibiotic activity actinomycetes. 1950. No. 23628.

**SMITH, NELSON,** see Travis, B. V., & others. Control of mosquito larvae in Alaska with DDT. 1950. No. 26793.

**26288. SMITH, PHILIP SIDNEY, 1877-1949.** Alaska's potential oil resources. (Tulsa Geological Society. Digest, 1944-1945. v. 13, p. 66-68)

General remarks on occurrence and indication of petroleum in the Katalla-Yakataga region, on Alaska Peninsula, and in Northern Alaska.

*Copy seen:* DGS.

**26289. SMITH, PHILIP SIDNEY, 1877-1949.** Latent oil resources of Alaska may be of importance to world's future economics. (Oil weekly, Feb. 22, 1937. v. 84, no. 11, p. 82-84, 88, 90, 94, illus.)

General descriptions of the history of development and geology of the prospective oil fields in the Katalla-Yakataga, Cook Inlet-Alaska Peninsula, and Northern Alaska regions.

*Copy seen:* DGS.

**SMITH, ROBERT H.,** see Hanson, H. C., & R. H. Smith. Canada geese of Mississippi flyway. 1950. No. 22402.

**26290. SMITH-JOHANNSEN, ROBERT.** Snow data. (International Geodetic and Geophysical Union. Association of Scientific Hydrology. Assemblée générale d'Oslo, 1948. Procès-verbaux. t. 2 Travaux de la Commission de la Neige et des Glaciers, pub. 1950? p. 153-56, incl. 2 diagrs.)

Succinct remarks, accompanied by sample snow data charts, on two basic conditions considered necessary in classification of snow, (1) degree of modification of original crystal form, and (2) degree of moisture saturation; with suggested snow data code.

*Copy seen:* DGS.

**26291. SMITHERINGALE, W. V.** Geology of the Keno Hill area. (Western

miner, June 1950. v. 23, no. 6, p. 43-46, sketch map)

Description of the general geology, structures, faulting and veins, and mineralization of the Keno and Galena Hills region (63°55' N. 135°30' W.) in the Mayo region of Yukon Territory, with notes on the history of gold and silver-lead mining and transportation in the area.

**Copy seen:** DGS.

**SMUTS, ALICE BOARDMAN**, see Eite-man, W. J., & A. B. Smuts. Alaska, land of opportunity. 1951. No. 21621.

**26292. SNEZHINSKIĬ, V. A., and B. S. VORONTSOV.** Ledostav 1927 goda na rekakh severnogo basseina. Arkhangel'sk, 1928. 29 p., col. maps. **Title tr.:** The freeze-up on the rivers of the northern basin in 1927.

The study is based on questionnaires returned from 158 points in the upper Dvina basin and the area of Arkhangel'sk harbor. In addition to detailed data on freeze-up, consideration is given to air temperatures and snow-cover during the autumn and early winter.

**Copy seen:** DLC.

**SNIGIREVA, A. V.,** see Poplavskaiā, G. L., & others. Ocherki po ekologii rastenii. 1937. No. 25207.

**SNOW, CHARLES E.,** see Sanders, I. T. Societies around the world. 1952. No. 25824.

**26293. SNOW, D. W.** The winter avifauna of Arctic Lapland. (Ibis, 1952. v. 94, no. 1, p. 133-43, sketch map) "The winter environment of arctic Lapland is described, in so far as it affects the birds. The wintering birds are listed, together with their main foods and the adaptations shown by them are discussed, a distinction being drawn between "pre-adaptations" and "specific adaptations"; the effect of man on the winter fauna is estimated."—Author's summary.

**Copy seen:** MH.

**SNOW, ICE AND PERMAFROST ESTABLISHMENT,** see under U. S. Army. Corps of Engineers.

**SOBOLEV, VLADIMIR S.,** see Samoilovich, R. L., & others. Geologiiā Arktiki. 1937. No. 25812.

**26294. SÖDERBERG, ERIK.** Einige im Bergianischen Garten gezüchtete Pflanzenbastarde. (Acta horti bergiani,

1936. Bd. 11, no. 8, p. 185-94, illus., plate 1) **Title tr.:** Some plant hybrids cultivated in Bergielund Botanical Garden.

Contains brief Latin diagnoses and critical notes on four hybrids, growing in the Bergielund Botanical Garden, Sweden, including *Sedum roseum* x *S. kirilowii* v. *rubrum*, the first, a parent plant native to Torne Lappmark, Sweden, and the second, native to Russia.

**Copy seen:** DLC; MH-A.

**SÖLCH, J.,** see Klebelsberg zu Thumburg, R.v. Handbuch d. Gletscherkunde. 1948. No. 23287.

**26295. SØMME, SVEN, 1904-** . Contributions to the biology of Norwegian fish food animals. 1. *Lepidurus arcticus* Pallas 1793. Syn. *L. glacialis* Kroyer 1847. Oslo, J. Dybwad, 1934. 36 p., illus., text maps. (Norske videnskaps-akademi, Oslo. I. Matematisk-naturvidenskapelig klasse. Avhandlingar, 1934, no. 6)

Contains a study of numerical occurrence, the bathymetrical distribution and the breeding and feeding habits of a phyllopod crustacean, *Lepidurus arcticus*, an important source of food for trout and other fish in Norway; based on collections from northern Norway, Vestspitsbergen and East Greenland. Tables of measurements and data on Norwegian (table 5) and total distribution (circumpolar species) are given.

**Copy seen:** MH-Z.

**26296. SØMME, SVEN, 1904-** . Contributions to the biology of Norwegian fish food animals, 3. Zoogeographische Studien über Norwegische Odonaten. Oslo, J. Dybwad, 1937. 133 p., illus., plates 1-23. (Norske videnskaps-akademi, Oslo. I. Matematisk-naturvidenskapelig klasse. Avhandlingar, 1936, pub. 1937, no. 12)

Contains a zoogeographical study of dragonflies, an important food source for some fresh-water fishes of Norway, with a survey of distribution by regions, a list of all Norwegian species including 12 native to three northern provinces of Norway, with localities for each species, (p. 17-40). Topographical and ecological factors influencing the distribution of dragon-flies are discussed (p. 89-124). Bibliography (213 items).

**Copy seen:** MH-Z.

**26297. SØMME, SVEN, 1904-** . Fortegnelse over Nord-Norges Odonater.

(Norsk entomologisk tidsskrift, 1928, pub. 1929. Bd. 2, hefte 5, p. 298-302) **Title tr.:** A list of Odonata of northern Norway.

*Contains* a systematic list of ten species of dragonflies (Odonata) native to Nordland, Tröms and Finnmark provinces of northern Norway, with lists of localities for each species.

**Copy seen:** DA; MH-Z.

**26298. SØMME, SVEN, 1904-** . Fortegnelse over norske Odonater. (Norsk entomologisk tidsskrift, 1928, pub. 1929. Bd. 2, hefte 5, p. 222-40) **Title tr.:** A list of Norwegian Odonata.

*Contains* a systematic list of 36 Norwegian species of dragonflies (Odonata) with localities and brief data on habitat; includes some species native to northern regions.

**Copy seen:** DA; MH-Z.

**26299. SØMME, SVEN, 1904-** . Odonata from Sørøy in Western Finnmark (Norw.). (Norsk entomologisk tidsskrift, 1937. Bd. 5, hefte 1, p. 36-38)

*Contains* a list of seven species of dragonflies collected in Breivik, Sørøy, western Finnmark (70° 40' N.) in the summer of 1937; the number of individuals of these species is relatively small and this fact, according to the author, explains the abundance of mosquitoes in northern regions of Norway.

**Copy seen:** DA; MH-Z.

**26300. SØMME, SVEN, 1904-** . Weitere Beiträge zur Kenntnis der Odonaten. Vorläufige Mitteilung. (Norsk entomologisk tidsskrift, 1932. Bd. 3, hefte 1-2, p. 101-102) **Title tr.:** Further contributions to the knowledge of Odonata.

*Contains* some additions and corrections to the author's paper *Fortegnelse over norske Odonater*, 1929, q. v., including species native to northern Norway.

**Copy seen:** DA; MH-Z.

**26301. SØRENSEN, HENNING.** Olivinstensforekomsten ved Siorarsuit i Vestgrønland; en geologisk-petrografisk beskrivelse. (Dansk geologisk forening. Meddelelser, 1951. Bd. 12, p. 62-66, illus.) **Title tr.:** An occurrence of dunite at Siorarsuit, West Greenland; a geologic and petrographic description.

*Contains* a description of the deposit, which occurs in charnockitic gneiss of the Sukkertoppen district.

**Copy seen:** DGS.

**26302. SØRENSEN, JON, 1868-** . The saga of Fridtjof Nansen, by Jon

Sørensen; translated from the Norwegian by J. B. C. Watkins. New York, The American Scandinavian Foundation, W. W. Norton & Co., Inc. [c1932]. 6 p. l. [3]-372 p. front.; illus., plates. Also published in German translation: *Fridtjof Nansens saga*, Hamburg, 1939. (316 p., plates, maps). Copy in DLC.

Planned as a publication to celebrate Nansen's 70th birthday, then on his untimely death (1930) extended in scope, this work written by a friend, with Nansen's approval and his family and colleagues' cooperation, is to that extent the explorer-scientist-humanitarian's official biography. In subjective style, with quotations from diaries, correspondence, etc., it describes Nansen's family background and upbringing, his skiing, trip on the whaler *Viking* 1882, his (the first) crossing of the Greenland icecap 1888, the *Fram* drifting expedition 1893-96, etc. Sørensen sketches briefly Nansen's scientific interests; outlines his role in Norwegian politics and diplomacy; his post-war repatriation and rehabilitation work 1920-30. Final chapters deal with Nansen's honors and awards, his humanitarianism, family life, artistic talent, published works. Detailed index is included. Illustrations are based on photographs, also drawings by Nansen and Werenskiöld.

**Copy seen:** DLC

**26303. SÖYRINKI, NILO.** Illemoav, kasvirikkain itäisistä Petsamon tuntureista. (Luonnon tutkija, 1932. v. 36, no. 1, p. 20-26, illus.) **Title tr.:** Illemoav the botanically rich field area east of Petsamo.

*Contains* field notes on about 50 plant species occurring on the Illemoain field in Finnish Lapland. **Copy seen:** DLC.

**26304. SÖYRINKI, NILO.** Luottinjärven tuntureitten kasvillisuutta tutkimassa. (Luonnon tutkija, 1936. v. 40, no. 5, p. 137-46, illus.) **Title tr.:** A study of the flora in the fields of the Lake Luottinjärvi area.

*Contains* field notes on plant species encountered during a trip in Aug. 1933 in the region of this lake (69°20' N. 30°44' E. in (then) Finnish Lapland) a region whose vegetation had not been studied previously. Six habitats are illustrated.

**Copy seen:** DLC

**26305. SÖYRINKI, NILO.** Studien über die generative und vegetative Vermehrung der Samenpflanzen in der alpinen Vegetation Petsamo-Lapplands, I. Allgemeines

Teil. Helsinki, 1938. ix, 323 p., illus. incl. tables. (Suomalainen eläinjä kasvitieteellisen seura Vanamo. Kasvitieteellisiä julkaisuja. Annales botanici. Osa 11, no. 1) **Title tr.:** Studies on the generative and vegetative reproduction of seed plants in the alpine vegetation of Petsamo Lapland, 1 General part.

Field studies in 1929, 1931 and 1933 in a mountain locale of northern Finland, on the reproduction of seed plant assemblages of nine different types of habitat, provide the data for this detailed report. It covers the different species of plants in each formation, their fertility, time of flowering, maturing of seeds, abundance of fruit and seed, germination, occurrence of seed germs, duration of immaturity, and relation of their generative and vegetative reproduction (of field plants and various plant associations) Bibliography (132 items).

**Copy seen:** DA.

**26306. SÖYRINKI, NILO.** Yhtäläisyksiä ja eroavaisuuksia alpiinisen ja arktisen kasvillisuuden ekologiassa. (Luonnon tutkija, 1942. v. 46, no. 1, p. 18-25) **Title tr.:** Similarities and differences in the ecology of the alpine and arctic flora.

Contains results of a study of flora (*Silene acaulis*, *Azorella*, *Poa annua*, *Koenigia islandica*, *Phippsia algida*, *Ranunculus nivalis*, *Saxifraga oppositifolia*, *Soldanella alpina*, *Ranunculus pigmaeuk-sella*, Caryophyllaceae and Cruciferae) which occur in the Alps and the Arctic under similar conditions. The author finds that (1) ecological similarities increase in relation to permanent snow conditions of the former, and (2) the differences increase as the flora occur in less cold areas.

**Copy seen:** D.L.C.

**26307. SOFRONOV, G. P.** K geomorfologii Volkarskogo raiona (Pohānyl Ural). (Akademiā nauk SSSR. Izvestiā. Seriā geologicheskā, 1945, no. 4, p. 100-115, illus., text maps) **Title tr.:** Contribution to geomorphology of the Voykar region in the Polar Ural.

Contains a discussion of geomorphological complexes characteristic not only of this region (66°09'-66°42' N.) explored by the author in 1940, but of the Polar Ural as a whole.

"Eight physiographic units are differentiated in the Voykar region. Moraines, trough-shaped valleys, cirques, glaciers, mountain terraces, and steps are widely developed in the region, as

well as various types of polygonal soils and solifluction deposits, associated with the presence of a permafrost zone."—Geological Society of America. *Bibliography and index of geology*, 1949. v. 14, p. 242. Summary in English.

**Copy seen:** MH-Z.

**26308. SOIL CONSERVATION.** District profile: Frank B. Linn of Alaska. (Soil conservation, Sept. 1951. v. 17, p. 32)

This brief sketch of one farmer in Matanuska valley gives an insight into farming problems in the Territory.

**Copy seen:** D.L.

**26309. SOĪUZOV, A. A.** Organizatsiā raboty rechnogo flota. Dopushcheno v kachestve uchebnika dlia eksploatatsionnykh fakul'tetov in-toy inzhenerov vodnogo transporta. Moskva, Izd-vo Ministerstva rechnogo flota SSSR, 1950. 474 p., illus. **Title tr.:** Work-organization of the river fleet. Authorized as a textbook for the exploitation-faculties of institutes of river-transport engineering.

A highly specialized, technical book dealing with various aspects of the organizing of, and organizations for river transport. Navigational conditions on rivers, types of vessels used, character of river harbors, kinds of cargo, passenger, traffic, etc. are included. Sections on financial and technical management conclude the monograph, which concerns the arctic (among other) areas, the Ob', Yenisey and Lena river transport systems being basic factors in the development of the North.

**Copy seen:** D.L.C.

**26310. SOKOL'NIKOV, N. P.** Okhotnich'i i promyslovye zveri Anadyrskogo kraia. (Moskovskoe obshchestvo ispytatelei prirody. Būlleten', 1927. Otdel. biol. Novāā seriā. t. 36, vyp. 1-2, p. 117-62) **Title tr.:** Game and commercial animals of the Anadyr region.

Contains a physical and geographical survey of the Anadyr River region and data on biology, ecology and economic importance of game and commercial animals of the region, such as reindeer (*Rangifer tarandus sibiricus*), hare (*Lepus tschuktschorum*), squirrel (*Sciurus vulgaris calotus*), brown bear (*Ursus piscator*), sable (*Mustella zibellina*), ermine (*Putorius ermineus*) etc.; apparently an incomplete study but the continuation (if any) has not been located.

**Copy seen:** MH-A.

**26311. SOKOLOV, A. V., and E. G. KUSHNAREV.** Tri krugosvetnykh plavaniâ M. P. Lazareva. Moskva, Gos. Izd-vo geograficheskoi literatury, 1951. 207 p., illus., maps. **Title tr.:** M. P. Lazarev's three voyages around the world.

*Contains* an introduction giving an historical outline of Russian marine exploits and a biographic sketch of Mikhail Petrovich Lazarev (1788-1851) with appreciation of his work (p. 3-21). Then follows an account of his first voyage (1813-1816) in the *Suvorov* from Kronstadt to Rio-de-Janeiro, thence around Africa to Port Jackson (Sydney, Australia), then to Alaska and, following the west coast of the Americas, around Cape Horn and back home. The second voyage (1819-21) was to, and around the Antarctic, Australia and the Pacific. The third voyage (1822-1825) on the *Kreiser* and *Ladoga* was along a route similar to the first. Brief accounts are given (p. 58-63, 187-200) of Lazarev's activities in Alaska (around Novo-Arkhangel'sk or Sitka) during the first and third trip, life and conditions there, etc. Bibliographical footnotes.

**Copy seen:** DLC.

**26312. SOKOLOV, I. I.** K voprosu o bystrote bega Murmanskogo severnogo olenâ. (Karelo-Murmanskii kral, 1933. no. 9-10, p. 69-72, illus.) **Title tr.:** On the running speed of northern reindeer of the Murman.

*Contains* a detailed analysis of the speed of these animals at various gaits, on different roads and ground conditions, and with different harnessing. Records in speed and endurance are quoted. Males on snowy ground attained the greatest speed.

**Copy seen:** DLC.

**26313. SOKOLOV, IVAN.** Résultats scientifiques de l'expédition de l'Académie des Sciences de l'URSS à la Yakoutie. Zur Kenntnis der Hydracarinafauna von Jakutien. (Akademiâ nauk SSSR. Zoologicheskii institut. Trudy, 1932. t. 1, p. 487-90) **Title tr.:** Scientific results of the Academy of Sciences U.S.S.R. expedition to Yakutia. On the Hydracarina of Yakutia.

Twenty-three water-spiders collected in 1925-26 are listed with their localities and brief notes in German. Summary in Russian.

**Copy seen:** DLC.

**26314. SOKOLOV, M. P.** Arkhitekturnaâ struktura Poliarno-alpiiskogo botanicheskogo sada. (Moscow. Glavnyi

botanicheskii sad Akademii nauk SSSR. Bûlleten', 1949. vyp. 2, p. 40-45, illus. map) **Title tr.:** Architectural structure of the Polar-Alpine Botanical Garden.

*Contains* descriptive data on the Polar-Alpine Botanical Garden, founded in 1931 at the Khibiny Mountain Station of the Academy of Sciences, Kola Peninsula (67°40' N.); notes on its peculiar features and a discussion of better landscaping and reconstruction of some parts of this arctic garden.

**Copy seen:** MH-A.

**26315. SOKOLOV, S. E., and M. P. GLUSHNEV.** Organizatsiâ past'by olenel' v taezhnoi zone. (Sotsialisticheskoe zhivotnovodstvo, May 1952. v. 14, no. 5, p. 53-55, illus. table) **Title tr.:** The organization of reindeer pasture in the taiga zone.

*Contains* sections on the natural food of reindeer around the year; the animals' seasonal growth, weight and conditions; difficulties of reindeer farming in the taiga; methods of keeping reindeer in the Evenki (Tungus) national district; with and without enclosures; the advantages of the latter method especially in the kolkhozes; details and application of this method now used all year round.

**Copy seen:** DLC.

**26316. SOKOLOV, S. E., and M. P. GLUSHNEV.** Vyvodka i ispytanie rabochikh kachestv olenel'. (Sotsialisticheskoe zhivotnovodstvo, Feb. 1952. god 14, no. 2, p. 90-91) **Title tr.:** Breeding and testing the working qualities of reindeer.

*Contains* a report on selections and tests of reindeer, conducted at Tura (about 64° N. 100° E., center of the Evenki (Tungus) National District) with the aim of improving the stock. Data on the size and weight of selected animals; their performances in drawing sledges, cargo, etc. under different conditions are offered.

**Copy seen:** DLC.

**26317. SOKOLOV, S. ÎA., editor.** Derivâ i kustarniki SSSR; dikorastushchie, kul'tiviruemye i perspektivnye dlia introduktsii, II. Pokrytosemennyye. Moskva-Leningrad, Izd-vo Akad. nauk, 1951. 610 p., illus. (147 figs., incl. sketch map). (Akademiâ nauk SSSR. Botanicheskii institut) **Title tr.:** Trees and shrubs of the U.S.S.R.; wild, cultivated and promising for introduction, II. Angiospermae.

*Contains* a monographic treatment of

all angiospermous trees and shrubs of the U.S.S.R., with keys, brief descriptions, synonyms, data on introduction, cultivation, uses, variation, ecology and geographic distribution. Many species native to northern regions of European and Asiatic U.S.S.R. are included. A table of seeds (p. 572-73), bibliography (174 items); indexes of Russian Latin names are appended. For v. 1 of this work projected in 6 v., see *Arctic Bibliography* No. 16436. **Copy seen:** MH-A.

**SOKOLOVA, K. N.**, see Gerling, E. K., & others. On age of Lovozero tundras. 1941. No. 22081.

**26318. SOKOLOVA, M. N.** Zavisi-most' plotnosti poseleniia i formy rakoviny *Balanus balanoides* ot uslovii sushchestvovaniia. (Akademiia nauk SSSR. Doklady. nov. seriia, 1951. t. 78, no. 6, p. 1227-30, illus., diags.) **Title tr.:** Dependence of the population density and the form of the shell of *Balanus balanoides* on the environmental conditions of its life.

Contains an ecological study of the influence of abundant food and sufficient area on the population density of the barnacle *Balanus balanoides*, a typical representative of the littoral zone of the northern seas; the study was carried out in Kandalaksha Bay of the White Sea, June-Sept. 1949.

**Copy seen:** DLC; MH-Z.

**26319. SOKOLOVSKIĬ, VIKTOR.** O flore Novoi Zemli. (Leningrad. Lesnoi institut (Lesotekhnicheskaiia akademiia). Izvestiia, 1905. vyp. 5, p. 155-73, 4 plates, text map) **Title tr.:** On the flora of Novaya Zemlya.

Contains an account of the author's trip to Novaya Zemlya in the summer of 1904, the physical geography, previous exploration, etc.; floristic notes on some species of shrubby arctic willows (*Salix polaris*, *S. arctica*, *S. glauca*, etc.) and other flowering and cryptogamic plants observed, as well as data on some peculiar plant formations. **Copy seen:** MH-A.

**26320. SOLDATOV, VLADIMIR KONSTANTINOVICH, 1875-1941.** Description of a new species of *Arctodiellus* (Pisces, Cottidae) from Okhotsk Sea. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1922. t. 23, no. 3-4, p. 321-24)

Contains a description of *Arctodiellus aporosus*, a new species of Cottidae from

the Okhotsk Sea, with a table of measurements. **Copy seen:** DLC; MH-Z.

**26321. SOLDATOV, VLADIMIR KONSTANTINOVICH, 1875-1941, and M. N. PAVLENKO.** Description of a new species of family Rajidae from Peter the Great Bay and from Okhotsk Sea. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1915. t. 20, no. 1, p. 162-63, plate 5)

Contains a description and measurements of *Raja smirnovi* n. sp. from Okhotsk Sea (58°38' N. 152°45' E.).

**Copy seen:** DLC; MH-Z.

**26322. SOLDATOV, VLADIMIR KONSTANTINOVICH, 1875-1941.** Description of a new species of genus *Crossias* from Okhotsk Sea. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1916, pub. 1917. t. 21, p. 217-21, plate 13)

Contains a description of *Crossias beringi* n. sp., many specimens of which were collected by the Dept. of Fisheries vessels *Komandor Bering* and *Letenant Dydimov* in Okhotsk Sea, with measurements of some specimens and comparison with a related species, *C. allisi*.

**Copy seen:** DLC; MH-Z.

**26323. SOLDATOV, VLADIMIR KONSTANTINOVICH, 1875-1941.** Description of a new species of *Krusensterniella* Schmidt. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1922. t. 23, no. 2, p. 157-59, illus.)

Contains a description and measurements of *Krusensterniella multispinosa* n. sp. a fish native to Okhotsk Sea (55°57' N. 138°13' E.), and comparison with a related species *K. notabilis*.

**Copy seen:** DLC; MH-Z.

**26324. SOLDATOV, VLADIMIR KONSTANTINOVICH, 1875-1941.** Nekotorye vidy ryb, redkie ili novye dlia fauny nashikh severnykh morei. (In: Sbornik N. M. Knipovicha, 1939, p. 151-66, illus.) **Title tr.:** Some new or rare species of fishes of our northern seas.

Contains diagnoses, dimensions and data on the ecology and distribution of three new or rare forms of fishes: *Myctophum glaciale knipovitschi*, n. var. from western part of the Barents Sea, *Lycodes jugoricus* native to the White Sea, and *Cyclopte ropsis jordani* n. ssp. from the central part of the Kara Sea. All these species were collected by the Marine Floating Scientific Institute's research vessel *Persef.* Summary in English.

**Copy seen:** MH-Z.

**26325. SOLDATOV, VLADIMIR KONSTANTINOVICH, 1875-1941.** A new species of *Lycodes* from Okhotsk Sea. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1916, pub. 1917. t. 21, p. 214-16, illus.)

Contains a description and measurements of *Lycodes heinemanni* n. sp., a new scaleless fish taken in 1908 by B. A. Heinemann during the cruise of the Dept. of Fisheries Komandor Bering in Okhotsk Sea (58°17' N. 143°15' E.).

**Copy seen:** DLC; MH-Z.

**26326. SOLDATOV, VLADIMIR KONSTANTINOVICH, 1875-1941, and M. N. PAVLENKO.** Notes on a new species of *Myoxocephalus* (Pisces, Cottidae) from Okhotsk Sea. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1922. t. 23, no. 3-4, p. 339-44, illus.)

Contains a description of *Myoxocephalus tuberculatus* n. sp., first collected by the authors in 1913 in Okhotsk Sea, with a table of measurements of several specimens and a list of localities.

**Copy seen:** DLC; MH-Z.

**26327. SOLDATOV, VLADIMIR KONSTANTINOVICH, 1875-1941.** Notes on two new species of *Lycodes* from Okhotsk Sea. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1917, pub. 1918. t. 22, no. 1-2, p. 112-17, illus.)

Contains descriptions and measurements of *Lycodes brashnikovii* and *L. schmidti*, two new species of fishes collected in 1907 by the Dept. of Fisheries steamer Komandor Bering in Okhotsk Sea, and comparison with some related species.

**Copy seen:** DLC; MH-Z.

**26328. SOLDATOV, VLADIMIR KONSTANTINOVICH, 1875-1941, and G. U. LINDBERG.** On a new genus and species of the family Zoarcidae (Pisces) from the Okhotsk Sea. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1929, pub. 1928. t. 30, vyp. 1, p. 39-42, illus.)

Contains a description of *Lycogrammoides schmidti* n. gen. et. sp., a single specimen of which was collected in 1913 by the North Pacific Hydrographic Expedition in Tauyskaya Bay (59°20' N. 151°30' E.) Okhotsk Sea, and a table of measurements.

**Copy seen:** MH-Z.

**26329. SOLDATOV, VLADIMIR KONSTANTINOVICH, 1875-1941.** On a new genus and three new species of Zoarcidae. (Akademiia nauk SSSR. Zoologicheskii

muzei. Ezhegodnik, 1922. t. 23, no. 2, p. 160-63, illus.)

Contains a description of a new genus *Gymnelopsis*, and three new species *G. ocellatus*, *G. brashnikovii* and *Lycenchelis ornatus* in collections dredged in 1912-13 by the steamship *Leitenant Dydimov* from Okhotsk Sea, and a table of measurements of all three species.

**Copy seen:** DLC; MH-Z.

**26330. SOLDATOV, VLADIMIR KONSTANTINOVICH, 1875-1941, and A. M. POPOV.** On the new genus *Cyclopteropsis* (Pisces, Cyclopteridae) from the Okhotsk Sea. (Akademiia nauk SSSR. Doklady, seriia A, 1929. No. 10, p. 239-42, illus., table)

A morphological, comparative and zoogeographical account of this new genus is given.

**Copy seen:** DLC.

**26331. SOLDATOV, VLADIMIR KONSTANTINOVICH, 1875-1941.** Ryby i rybnyi promysel; kurs chastnoi ikhtologii. Moskva-Leningrad, Gos. izd-vo, 1928. xv, 320 p., illus. (190 fig.) **Title tr.:** Fishes and fishery; a course of special ichthyology.

Contains brief descriptions of subclasses, groups and families of fishes of classes Cyclostoma and Pisces, with rather extensive data on their biology, ecology, geographic distribution and economic importance. Chapter 9 (p. 299-308) contains data on the importance of fishery and fish resources in the world's economy and discusses methods of more efficient utilization of fish resources. Bibliography (80 items) and an index of Russian and Latin names are given. Many circumpolar species are included and data presented on the fishery throughout the world.

**Copy seen:** MH-Z.

**26332. SOLDATOV, VLADIMIR KONSTANTINOVICH, 1875-1941.** Spisok morskikh stanitsil 1911 goda, sdelenykh na kreiserie "Leitenant Dydimov" v vostochnykh moriakh. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1913, pub. 1914. t. 18, no. 4, p. lxiii-lxxxvi) **Title tr.:** List of stations made in 1911 in Okhotsk and Japan Seas by the cruiser *Leitenant Dydimov*.

The list of stations in Okhotsk Sea includes date, location, depth, implements used and brief notes on the marine fauna.

**Copy seen:** DLC; MH-Z.

**26333. SOLDATOV, VLADIMIR KONSTANTINOVICH, 1875-1941, and M. N.**

**PAVLENKO.** Two new genera of Cottidae from Tartar Strait and Okhotsk Sea. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1915. t. 20, no. 1, p. 149-54, illus., plate 4)

Contains English descriptions of *Taurocottus bergii* n. gen. et. sp., native to Tartar Strait and *Trichocottus brashnikovii* n. gen. et. sp. collected in Okhotsk Sea, with measurements of some specimens.

**Copy seen:** DLC; MH-A.

**26334. SOLDATOV, VLADIMIR KONSTANTINOVICH, 1875-1941.** Two new species of *Arctiellus* (Cottidae) from Tartar Strait and Okhotsk Sea. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1915. t. 20, no. 1, p. 155-61, illus.)

Contains a description of *Arctiellus dydimovi* n. sp. collected by the author on cruises of the Dept. of Fisheries steamship *Leitanant Dydimov* in Okhotsk Sea and a table of comparative measurements with *A. schmidti* n. sp. from the Sakhalin Island waters.

**Copy seen:** DLC; MH-Z.

**26335. SOLECKI, RALPH S., 1917- and R. J. HACKMAN.** Additional data on the Denbigh Flint Complex in northern Alaska. (Washington Academy of Sciences. Journal, Mar. 1951. v. 41, p. 85-88, illus., map)

Preliminary report on two discoveries in northern Alaska during the summer of 1950, of artifacts similar to those reported in J. L. Giddings' *Early flint horizons on the north Bering Sea coast*, 1949. The site of the new finds is by Lake Natkuk near Anaktuvuk Pass "one of the best migration pass routes through the Brooks Range Province to the northern slope of Alaska." Author describes the sites, the artifacts (with illustration) and remarks on significance of these finds "in the chain of evidence of an ancient trail leading from the Bering Straits area into the heart of the continent."

**Copy seen:** DSI-M.

**26336. SOLECKI, RALPH S., 1917-.** Archeology and ecology of the arctic slope of Alaska. (In: Smithsonian Institution. Annual report for 1950, pub. 1951, p. 469-95, illus., 6 plates, 2 maps)

A study linking ecological conditions culminating in the abundance of herbivorous mammals, with the migration of man from Asia and his first settlement here in glacial and post-glacial times. At least four cultures are represented in

the archeological finds of this area. These are (in chronological order): (1) the Folsom or Paleo-Indian culture; (2) the polyhedral flintcore and lamellar-flake people; (3) a prehistoric inland culture (probably Eskimo) blending into that of (4), the historic inland Nunatagmiut Eskimos. Bibliography (32 items).

**Copy seen:** DLC.

**26337. SOLECKI, RALPH S., 1917-.** How man came to North America. (Scientific American, Jan. 1951. v. 184, no. 1, p. 11-15, illus., incl. map)

Author outlines theory that man (following earlier migrations of game animals) entered the New World from Asia via a narrow intercontinental glacier-free land bridge in the latter part of the Pleistocene and early part of the Recent geological periods, roughly 20,000 to 10,000 years ago, "in a series of pulsations continuing over a long time." He summarizes finds of artifacts in North Alaskan localities since 1947 by Giddings and others (including Solecki), some (like those of Paleo-Indians of New Mexico) the work of Folsom Man, others Mongolian-type. He concludes that "the initial migration route into the interior of the continent was probably over the north unglaciated part of Alaska and then down the Mackenzie Basin."

**Copy seen:** DLC.

**26338. SOLECKI, RALPH S., 1917-.** New data on the inland Eskimo of northern Alaska. (Washington Academy of Sciences. Journal, May 1950. v. 40, p. 137-57, illus., 3 sketch maps)

"Appraisal of the archeological resources and possibilities for further research in the interior around the headwaters of the Colville River basin." On the basis of data submitted by members of U. S. Geological Survey parties, 1949 (one of which the author accompanied) and on available published literature, author gives descriptions of the country, the Nunatagmiut Eskimos formerly inhabiting the region, their livelihood, shelter and trade; notes on recent investigations and origins and archeology of the inland Eskimos. Bibliography (31 items).

**Appendix:** Description of the sites and artifacts.

**Copy seen:** DGS; DLC.

**26339. SOLECKI, RALPH S., 1917-.** Notes on two archaeological discoveries in Northern Alaska, 1950. (American

antiquity, July 1951. v. 17, p. 55-57, illus.)

Pre-Eskimo artifacts discovered on the Kuguruk River, north edge of the Brooks Range (DeLong Mts.) are pictured, described and discussed as further evidence "to indicate that the pass routes through the Brooks Range in northern Alaska were traversed by some of the earliest culture bearers. . . . The fact that these early manifestations were found in glaciated areas conclusively points out that these sites were occupied within post-glacial times." Bibliography (4 items).

**Copy seen:** DLC.

**26340. SOLECKI, RALPH S. 1917-** . A preliminary report of an archaeological reconnaissance of the Kukpowruk and Kokolik Rivers in northwest Alaska. (American antiquity, July 1950. v. 16, p. 66-69, illus.)

The author, attached to a U. S. Geological Survey party in 1949, explored part of the north slope of Alaska. On the basis of his and the Survey party's finds he postulates three phases of cultural history in the region: the University of Alaska Campus phase, the Colville Basin phase, and the Western interior Eskimo phase; remarks on the migration route from Asia, and the linking of inland prehistoric Eskimos to the inland Nunatagmiut Eskimos of historic time. Bibliography (7 items).

**Copy seen:** DLC.

**SOLHEIM, WILHELM, 1890-** , see *Polararbeiden*. Norsk Polarinstitutt. 1951. No. 25177.

**26341. SOLMAN, V. E. F.** Annual waterfowl breeding ground survey, northern Alberta, Northwest Territories, and Yukon Territory. (Arctic circular, Apr.-May 1952. v. 5, no. 4, p. 39-41, map)

Contains a note on the fourth aerial survey of waterfowl populations, made during June-July 1951; includes explanations on the techniques of making the counts of mature individuals and brood; the areas counted in present survey; and exploratory flights and counts.

**Copy seen:** DLC.

**26342. SOLMAN, V. E. F.** An outbreak of rabies in northwest Canada, 1951-2. (Arctic circular, Oct. 1952. v. 5, no. 5, p. 57)

Contains note of rabies in five dogs, four wolves and 15 foxes found within 100 miles of Aklavik, Dec. 1951-May

1952, also two foxes elsewhere, an outbreak involving more animals and covering a wider area than those previously known. Improved laboratory facilities and dog vaccinations are noted.

**Copy seen:** CaMAI; DLC.

**26343. SOLNTSEV, N. A.** Snezhniki kak geomorfologicheskii faktor. Moskva, Gosudarstvennoe izd-vo geograficheskoi literatury, 1949. 92 p., incl. illus. **Title tr.:** Snow patches as geomorphological factor.

"Observations indicate that snow patches form in areas of relatively little snowfall when extensive melting does not occur during winter months. Snow drifting and accumulation in ravines, crevices, and hollows induce the development of snow patches or fields which persist throughout the spring, and frequently throughout the summer. The erosion taking place underneath the snow fields during warm weather months facilitates solifluction. Nivation occurs on slopes lacking vegetation. Flat areas such as Central European U.S.S.R. are not subject to nivation. The nivation processes are retarded in Arctic areas by relatively low temperatures. Intensive nivation processes take place in the vicinity of Ufa, on the Central Siberian plateau, in Yakutia and Zabaysk due to late springs, well developed configuration, and relatively high elevation."-SIPRE. Bibliography (64 items).

**Copy seen:** DLC.

**26344. SOLOMIANSKAÏA, L.** Vozle Belogo moria. (Sovetskaiâ zhenshchina, Sept.-Oct. 1952, no. 5, p. 8-12, illus.) **Title tr.:** Near the White Sea.

Contains popular account of the milk and vegetable supplies for the city Arkhangel'sk produced on the nearby collective farm (kolkhoz) "Stalin"; the chicken farm, the three dairy farms, land reclamation, fruit orchard, potato field, finances of the collective.

**Copy seen:** DLC.

**26345. SOLOUKHIN, V.** Severnâia familiâ. (Ogonëk, May 1952. 30 god, no. 21, [2] p. insert, with col. illus. between p. 8-9) **Title tr.:** Northern family.

Contains a popular sketch of the fishing village Koyda (on the east coast of White Sea (about 66° N. 43° E.) at the mouth of Koyda River) its people, fishing and fishing seasons.

**Copy seen:** DLC.

**26346. SOLOUKHIN, V.** *Za pestsami.* (Ogonek, Dec. 1952. v. 30, no. 50, p. 7-8, illus.) **Title tr.:** After arctic foxes.

Contains a sketch of fox-trapping experiences in the spring of 1948 on the shores of the Kara Sea in the Amderma tundra region (69°45' N. 61°40' E.). Author mentions the lemming migration and its effect on the arctic fox, on fox migration and frequency, and thus (indirectly) on the economy of the trappers. Account of trapping the fox, a meeting of the trappers, etc., is given.

**Copy seen:** DLC.

**26347. SOLOVEICHIK, M. M.** *Vnedrzh' sektsionnye ploty TSNII lesosplava na rekakh Severa.* (Lesnaya promyshlennost', May 1952, no. 5, p. 20-22, illus.) **Title tr.:** Introduce the sectional raft TSNII for floating timber on the rivers of the North.

Contains remarks on the present, inadequate methods of floating timber down the Northern Dvina and its right tributary the Vyehedga; and account (with illus.) of a new type of raft introduced and tried in 1951, the way it is built, its advantages in capacity, labor saving and performance.

**Copy seen:** DLC.

**26348. SOLOV'EV, MIKHAIL MIKHAILOVICH.** *Polychaeten-Studien, I. Die Terebelliden des Weissen Meeres.* (Akademiya nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1899. t. 4, no. 2, p. 179-220, plates 10-13) **Title tr.:** Polychaeta studies, I. Terebellidae of the White Sea.

Contains a critical revision of marine annelid worms of the subclass Polychaeta of the White Sea, including descriptions of *Solowetia* n. gen., *S. malmgreni* and *Amphitrite birulai* n. spp., also 12 other species occurring in that sea, with keys, synonymy and critical notes, a bibliography (26 items).

**Copy seen:** MH-Z.

**SOLOV'EV, P. A.,** see Efimov, A. I., & others. *Podmerzlotnye vody rafona Iakut-ska.* 1945. No. 21610.

**26349. SOMMERS, LAWRENCE M.** *Svalbard: Norway's arctic frontier.* (Scientific monthly, June 1952. v. 74, p. 338-45, 2 maps)

Contains some general geographic information, based on research beginning in 1948, on the physiographic, historical, economic, political, and social relations of Svalbard, particularly West Spits-

bergen. A few data on the population and coal industry are included.

**Copy seen:** DGS; DLC.

**26350. SON-LOZA, Z. N.** *Podgotovit' lesovoznyne zheleznye dorogi k zime.* (Lesnaya promyshlennost', Sept. 1952. v. 12, no. 9, p. 18-19) **Title tr.:** Prepare timber-carrying railways for the winter.

Contains sections on: the importance of early preparations on lines and stock for the winter; of water and drainage installations; checking the rails and bed; branch-offs and crossings; drift prevention and snow removal; preparation of firewood for the locomotives, and of lubricants, etc.

**Copy seen:** DLC.

**26351. SONNTAG, WOLFGANG.** *Fridtjof Nansen. Norsk utgave ved Liv Nansen Høyer.* Oslo, Gyldendal, 1947. 468 p. **Title tr.:** Fridtjof Nansen. Norwegian edition by Liv Nansen Høyer.

Norwegian translation by Nansen's daughter, of Sonntag's *Held des Friedens, Fridtjof Nansens Leben* (The hero of peace, the life of Fridtjof Nansen), Zürich, 1943. 424 p. Copy in OCL. The translator has added two chapters: Nansens livsanskuelse (Nansen's outlook on life) and Reisens slutt (End of the journey), is responsible also for smaller sections, and Professor Bjørn Heiland Hansen for a chapter dealing with Nansen's scientific work. First part of the book (p. 11-234) deals with his family background, upbringing, his various expeditions and travels; pt. 2 (p. 239-316) emphasizes his political life; pt. 3 (p. 319-468) treats mainly his humanitarian work.

**Copy seen:** DLC.

**26352. SOOT-RYEN, TRON, 1896-.** *Hydrographical investigations in the Tromsø district, 1934-1938* (tables). Tromsø, Karlens tryk., 1947. 4, lxiv p. (Tromsø. Museum. Aarshefter, 1943, pub. 1947. v. 66, nr. 1. (Naturhistorisk avd. no. 33))

Contains tabulated data on the results of hydrographical investigations carried out in Tromsø waters in 1934-38; supplements the author's earlier works (*Arctic Bibliography*, No. 16501-16503).

**Copy seen:** MH-Z.

**26353. SOOT-RYEN, TRON, 1896-.** *A list of the Norwegian Lycoridae (Diptera Nematocera).* (Norsk entomologisk tidsskrift, 1942. Bd. 6, hefte 2-3, p. 74-80)

Contains a list of 55 Norwegian species

of dipters of the family Lycoridae with Norwegian localities, including at least 30 species, native to northern Norway, and three species from Spitsbergen.

**Copy seen:** DA; MH-Z.

**26354. SOOT-RYEN, TRON, 1896-** . Ornithologiske iakttagelser på Måkeskjær i Troms fylke. (Norsk ornithologisk tidsskrift, 1935. ser. 4, no. 14-15, p. 64-69)

**Title tr.:** Ornithological observations on Måke rock in Troms county.

Field notes on 21 species of nesting birds observed on an islet north of Tromsø, at 70°11'03" N. 19°00'07" E., spring and summer 1933; with list of 13 additional species which were casual visitors.

**Copy seen:** DI.

**26355. SOOT-RYEN, TRON, 1896-** . *Platyphora lubbocki* Verrall (Diptera) funnet i Nord-Norge. (Norsk entomologisk tidsskrift, 1942. Bd. 6, hefte 2-3, p. 81-82, illus.) **Title tr.:** *Platyphora lubbocki* Verrall (Diptera) found in northern Norway.

Contains a first record of the find of a dipter, *Platyphora lubbocki*, in northern Norway, captured (male and female) in Malangen to the south of Tromsø, on Aug. 13, 1941. Summary in English.

**Copy seen:** DA; MH-Z.

**26356. SOOT-RYEN, TRON, 1896-** . *Scaeva arcuata* Fallén 1817. (Entomologisk tidsskrift, 1946. Årg. 67, häft. 4, p. 195-97)

Contains a critical study (in English) of five original specimens of a syrphus fly, described by C. F. Fallén as *Scaeva arcuata*, Lund 1817 (not seen), and recorded by other authors in Europe and America from the major part of North America, Greenland and Europe; the synonymy of this species, closely related to *S. lapponicus*, is established by the author.

**Copy seen:** DA; MH-Z.

**26357. SOPER, JOSEPH DEWEY, 1893-** . The published works of J. Dewey Soper on natural history and exploration. 8 p. typewritten.

Contains list of 93 scientific papers and popular articles published 1913-1951, on mammalian and bird ecology (with a few on fish, Eskimos, etc.). They concern central, western, and especially northern Canadian localities.

**Copy seen:** CaMAI.

**SOPER, JOSEPH DEWEY, 1893-** , see also Farmer, H. W. Search for blue goose. 1946. No. 21741.

**SORENSEN, JOHN L.,** see Johnson, W. M., & others. Correlation climatol. data Bering Sea & Aleutian I. 1944. No. 23008.

**26358. SORGE, ERNST, 1899-1946.** The arctic region. 85 l. typescript. Translated from the German original: *Die Arktis*, published in v. 9 (1937) pt. 8, p. 496-544 of *Handbuch der geographischen Wissenschaft*, Potsdam, 1930-40. (11 v. in 13), set in ICJ and MB.

Characterization of (1) the Arctic as a whole; its delimitation, geological structure (noting characteristic phenomena such as polygon soils, glaciers); the Arctic Ocean and its ice cover, currents; climate; plant life; fauna (including man). Then follow sections on (2) Canadian Arctic Islands; and (3) Greenland, characterized in some detail under topics as above, also (particularly for Greenland) exploration, economic life, trade and administration; (4) Svalbard; (5) Franz Josef Land; (6) Novaya Zemlya; (7) Severnaya Zemlya; and (8) New Siberian Islands. The treatment of the latter sectors is condensed but specific.

**Copy seen:** DLC.

**26359. SOULE, FLOYD MELVILLE, 1901-** . Arctic ice drift and the Humboldt Current. (Science, July 1950. v. 112, no. 2898, p. 61-62, tables)

Author takes exception to the article of L. R. Boone, *A prediction regarding the Humboldt Current*, q. v., insofar as the ice seasons of 1922 and 1938, cited as unusually heavy for the Newfoundland Banks region, were not the only such seasons. He also criticizes Boone's assumption that an unusually high number of icebergs calved from their arctic parent glaciers is reflected by a high berg count in latitudes south of 48° N., as apparently assumed by Boone.

**Copy seen:** DA.

**SOULE, FLOYD MELVILLE, 1901-** , see also U. S. Coast Guard. International ice observ. & patrol 1941, 1948. 1950. No. 26899.

**SOULE, FLOYD MELVILLE, 1901-** , see also U. S. Coast Guard. International ice observ. & patrol 1949. 1951. No. 26900.

**SOULE, FLOYD MELVILLE, 1901-** , see also U. S. Coast Guard. International ice observ. & patrol 1950. 1951. No. 26901.

**26360. SOUSTOV, N. I.** Novye dannye po geologii Khibinskogo raiona. (Akademii nauk SSSR. Comptes rendus (Doklady), 1934. nouv. ser., v. 4, no. 8, p. 506-511) *Title tr.:* New data on the geology of the Khibiny district.

Report on the stratigraphy and mineralogy of the district, furnished by the Khibiny-Imandra Party of the Kola Expedition of the Academy of Sciences, 1934. Translation in English, p. 509-511.

*Copy seen:* DLC.

**26361. SOUTH, ORON P.** Alaska and national policy. (Air University quarterly review, Summer 1949. v. 3, no. 1, p. 44-47)

Brief discussion of needed development of transportation facilities (Alaska Railroad, highways, shipping, a railroad from Prince Rupert or Dawson Creek to Fairbanks), and generally of "an economic structure that will endure after the immediate need for the military forces has disappeared."

*Copy seen:* CaMAI.

**26362. SOVERI, U.** Tiegeologian tehtävistä ja merkityksestä. Tiegeologian asema olisi meillä vakiinnutettava. (Tie-lehti, 1951. v. 21, no. 1, p. 12-13, 17-18) *Title tr.:* The work and significance of the road-geologist. The position should be made permanent.

Notes contribution of the geologist to road building; various road-building problems in Finland (including the northern part) as related to the field of geology.

*Copy seen:* DLC.

**26363. SPÄNGBERG, JACOB.** Species Scandinaviae Anartae generis noctuarum. (Entomologisk tidskrift, 1880. Årg. 1, häft 1, p. 3-15) *Title tr.:* Scandinavian species of the genus *Anarta* (*Noctua*).

Contains a synopsis of species of the genus *Anarta* and an enumeration of eleven species with diagnoses, synonymy and data on geographic distribution in Scandinavia; all species occur in northern regions.

*Copy seen:* DLC; MH-Z.

**26364. ŠPAČEK, KLEMENS.** Prof. Dr. Embrik Strand 60 Jahre. (In: Festschrift Dr. E. Strand, 1939. Bd. 5, p. 1-55) *Title tr.:* Sixty years of the life of Prof. Dr. Embrik Strand.

Contains a brief biographical sketch of this Norwegian zoologist and an annotated subject bibliography of his zoological and entomological papers (185), except those dealing with Arachnida, Myriopoda, Lepidoptera and Hymenop-

tera (p. 5-27); a large number of critical notes and reviews (p. 27-49) and 36 papers on various subjects. Several of Strand's papers deal with arctic species.

*Copy seen:* DSI-M; MH-Z.

**26365. ŠPAČEK, KLEMENS.** Zur zoographischen Verbreitung des *Calopus serraticornis* L. (Col., Oedemeridae). (In: Festschrift Dr. E. Strand, 1936-37, pub. 1937. Bd. 2, p. 355-62) *Title tr.:* On the geographic distribution of *Calopus serraticornis* L. (Col., Oedemeridae)

Contains a survey of the entomological literature on the distribution of this beetle, including citations of many Scandinavian entomologists' work on its occurrence in Lapland.

*Copy seen:* DSI-M; MH-Z.

**26366. SPÄRCK, RAGNAR, 1896-** Über die zoogeographische Bedeutung der Petersenchen Tiergemeinschaften. (Zoogeographica, Nov. 1936. Bd. 3, p. 132-44) *Title tr.:* On the zoogeographical significance of the Petersen animal community.

Study of how far C. G. J. Petersen's hypothetical chart of animal communities in his *On the distribution of the animal communities on the sea bottom* (Danish Biological Station, Report 22, pub. 1914) agrees with subsequently published data. Discussion includes the arctic, boreo-arctic and boreal communities of the shallow Eurasian seas and West Greenland.

*Copy seen:* DSI-M.

**SPANGENBERG, E. P.,** see Dement'ev, G. P., & others. Ptitsy Sovetskogo Soûza, t. 1. 1951. No. 21415.

**26367. SPARRE SCHNEIDER, HANS JACOB, 1853-1918.** Coleoptera og Lepidoptera ved Bergen og i naermeste omegn. (Bergen, Norway. Museum. Aarbok, 1901, no. 1, p. 1-223, plate) *Title tr.:* Coleoptera and Lepidoptera of Bergen and vicinity.

Contains a systematic list of 402 beetles and 292 butterflies and moths inhabiting Bergen county and adjoining counties; although the explored region is in southern Norway, the distribution of each species is given for the whole country, including northern regions, and in many cases for Sweden and Finland.

*Copy seen:* MH-Z.

**26368. SPARRE SCHNEIDER, HANS JACOB, 1853-1918.** En entomologisk udflygt til Bardodalen og Altevand i

Juli 1893. (Entomologisk tidskrift, 1895. Årg. 16, häft. 4, p. 225-48) **Title tr.:** An entomological excursion to Bardodalen and Altevand in July 1895.

**Contains** a general account of the author's trip in July 1893, to Bardodalen and Altevand in Troms province, with a sketch of the entomological fauna of the region and a list of 65 beetles (Coleoptera) and 84 butterflies and moths collected during the trip.

**Copy seen:** DLC; MH-Z.

**26369. SPARRE SCHNEIDER, HANS JACOB, 1858-1918.** Entomologiske udflugter i Tromsø omegn. (Entomologisk tidskrift, 1889. Årg. 10, häft. 4, p. 193-216) **Title tr.:** Entomological excursions in the Tromsø region.

**Contains** a general description of entomologic fauna of the vicinity of Tromsø, with references to numerous species of insects and some plants observed during three excursions to that region in May-June, 1889. Summary in French.

**Copy seen:** DLC; MH-Z.

**26370. SPARRE SCHNEIDER, HANS JACOB, 1853-1918.** Fortsatte bidrag till kundskaben om Sydvaranger lepidopterfauna. (Entomologisk tidskrift, 1883. Årg. 4, häft. 2, p. 63-88, 117-19, map) **Title tr.:** Further contribution to knowledge of the lepidopteran fauna of Sydvaranger.

**Contains** a list with descriptive and critical notes on 81 lepidopters collected by the author and G. Sandberg in Sydvaranger coastal region (69°-70° N.) in the summer of 1882, including *Agrotis comparata* and *Acidalia schøyeni* n. spp., and 17 other species new to lepidopterous fauna of this region. Summary in French.

**Copy seen:** DLC; MH-Z.

**26371. SPARRE SCHNEIDER, HANS JACOB, 1853-1918.** Mindre entomologiske meddelelser fra det arktiske Norge (Entomologisk tidskrift, 1885. Årg. 6, häft. 1-3, p. 145-59) **Title tr.:** Entomological notes from arctic Norway.

**Contains** reports on the mass appearance of some coleopters and lepidopters in northern Scandinavia (Tromsø) in 1883-84, data on damage done by some injurious insects (*Silpha opaca* and *Lutella cruciferarum*) and description of a trip in the hunt for coleopters. Summary in French.

**Copy seen:** DLC; MH-Z.

**26372. SPASSKIĬ, A. A., and others.** Novye dannye o faune paraziticheskikh

chervel ondatry, *Ondatra zibethica* (L.). (Akademiâ nauk SSSR. Gel'mintologicheskââ laboratoriiâ. Trudy, 1951. t. 5, p. 42-52) **Title tr.:** New data on the parasitic worms of the muskrat, *Ondatra zibethica* (L.). **Other authors:** N. P. Romanova and N. V. Naldenova.

**Contains** a list of 49 species of parasitic worms of the muskrat in North America and another list of 24 species infecting the same rodent acclimatized in the U.S.S.R. (since 1928). Description is given of some parasites, including *Aprostotandrya macrocephala*, native to Arkhangel'sk province; only three American species were recorded in Russian muskrats.

**Copy seen:** MH-Z.

**SPASSKIĬ, A. A., see also Pod'âpol'skââ, V. P., & others.** Rabota 265-18 gel'mint. êksped. 1947. 1951. No. 25129.

**26373. SPASSKIĬ, N.** K faune gidroidov Kol'skogo zaliva i iûgo-zapadnoi chasti Barentsova morâ. Murmansk, 1929. 48 p. 4 plates. (Leningradskoe obshchestvo estestvoispytatelei. Murmanskââ biologicheskââ stantsiâ. Raboty, t. 3, no. [2]) **Title tr.:** Contributions to the hydroid fauna of Kola Bay and the southwestern part of Barents Sea.

**Contains** result of study of a large collection of hydroids from southwestern Barents Sea particularly Kola Bay. 70 species are listed, some 22 new for the area and largely warm-water forms. Three new species are reported and described. Bibliography (29 items). Summary in German.

**Copy seen:** DLC.

**SPASSKIĬ, V., see Rozanov, P., & V. SpasskiĬ.** Klimat. 1947. No. 25699.

**26374. SPATH, LEONARD FRANK, 1882-** Additional observations on the invertebrates (chiefly ammonites) of the Jurassic and Cretaceous of East Greenland, II. Some Infra-Valanginian ammonites from Lindemans Fjord, Wollaston Forland; with a note on the base of the Cretaceous. København, C. A. Reitzel, 1952. 40 p., illus. (Meddelelser om Grønland. Bd. 133, no. 4) Results of the Geological expedition til Ostgrønland, 1936-1938, under the leadership of Laue Koch.

**Contains** descriptions of a new ammonite subfamily, Tollinae, a new genus, *Praetollia* and two new species, *P. maynci* and *P. aberrans* from Infra-Valanginian beds of the Lindemans

Fjord region (74°40' N. 20°30' W.) of East Greenland. Author discusses the difficulties in correlation, from boreal to southern and from continent to continent in view of the lack of information concerning faunal succession in the Arctic and stratigraphic knowledge of the Jurassic - Cretaceous boundary. Bibliography (59 items). **Copy seen:** DGS.

**26375. SPEALMAN, C. R.** Effect of ambient air temperature and of hand temperature on blood flow in the hands. (American journal of physiology, Dec. 1945. v. 145, p. 218-222)

*Contains a study on blood flow in hands of young men sitting in warm, comfortable, and cold environments with their hands immersed in water of 2° to 35° C. At any given hand temperature blood flow was greater the warmer the body. Bibliography (10 items).*

**Copy seen:** DLC.

**26376. SPEALMAN, C. R.** Effect of local temperature upon blood flow in extremities. (Federation proceedings, Mar. 1945. v. 4, p. 67)

*Contains a brief abstract on observations on the volume of blood-flow through the hand. Blood flow was least when hands were moderately cold (15°-20° C.); when hands were very cold, blood flow approximated that in warm hands; this holds when subject was in a comfortable environmental condition. When the subject was cold, the blood flow in the hand showed a similar trend though it was considerably less at any given temperature.*

**Copy seen:** DLC.

**26377. SPEALMAN, C. R., and others.** Influence of environmental temperature and posture on volume and composition of blood. (American journal of physiology, Oct. 1947. v. 150, p. 628-39) *Other authors:* M. Newton, and R. L. Post.

*Contains a study on man exposed for about a week to either heat or cold, and also on the effect of prolonged standing or lying down. The concentration of plasma protein and hemoglobin increased on cold exposure, and decreased on exposure to heat. The amount of plasma protein decreased during the first few days of cold exposure and increased in the heat experiments. The environmental extremes did not affect the amount of the circulating hemoglobin. Plasma protein increased in amount during standing and decreased in the recumbent*

position; no change in the amount of hemoglobin was observed. Bibliography (13 items).

**Copy seen:** DLC.

**26378. SPEALMAN, C. R.** Laboratory and field studies: water. (*In:* Newburgh, L. H., ed. Physiology of heat regulation and the science of clothing, 1949. p. 370-74, diagr., table)

*Contains an analysis of heat loss during cold immersion and of measures and equipment to prevent it. The value of various types of protective clothing is discussed. Bibliography (10 items).*

**Copy seen:** DLC.

**26379. SPEALMAN, C. R.** Laboratory and field studies: wet cold. (*In:* Newburgh, L. H., ed. Physiology of heat regulation and the science of clothing, 1949. p. 367-70, tables)

*Contains account of wet cold particularly as affecting human feet: "immersion foot" and "trench foot," causative factors, pathology, prevention, footgear requirements, etc.*

**Copy seen:** DLC.

**26380. SPEALMAN, C. R., and others.** Observations on energy metabolism and water balance of men subjected to warm and cold environments. (American journal of physiology, Feb. 1948. v. 152, p. 233-41) *Other authors:* W. Yamamoto, E. B. Bixby, and M. Newton.

*Contains a report on experiments which demonstrated that energy metabolism was not greatly affected by environmental extremes; basal metabolism (in one experiment) was slightly higher during exposure to cold for a few days, than prior to exposure; diets consumed in the heat contained somewhat more fat and less carbohydrate or protein than those consumed in the cold; there was evidence for storage of water on changing from a warm to a cold environment and loss of water under the reversed circumstances. Bibliography (18 items).*

**Copy seen:** DLC

**26381. SPEALMAN, C. R.** Physiologic adjustments to cold. (*In:* Newburgh, L. H., ed. Physiology of heat regulation and the science of clothing, 1949. p. 232-39)

*Contains information of a quantitative nature necessary for the development of a science of clothing. Includes sections on physiologic mechanisms of cold adjustment, acute and chronic exposure to cold. Bibliography (57 items).*

**Copy seen:** DLC.

**26382. SPECK, FRANK GOULD-SMITH, 1881-1950.** Analysis of Eskimo and Indian skin-dressing methods in Labrador. (Ethnos, Stockholm, 1937. Bd. 2, no. 6, p. 345-53, 11 illus.)

Technique of preparation of different kinds of skins, native terms.

*Copy seen:* DSI-M; INU.

**SPECK, FRANK GOULDSMITH, 1881-1950, see also Sanders, I. T.** Societies around the world. 1952. No. 25824.

**26383. SPERBER, CHRISTINA.** A taxonomical study of Naididae. (Zoologiska bidrag från Uppsala, 1948-50, pub. 1948. Bd. 28, p. 1-296, illus., plates 1-21)

Contains a taxonomic study of small fresh-water (and brackish water) annelids of the family Naididae, with a comparative morphological investigation of 37 Swedish species (p. 8-56); descriptions of about 120 species, including diagnoses of three new species, synonyms, critical notes and data on Swedish and total distribution (p. 56-244); a phylogenetical discussion (p. 244-69); bibliography (about 340 items); list of localities and a systematic index. Includes several species native to Swedish Lapland; extra-Swedish distribution is given in general terms (by countries).

*Copy seen:* MH-Z.

**SPETZMAN, LLOYD A., see Polar record.** L. A. Spetzman's botanical investigations. 1952. No. 25157.

**26384. SPICE, E. B.** Possibilities and limitations of gravity concentration as applied to pitchblende ores at Port Radium, N. W. T. (Canadian Mining and Metallurgical bulletin, Aug. 1950, v. 43, p. 446-49; also in: Canadian Institute of Mining and Metallurgy. Transactions, 1950, v. 53, p. 309-312)

Discussion of size, grade, composition and hardness of the pitchblende ore as it affects mill operation, and a note on milling costs, based on experience of the Eldorado Mining and Refining, Limited.

*Copy seen:* DGS.

**26385. SPINNANGR, FINN, and H. HJORTH.** On thunderstorm forecasting in western Norway. (Bergen, Norway. Museum. Aarbok; naturvidenskabelig rekke, 1941, pub. 1942, no. 9, p. 1-38, diagr., text maps)

Contains the results of the examination of all cases of thunderstorms in western Norway in the five-year period, 1935-39, in order to obtain forecasting rules; by means of the synoptic charts the authors

have determined the source regions and air trajectories of the air masses and estimated the heat content, the moisture distribution and stability conditions in the masses; the study deals (in part) with northern provinces of Norway.

*Copy seen:* MH-Z.

**26386. SPIRIDONOV, N. I. Ūkagiry.** (In: Bol'shaia sovetskaiā ēnsiklopediā. 1926-47. v. 65, col. 167-69, map) Title tr.: The Yukaghirs.

Account of this fragment (about 1000) of an ancient and formerly numerous group living on the tundra of the Kolyma region in Yakutia; their history and relationship with the Tungus, their migratory way of life; settlements; domestic animals and reindeer; fishing and hunting; social organizations and family life; language and religion, ancestor cult and shamanism; their liberation by the Russian revolution and subsequent autonomy with cultural and economic freedom.

*Copy seen:* DLC.

**26387. SPIRIN, IVAN TIMOFEEVICH.** Pokorenie severnogo polūsa. Moskva. Gos. izd-vo geograficheskoi literatury. 1950. 314 p., illus., tables. Title tr.: The conquest of the North Pole.

Contains an account of the air expedition to the North Pole in the spring of 1937, for the establishment of the Soviet Drifting Ice-Floe station "North Pole". Introductory chapters (p. 3-65) recount previous arctic explorations, dealing with earliest Russian settlement of the Arctic, attempts at a northeast passage, attempts to reach the North Pole and R. E. Peary's success, attempts to reach the Pole by air, Russian colonization of the Arctic, etc. Then follow chapters on preparations for the present expedition headed by Otto Ū. Shmidt, its plans and members; detailed itinerary (Moscow - Nar'yan Mar - Matochkin Shar - Ostrov Rudol'fa - North Pole and back); the establishment of the four-man scientific party on a large floe near the Pole which subsequently drifted southward off the East Greenland coast. Rudol'f Island is described (p. 155-96), the polar area (p. 254-82). The significance of the work of the drifting ice-floe station is discussed. The author was chief pilot of the air expedition.

*Copy seen:* DLC.

**26388. SPIZHARSKII, T. N., and others.** Geologiā ūzkhnoi chasti Sartano-Adychanskogo mezhdurech'ia. Leningrad. 1940. 137 [2] p. incl. tables, illus., 2

plates, fold. map. (Vsesoŭŭznyĭ arkti-cheskil institut. Trudy, t. 146) **Title tr.:** Geology of the southern part of the Sartang - Adycha River region.

**Contents:** Spizharskil, T. N., and I. Z. Khelfets. Geologiya, geomorfologiya i metallogeniya Sartano - Adychanskogo mezhdurech'ya. (Geology, geomorphology and metallogeny of the Sartang - Adycha River region), p. 5-126, including bibliography (56 items).

Kiparisova, L. D. Novaya fauna verkh-nego triasa Verkhoyan'ya. (New fauna of the Upper Triassic of Verkhoyan'ye), p. 127-38.

Result of the Adycha - Yana Geological Expedition of the Arctic Institute 1937-38 under the senior author's leadership, in the region 64°40'-66° N. 132°30'-138° E. Chapters on geomorphology (relief, river systems, lakes); stratigraphy; vulcanism; petrographic work; tectonics; metallogeny; and fossils.

"Upper Paleozoic, Triassic, Jurassic, and Quaternary deposits occur in the headwater region of the Sartang and Adycha Rivers [left tributaries to the Yana, in Yakutia] . . . Igneous intrusions, mainly granodiorites, traverse the Permian to Jurassic beds. Several of the igneous rocks are described. Upper Triassic cephalopods, pelecypods, and brachiopods (including new species) are also described."—Geological Society of America. **Bibliography and index of geology, 1941-42.** Fold. map scale 1:500,000 with contours, shows hydrological network and geology with profile inset. **Copy seen:** DLC.

**SPRAGUE, A. J.,** see Alaska. Fish Commission. Alaska salmon & propagation. 1921. No. 20113.

**26389. SPUHLER, JAMES N.** Some genetic variations in American Indians. (In: Viking Fund Summer Seminar in Physical Anthropology. 4th Sept. 1949. Papers on . . . the American Indian, 1951, p. 177-202)

Author applies three criteria in selecting characters for the present analysis: (1) genetic determinants of variation in character must be "known"; (2) character must be "common" in most Indian populations; (3) distributional data for the character must be available for one or more Indian populations; (the terms "common" and "known", as used here are explained. On the basis of these three criteria, the following factors were chosen for study: secretor factor; PTC taste

reaction; phlebograms of the anterior thorax; color perception; occipital (lambdoidal) hair whorl; palmaris longus muscle; peroneus tertius muscle; number of vallate papillae. Data on these factors for Indians are compared with those of Eskimos and other groups. Whilst the data obtained were too scanty for an analysis of relationships of American native peoples, they do indicate that the Indians are more closely related to the Mongoloid races than to the Negroids or Caucasoids. Bibliography (nearly 100 items). **Copy seen:** DAL.

**26390. SSYTSCH-AWERINZEW, NATHALIE.** Über *Pleuronectes glacialis* aus dem Weissen Meere. (Zoologischer Anzeiger, 1929. Bd. 91, no. 5-8, p. 156-67, diag.) **Title tr.:** On *Pleuronectes glacialis* from the White Sea.

Contains a comparative morphological and ecological study of this flatfish, carried out in Dvina Bay of the White Sea, with 15 tables of morphological data on *P. glacialis* and two related species, *P. flexus* (White Sea) and *P. platessa* (Barents Sea).

**Copy seen:** MH-Z.

**26391. STÅL, CARL, 1833-1878.** Beitrag zur Hemipteren Fauna Sibiriens und des Russischen Nord-Amerika. (Stettiner entomologische Zeitung, 1856. Bd. 19, no. 4-6, p. 175-98, plate) **Title tr.:** A contribution to Hemiptera fauna of Siberia and Russian North America.

Contains a list of 111 species of hemipters inhabiting Siberia (Irkutsk and Kamchatka) and Russian America (Alaska and Sitka (i. e. Baranof Island), with Latin diagnoses of 37 new species; includes at least 25 species native to Kamchatka Peninsula and Alaska.

**Copy seen:** MH-Z.

**STACKELBERG, A. von, see SHTAKEL'BERG, ALEKSANDR ALEKSANDROVICH.**

**STAHLGREN, LEROY H.,** see Bell, L. G., & others. Frostbite in Korean casualties. 1952. No. 20554.

**26392. STALINSKOE ZADANIE VY-POLNENO!** [Leningrad] Lenoblizdat, 1938. 78 p., ports. **Title tr.:** Stalin's assignment carried out.

Pamphlet containing exchange of congratulations, newspaper articles on the topical events and biographies of participants in the Soviet Ice Floe Drifting Expedition North Pole, 1937-38.

**Copy seen:** DLC.

**26393. STAMATI, CONSTANTIN von.** Die Kola-Halbinsel und Ostkarelien. Berlin, Selbstverlag der Publikationsstelle, 1941. 45 p., map. (Schriften der Publikationsstelle für den Dienstgebrauch) *Title tr.:* The Kola Peninsula and eastern Karelia.

Publication for public service use, dealing with the geography and historical development of the area; its population; mineral and power resources; agriculture; communications.

*Appendix* on (1) the Finnish peoples of the Soviet Union and (2) the Komi ASSR. List of 35 non-Russian publications on eastern Karelia and Kola.

*Copy seen:* DLC.

**26394. STANCHINSKIĬ, V. V.** Geograficheskaiâ izmENCHIVOST' i rasprostranenie dubrovnik, *Emberiza aureola* Pall. (Akademiâ nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1928, pub. 1929. t. 29, p. 243-65) *Title tr.:* Geographic variations and distribution of the bunting *Emberiza aureola* Pall.

*Contains* a study of geographical changes of *Emberiza aureola*, a bird widely distributed in northern Russia from Bering Strait to central European Russia, with German and Russian descriptions of *E. aureola kamtschatica* n. subsp. native to Kamchatka Peninsula and descriptive notes on *E. aureola aureola*, distributed in northern Siberia and European Russia; measurements, changes in coloring, plumage, etc.

*Copy seen:* DSI-M; MH-Z.

**26395. STANSBY, MAURICE EARL, 1908-** Opportunities for small business in the fisheries of the Pacific Northwest and Alaska. Chicago, 1945. 6 p. incl. table. (U.S. Fish and Wildlife Service. Fishery leaflet 107) Mimeographed.

Note on post-war changes anticipated; emphasis shifting from canning to freezing and fresh marketing, development of new king crab fishery, and better use of fishery byproducts. Bibliography (7 items). Table shows 16 species of fishes present in Alaska, their approximate abundance by areas, yields, and potential yields.

*Copy seen:* DI.

**STANSFIELD, H.,** see Hoff, H. E., & H. Stansfield. Ventricular fibrillation induced by cold. 1949. No. 22652.

**26396. STANWELL-FLETCHER, THEODORA MORRIS, (COPE), 1906-**

The tundra world. [1st. ed.] Boston, Little, Brown [1952]. 266 p. col. front.

*Contains* a story of a college student's summer life at Churchill sometime in the 1930's, written in a journal style. Local flowers and plants, birds, mammals and other wildlife in various aspects are depicted.

*Copy seen:* DLC.

**STARIK, I. E.,** see Gerling, E. K., & I. E. Starik. Age pyroxenite intrusions. 1942. No. 22080.

**26397. STARK, V. N.** Materialy k izucheniiu klopov roda *Aradus* evropeiskoi taigi (Hemiptera, Aradidae). (Entomologicheskoe obozrenie, 1933. t. 25, no. 1-2, p. 67-82) *Title tr.:* Materials for the study of species of the genus *Aradus* of the European taiga.

*Contains* a study of biology and ecology of small flat bugs of the genus *Aradus* living in the European taiga, including Kola Peninsula and Arkhangel'sk region, with data on their geographic distribution, habitat and preference of certain types of woody plants (see tables). Summary in German.

*Copy seen:* DLC; MH-Z.

**26398. STARK, V. N.** Nauchnye rezultaty Äakutskoi Äekspeditsii Akademii nauk SSSR 1925 i 1926 gg. Materialy k faune koroeodov (Ipidae, Coleoptera) Äakutii. (Akademiâ nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1931, pub. 1932. t. 32, vyp. 4, p. 541-58) *Title tr.:* Scientific results of the Yakut Expedition of the Academy of Sciences U.S.S.R. 1925-26. Materials for the fauna of the bark-boring beetle (Ipidae, Coleoptera) of Yakutia.

*Contains* a systematic list of 47 species of bark-borers (Ipidae) parasitic on various woody plants, based mostly on the study of material collected by the Yakut Expedition of the Academy of Sciences in 1925 and 1926, with localities and data on habitat, also tabulated data (2 tables) on various host plants and the parts of plants affected by these beetles. Summary in German.

*Copy seen:* DLC; MH-Z.

**26399. STAROKADOMSKIĬ, LEONID MIKHAILOVICH, 1875-** Zoologicheskiiä stanitsii transporta Taïmyr v 1913 g. (Akademiâ nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1916, pub. 1917. t. 21, p. xxvii-xlix) *Title tr.:* Zoological stations of the transport Taïmyr in 1913.

Contains a list of 81 stations established (as part of the Arctic Ocean Hydrographic Expedition) by the *Taimyr* in 1913 in Japan, Okhotsk and Bering Seas and in the arctic seas from Bering Strait to the Taymyr Peninsula of Siberia, with the following data for each station: date, time, location, air and sea temperature, bottom, brief list of marine and terrestrial (island and coastal) fauna.

**Copy seen:** MH-Z.

**26400. STARTSEV, G.** Komi-oblastnoi național'nyi muzei. (Sovetskaiâ étnografiâ, 1935. no. 2, p. 180-81) **Title tr.:** The Zyryan region national museum.

Contains description of a museum, founded in 1917, which includes (along with political propaganda) two sections of some ethnological importance: the old life (household utensils, clothing, ornaments, etc.) and occupations (hunting, fishing and reindeer breeding).

**Copy seen:** DLC.

**26401. STARYNKEVICH, I. D.** Formy zaklûcheniâ braka u turetskikh plemen Sibiri i u kochevnikov srednei Azii. (Akademiiâ nauk SSSR. Muzei antropologii i étnografii. Sbornik, 1930. t. 9, p. 215-35) **Title tr.:** Forms of marriage arrangements among the Turcic tribes of Siberia and the nomads of the Central Asia.

Contains numerous references to Yakut marriage customs, all from printed sources (53 papers listed).

**Copy seen:** DLC.

**STARYNKEVICH-BORNEMAN, I. D.,** see Akademiiâ nauk SSSR. Khibinskaiâ gornaiâ stantsiâ. Khibinskaiâ gornaiâ stantsiâ. 1934. No. 20100.

**STARYNKEVICH-BORNEMAN, I. D.,** see also Akademiiâ nauk SSSR. Kol'skaiâ baza. Materialy k geokhimii Khibinskikh tundr. 1935. No. 20101.

**26402. STAUDINGER, OTTO, 1830-1900.** Bemerkungen über Arten der Gattung *Colias*. (Stettiner entomologische Zeitung, 1866. Bd. 27, no. 1-3, p. 44-50) **Title tr.:** Notes on the species of the genus *Colias*.

Contains a general discussion of the lepidopterous genus *Colias* and a list of 15 species, including two from Lapland and Greenland, two from Labrador and one from Hudson Bay region.

**Copy seen:** MH-Z.

**STAUDINGER, OTTO, 1830-1900,** see also Kennel, J. T. Neue Wickler d. palaearctischen Gebietes. 1901. No. 23188.

**STAUDINGER, OTTO, 1830-1900,** see also Wocke, M. F., & O. Staudinger. Reise nach Finnmarken. 1861-62. No. 27468.

**26403. STEBNITSKIĬ, S. N.** Osnovnye foneticheskie razlichia dialektov nymylanskogo (koriaĭskogo) iazyka. (In: Akademiiâ nauk SSSR. Institut étnografii. Pamâti V. G. Bogoraza, 1865-1936, pub. 1937. p. 285-307, tables) **Title tr.:** Basic phonetic differences in dialects of the Nymylan (Koryak) language.

In Koryak eight dialects can be distinguished, their distribution is made on the basis of phonetic features: (1) *e*-dialects and *a*-dialects, (2) *j*-dialects and *t*, *r*-dialects. Then (3) the dialects can be differentiated according to the monophthongization of their diphthongs. The author opposes the *câwôw*-dialect as the most conservative, to that of Aliutorsk as the most progressive, and thinks that perhaps these two are the real dialects of Koryak, the others being but sub-dialects.

**Copy seen:** DLC.

**STEENSBY, HANS PEDER, 1875-1920,** see König, H. Bemerk. japanische Bienenflüssungen. 1933. No. 23346.

**STEENSTRUP, JOHANNES JAPETUS STEENSTRUP, 1813-1897,** see Sarauw, G. F. L. Rentier in Europa. 1913. No. 25835.

**26404. STEERE, WILLIAM CAMPBELL, 1907-** Botanical research in Alaska. (In: Alaskan Science Conference...1950. Selected papers, 1952. p. 103-110)

Contains a brief historical sketch of botanical research in Alaska since that of Steller in 1741; its sponsors, main figures and achievement. Author stresses the lack of integration and coordination in this field and makes several recommendations towards comprehensive co-ordinated program of research. Bibliography (28 items).

**Copy seen:** DAI; DLC.

**26405. STEERE, WILLIAM CAMPBELL, 1907-** Bryophyta of arctic America, III. The rediscovery of *Funaria polaris*, Bryhn. (Bryologist, Mar. 1949. v. 52, no. 1, p. 29-31)

For papers I-II in this series, see *Arctic Bibliography*, No. 16766-16767. This species, originally described 50 years ago, had not since been collected or reported from the North American Arctic till it was collected July 1, 1948 by W. J. Cody on Southampton Island at South Bay, Coral Harbor (64°09' N. 83°18' W.). It is described here in detail. A translation of its original description by N. Bryhn is also given. *Bibliography* (4 items). **Copy seen:** DA.

**26406. STEERE, WILLIAM CAMPBELL, 1907-** . Bryophyta of arctic America, IV. The mosses of Cornwallis Island. (*Bryologist*, Sept. 1951. v. 54, no. 3, p. 181-202)

*Contains* a study based on a collection of 300 moss specimens, from the Dominion Dept. of Agriculture, Ottawa, and three smaller collections from other Canadian sources. Includes sections on the discovery of the island (74°40'-75°35' N. 94°-97°30' W.); earlier studies of its flora; ecological data, and species association. This is followed by a catalog of the mosses of the island comprising some 95 forms belonging to 20 genera; data are offered on earlier work; nomenclature, taxonomy, occurrence, etc. *Bibliography* (25 items). **Copy seen:** DA.

**26407. STEERE, WILLIAM CAMPBELL, 1907-** . Bryophyta of arctic America, V. The rediscovery of *Barbula johansenii*. (*Bryologist*, Dec. 1952. v. 55, no. 4, p. 259-60)

*Contains* a report of a find of this peculiar moss, on cliffs at the southwest end of Chandler Lake (68°12' N. 152°46' W.). The only earlier find of this species was made in 1916 on Victoria Island. Data on the new locality, comparisons with the type specimen, etc. are presented. *Bibliography* (3 items).

**Copy seen:** DA.

**26408. STEERE, WILLIAM CAMPBELL, 1907-** . On the occurrence of *Ricciocarpus natans* in northern Canada. (*Bryologist*, Sept. 1951. v. 54, no. 3, p. 207-208)

*Contains* a report on the occurrence of the liverwort *Ricciocarpus natans* (L.) Corda, in central Yukon Territory and in the Mackenzie District. The species has not hitherto been found north of 60° N.; details on the localities of the finds are given. *Bibliography* (4 items).

**Copy seen:** DA.

**26409. STEFANOVICH, I. P.** Tekhnologiya mekha. Odobreno Upravleniem uchebnymi zavedeniyami Ministerstva legkoj promyshlennosti SSSR v kachestve uchebnika dlia tekhnikumov legkoj promyshlennosti. Moskva-Leningrad, Gosudarstvennoe nauchno-tekhnicheskoe izd-vo legkoj, tekstil'noj i poligraficheskoy promyshlennosti, 1948. 319 p., illus., diagrs. tables. **Title tr.:** Fur technology. Approved by the Administration of Educational Institutions of the Board of Light Industry, as a textbook for light industry technical schools.

A specialized monograph on a largely arctic industry, containing sections on the structure and chemistry of fur skins; the raw materials of the industry, their protection and initial treatment; principles of technological processes and application (soaking, de-fatting, pickling, etc.); dyeing; further processing; finishing. In addition to scattered references to northern animals, the book contains a section on winter fur animals: arctic fox, arctic hare, etc., (p. 66-67), seals, etc. (p. 69-70). Second edition *pub.* 1952 (340 p.) has additional material on the technological advances which took place since the first edition, and several parts re-edited to insure a closer connection between the theoretical and practical aspects of the work.

**Copy seen:** DLC (both editions).

**26410. STEFANSSON, UNNSTEIN.** Hydrographic conditions in the waters north of Iceland, July and August 1949. (International Council for the Study of the Sea. *Annales biologiques*, 1949, *pub.* 1950. v. 6, p. 28-30, diagrs.)

Notes and vertical section diagrams showing the influence of warm Atlantic and East Greenland Polar Current waters on the area north of Iceland.

**Copy seen:** DF; DSI-M.

**26411. STEFANSSON, UNNSTEIN.** Influx of Atlantic water north of Iceland 1948. (International Council for the Study of the Sea. *Annales biologiques*, 1948, *pub.* 1949. v. 5, p. 16-18, diagrs.)

Data graphically shown for first half of July and August at three stations spaced between 13°-24° W.

**Copy seen:** DF; DSI-M.

**26412. STEFANSSON, VILHJALMUR, 1879-** . The diets of explorers. (Military surgeon, July 1944. v. 95, no. 1, p. 1-3)

*Contains* a general account of diets of

arctic travelers, including the author himself. The idea is advanced that a pure meat diet, raw or cooked, and irrespective whether visceral in origin, like liver, kidney, or muscle meat, is the best for survival and for antiscorbutic value. Mixed diets or exclusively white-man's diets are insufficient for survival in the Arctic. Doubts are expressed as to the value of lime juice, as used in the past, and other customary items believed to have antiscorbutic value.

**Copy seen:** DLC.

**26413. STEFANSSON, VILHJALMUR, 1879-** . Gostepriimnafa Arktika. [Izd. 2, perevod A. L. Kardashinskogo i R. A. Braude] Moskva, Gos. izd-vo geogr. lit-ry, 1948. 328 p., illus., maps (1 fold). **Title tr.:** The friendly Arctic. [Second edition, translation by A. L. Kardashinskiĭ and R. A. Braude]

New edition without change, of the abridged translation published in 1935 (see *Arctic Bibliography*, No. 16812) of Stefansson's narrative of the Canadian Arctic Expedition, 1913-1918.

**Copy seen:** DLC.

**26414. STEFANSSON, VILHJALMUR, 1879-** . 20 questions about the Arctic. (Forest and outdoors, Feb. 1949. v. 45, no. 2, p. 14-15, 27, illus. map)

Contains questions posed by Frank Edwards and answers by Stefansson on the development of the North and such obstacles as permafrost, severe climate, lack of transportation and lack of information; need for airports and weather stations; agriculture in the American North; coal oil, railroads, etc.

**Copy seen:** DA.

**STEFANSSON, VILHJALMUR, 1879-** , see also *Arctic*. Stefansson Library. 1952. No. 20261.

**STEFANSSON, VILHJALMUR, 1879-** , see also *Arctic circular*. Stefansson library. 1952. No. 20285.

**STEFANSSON LIBRARY**, see Hess, H. Über Elastizitäts-Konstanten Eises (Eng. trans.) 1950. No. 22603.

**STEGMANN, B.**, see Shtegman, B. K. Paläarktischen Merlinfalken. 1929. No. 26162.

**26415. STEIN, HAROLD JACOB, 1913-** , and others. Hormonal alterations in men exposed to heat and cold stress. (Journal of clinical endocrinology, June

1949. v. 9, p. 529-47, tables, diagrs.) **Other authors:** R. A. Bader, J. W. Eliot, and D. E. Bass.

"Evidence indicative of a decrease in circulating eosinophils during environmental and exercise stress is presented and the relation of this observation to the secretion of the carbohydrate hormone of the adrenal cortex is discussed."

**Bibliography** (51 items).

**Copy seen:** DLC.

**26416. STEIN, HAROLD JACOB, 1913-** , and others. Physiological reactions to cold and their effects on the retention of acclimatization to heat. (Journal of applied physiology, Feb. 1949. v. 1, p. 575-86, diagrs.) **Other authors:** J. W. Eliot and R. A. Bader.

Report on a study "to investigate the mechanism of acclimatization to cold and to ascertain the loss of acclimatization in heat-acclimatized men subjected to prolonged cold exposures, utilizing cardio-vascular and metabolic indices", with discussion, and a bibliography (28 items).

**Copy seen:** DLC.

**STEIN, HAROLD JACOB, 1913-** , see also Bader, R. A., & others. Hormonal alterations heat & cold stress. 1948. No. 20395.

**STEIN, HAROLD JACOB, 1913-** , see also Eliot, J. W., & others. Cross-acclimatization to heat & cold. 1948. No. 21639.

**26417. STEIN, IRWIN D.** Physical medicine and cold injury of the limbs. (Archives of physical medicine, June 1947. v. 28, p. 348-51)

Contains a general account dealing with types of cold injury; pathologic physiology and treatment. The author recommends as "ideal treatment", maintenance of the affected limb in a cool room 65°-75° F. during the acute phase, followed by exercise, and surgery in serious cases. Coping with excessive sweating is also discussed.

**Copy seen:** DLC.

**26418. STEINER, F. B.** Skinboats and the Yakut 'xayik'. (Ethnos, Stockholm, 1934. v. 4, no. 3-4, p. 177-83)

Contains names and data on forms of the Yakut boats.

**Copy seen:** DSI-M; InU.

**26419. STEINERT, WALTHER.** Die Wirkung des Landschaftszwanges auf die materielle Kultur der Eskimo. Diss.

Hamburg, 1935. 4 p. l., 62 p., illus., map. **Title tr.:** The effect of environment on the material culture of the Eskimo.

Ph.D. thesis which attempts to show how greatly the mode of life and forms of production depend upon the natural environment, arctic conditions forcing natives of the region to evolve cultural attributes so effective for survival that their adoption by the white man has lessened the hazard of his travel in the North. Five subjects were investigated: dwellings, clothing, tools and implements, getting of food, and preparation of food. Nine groups of Eskimos were taken into consideration on those five points: the Central, Caribou, East and West Greenland, Polar, Labrador, northwestern Alaskan, Mackenzie, western Alaskan Eskimos and the Kodiak Islanders. All are of the same Eskimo type, although their ergology shows much variation, due to different environment, as is apparent from the different types of dwellings (drawings on p. 59). Seemingly irrational behavior is discussed, e. g. the Caribou Eskimos' not hunting seal nor using the train-oil lamp) and explained as due to religious beliefs based on attachment to the (inland) landscape. Boas' theories are frequently criticized and rejected by the author.

**Copy seen:** CaMAI.

**26420. STEINITZ, WOLFGANG, 1905-** . Ostjakische Chrestomathie; mit grammatikalischem Abriss und Wörterverzeichnis. Stockholm, Ungarisches Institut an der Universität Stockholm und Finnisch-Ugrisches Seminar an der Universität Uppsala, 1942. 102 p. mimeographed. **Title tr.:** Ostyak language chrestomathy (or reader), with a grammatical sketch and a vocabulary.

**Contains** introduction in German, giving general information on the Ostyaks, their dialects, history of linguistic research in the Ostyak language and a bibliography. Then follows a grammatical sketch of the Sherkaly dialect (used on the middle Ob') and texts of eight legends, three tales, 27 riddles, one prayer, and two bear festival songs. A tale in the Synja dialect is added also, two texts exemplifying an attempt to base the Ostyak literary language on the Obdorsk dialect.

**Copy seen:** InU.

**26421. STEINITZ, WOLFGANG, 1905-** . Ostjakische Volksdichtung und

Erzählungen. 2. Teil [sec. 1]. Stockholm, 1941. 208 p. **Title tr.:** Ostyak folk poetry and narratives. pt. 2 [sec. 1]

**Contains** comments and explanations of the texts which were published in the first part of this work (*Grammatische Einleitungen und Texte mit Übersetzungen*, Tartu, 1939, xi, 460 p.): essay on the Ostyakian and Vogulian folk poetry (the meter, parallelism, etymological figures, poetical formulas, use of possessive suffixes -en, etc.), a note on A. Regulys' transcription of Ostyak texts, and commentary on the texts in Synja and Sherkal dialects published in the first volume (linguistic and folkloristic explanations, description of customs connected with these narratives and songs, etc.) Steinitz frequently quotes from, and gives critical remarks on works of his predecessors: A. Reguly, J. Pápay, S. Patkanov, K. F. Karjalainen, B. Munkácsi, and others. Author's foreword (dated July 1, 1941 from Stockholm, Universität ungarisches Institut) states that this, the first section of pt. 2, is to be followed by a second section giving commentary on the Chermislian texts in pt. 1.

**Copy seen:** NNC.

**26422. STEINITZ, WOLFGANG, 1905-** . Totemismus bei den Ostjaken in Sibirien. (Ethnos, Stockholm, 1938, v. 3, no. 4-5, p. 125-40, 3 illus.) **Title tr.:** Totemism among the Ostyaks in Siberia.

**Contains** note of Ostyak population, numbering about 22,600 in 1926, living mainly in the Ob' basin and eastward to the upper Taz; discussion of their genuine, native personal names, social organization and totemism. They (and Voguls) are shown to have a real totemistic complex.

**Copy seen:** DSI-M; InU.

**STEINSKOG, DAGFINN**, see Bathen, F. Hvardan Norsk Polarklubb. 1949. No. 20500.

**26423. STEJNEGER, LEONHARD HESS, 1851-1943.** Fremdeles om underslaegten *Lanius* og den norske arter. Svar til Hr. Robert Collett. (Archiv for matematik og naturvidenskab, 1879. Bd. 4, p. 262-70) **Title tr.:** More on the subgenus *Lanius* and its Norwegian species. A reply to Mr. Robert Collett.

**Contains** in reply to Collett's *Nogle bemaerkninger*, 1879, q. v., data on some northern Norwegian species of this bird.

**Copy seen:** MH-Z.

**26424. STEJNEGER, LEONHARD HESS, 1851-1943.** Ornithologisches aus Norwegen. (Journal für Ornithologie, 1873. Bd. 21, no. 123, p. 304-307) **Title tr.:** Contributions to the ornithology of Norway.

Contains a list of 33 species of birds, native to Helgeland, northern Norway (65°-67° N.) based chiefly on the manuscript (1841) of J. Heltzen in the library of Bergen Museum; with some notes on habitat and local distribution (Ranenfjord). **Copy seen:** MH-Z.

**26425. STEJNEGER, LEONHARD HESS, 1851-1943.** Underslaegten *Lanius* med særligt hensyn paa dens norske arter. (Archiv for matematik og naturvidenskab, 1878. Bd. 3, p. 323-39) **Title tr.:** Subgenus *Lanius* with special reference to its Norwegian species.

Contains a critical study of the Linnean avian subgenus *Lanius* with special attention given to the identity of Norwegian species; 13 species considered and five studied in detail; includes *L. major*, native to northern Scandinavia, European Russia and Siberia, and *L. excubitor* from Swedish Lapland and Finnmark, Norway. **Copy seen:** MH-Z.

**STELLER, GEORG WILHELM, 1709-1746,** see Büchner, E. Abbildungen d. nordischen Seekuh. 1891. No. 21004.

**26426. STENIJ, S. E.** Harmonic analysis and prediction of the tides at Linnamari. Helsinki, 1937. 7 p., tables. (Fennia, 63:4)

Based mainly on records for 1931 and 1932 at this port (69°38'5" N. 31°22' E.) in the Gulf of Petsamo where an automatic tide gauge has been in function since Oct. 1930.

**Copy seen:** DLC.

**26427. STENIUS, GUNNAR.** Paläarktische Arten aus der Gruppe *Scymnus* (*Nephus*) *bipunctatus* Kugel. (Col. Coccinellidae). (Notulae entomologicae, 1952. v. 32, no. 4, p. 147-55, illus.) **Title tr.:** Palaearctic species of the group *Scymnus* (*Nephus*) *bipunctatus* Kugel. (Col. Coccinellidae).

Contains a critical study of geographic variation of the beetles of the group *Scymnus bipunctatus*, with a table for the determination of the species of the group. Six species are described, three as new to science, including *S. bipunctatus* and *S. bisignatus* occurring throughout

Europe from the Arctic Circle to the Mediterranean. **Copy seen:** MH-Z.

**26428. STENIUS, GUNNAR.** *Philonthus setosus* J. Sahlb. och *Ph. subvirescens* Thoms. ännu en gång. (Notulae entomologicae, 1935. v. 15, no. 1-2, p. 35-37) **Title tr.:** Once more on *Philonthus setosus* J. Sahlb. and *Ph. subvirescens* Thoms.

Contains taxonomic notes on two beetles, *Philonthus setosus* known from Russian Karelia and Yakutia, and *P. subvirescens* native to Finnish Lapland, Kola Peninsula and Siberia, and comparison with some other relative species; supplementary to the author's *Über zwei Philonthus-Arten*, 1923, q. v. Summary in German.

**Copy seen:** DLC; MH-Z.

**26429. STENIUS, GUNNAR.** Über zwei *Philonthus*-Arten: *Ph. setosus* J. Sahlb. und *Ph. subvirescens* Thoms. (Col., Staph.) (Notulae entomologicae, 1923. v. 3, no. 2, p. 44-45). **Title tr.:** On two *Philonthus* species: *Ph. setosus* J. Sahlb. and *Ph. subvirescens* Thoms.

Contains a table for the determination of the species of coleopterous genus *Philonthus* and critical notes on *P. setosus* known from Russian Karelia and Yakutia (Lena River) and *P. subvirescens* collected in Kola Peninsula, Finnish Lapland and in Siberia (Ob' and Lena River regions).

**Copy seen:** DLC; MH-Z.

**26430. STENROOS, K. E.** Thierphänologische Beobachtungen in Finland 1895. (Bidrag till kännedom af Finlands natur och folk, 1900. Häfte 58, p. 47-72 (tables)) **Title tr.:** Animal phenological observations in Finland, 1895.

The observations reported are gathered from 79 stations, eight of them above the Arctic Circle, and deal with migration, nesting, reproduction, etc., of common birds, fishes, amphibians and insects (area and plan are the same as those of observations on plant phenology by A. O. Kairamo, q. v.). For subsequent years' observations see under: K. M. Levander, and M. Reuter.

**Copy seen:** DLC.

**26431. STEPANOV, D. L.** Brakhiopody mshankovykh izvestniakov Kolvinskogo raiona (Severnii Ural). Chast' I. Strophomenacea. 63 p., 4 plates. (Leningrad. Neftanof geologo-razvedochnyi institut. Trudy, ser. A, 1934. vyp. 37) **Title tr.:**

Brachiopoda of the bryozoan limestones of the Kol'va River region (Northern Urals). Part I. Strophomenacea.

*Contains* a study of fossil brachiopods of the area around the middle course of the Kol'va (tributary to the Kama River, ca. 61° N. 57° E.) from the collection made by G. A. Dutkevitch in 1930. In this, the first part, only the group of Strophomenacea is described in detail, including some 35 forms, four of them new species. An introductory section gives a description of the area and the conditions of the formation, an outline of earlier work on the group, etc.

*Copy seen:* DLC.

**26432. STEPANOV, D. L.** Brachiopody mshankovykh izvestniakov Kolvinskogo raióna (Sev. Ural). Chast' 2. Leningrad, Izd-vo Gos. Leningr. univ-ta, 1937. 101 p., illus., plates 1-12. *Title tr.:* Brachiopoda of the bryozoan limestones of the Kol'va River region (Northern Urals). Pt. 2.

*Contains* descriptions of some 50 species of fossil brachiopods from the Kol'va River region of the Northern Urals, with synonyms, diagnoses of five new species and four new varieties, dimensions, critical notes and data on local distribution. In this part, a synopsis is given of all species investigated (in pt. 1-2), a general survey of the fauna, a discussion of the geological age of the limestones (latest period of the Upper Carboniferous), and a bibliography (102 items). Summary in English.

*Copy seen:* MH-Z.

**26433. STEPANOV, N. N.** K istorii osvoboditel'noi bor'by narodnostei severovostoka Sibiri v XVII v. (*In:* Akademiia nauk SSSR. Institut étnografii. Pamiaty V. G. Bogoraza, 1865-1936. 1937, p. 213-26, illus.) *Title tr.:* A contribution to the history of the struggle for liberation of the peoples of northeastern Siberia in the 17th century.

Though Siberia was officially conquered in 1581, its peoples struggled against their Russian conquerors during the entire 17th and 18th centuries. This author controverts view expressed by N. Kozmin in 1931, that Siberia was actually conquered not by weapons, but by the merchandise of Moscow. Stepanov shows that the natives of Siberia did not need Russian merchandise: they had their own natural economy, and got what else they needed from Mongolia, Bukhara and China. The merchandise of Moscow had

to conquer its markets with weapons and the conquest was possible only because of Russians' monopolistic use of fire-arms.

*Copy seen:* DLC.

**26434. STEPANOVA, M. V.** Dva éskimoskikh poiaasa iz sobraniia MAE (Akademiia nauk SSSR. Muzei antropologii i étnografii. Sbornik, 1949, t. 11, p. 62-72, 2 illus.) *Title tr.:* Two Eskimo girdles from the collection of Muzei antropologii i étnografii.

*Contains* description of two girdles from western Alaska: one brought home by I. G. Voznesenskii in 1843 from the Norton Sound region, the other acquired by the L. Zagoskin expedition of 1842-44. Author also reviews the literature on the Eskimo girdle, which is not merely an article of apparel worn by men and women alike, but also a kind of fetish thoroughly elaborated and ornamented.

*Copy seen:* DLC.

**26435. STEPHENS, FRED H.** Yukon's greatest post-war gold output. (Canadian mining journal, Feb. 1950. v. 71, no. 2, p. 80-81, illus.)

Résumé of operations and production, 1949.

*Copy seen:* DGS.

**26436. STEVENSON, ALEX.** The 1950 eastern Arctic patrol. (Arctic circular, Dec. 1950. v. 3, p. 70-72)

Account of the maiden voyage of the Canadian Dept. of Transport vessel *C. D. Howe* to provision northern stations and carry out activities for six departments: Resources and Development, National Health and Welfare, Transport, Mines and Technical Surveys, Justice, and Post Office.

*Copy seen:* CaMAI; DLC.

**26437. STEVENSON, ALEX.** The 1951 Eastern Arctic Patrol. (Arctic circular, Feb. 1952. v. 5, no. 2, p. 19-21)

*Contains* report of the 29th annual Eastern Arctic Patrol, carried out by the Canadian Dept. of Transport vessel *C. D. Howe*, based mainly on the captain's log.

Outlines of the itinerary (Cape Harrison on Labrador, Chimo, Churchill on Hudson Bay, the Baffin Island posts, Dundas Harbour on Devon Island, where a R.C.M.P. post was closed and Craig Harbour on Ellesmere where the post was reopened). The activities by personnel from several government agencies included medical and dental work at each settlement and an eye survey; hydro-

graphic work; ice reconnaissance and air photography of settlements by helicopter; delivery of mail and supplies to the posts; promotion of the Canadian Handicrafts Guild's Eskimo art and craft program (collecting and instruction, etc.); administrative work at the posts and stations; rescue of the disabled Catholic mission ship *Regina Polaris*.

**Copy seen:** DLC.

**26438. STEWART, BENJAMIN DUANE, Jr., 1911-** . Alaska's Operation Snowball keeps Thompson Pass on Richardson Highway open throughout the winter. (Pacific builder and engineer, Apr. 1950. v. 56, no. 4, p. 77-79, incl. illus.)

"A description is presented of the machinery, methods and organization adopted in keeping an Alaskan highway open during the winter of 1949/50. The formation of ice on the highway from seepage created a special problem. Such seepages were controlled by erecting along the road shoulders, a fence of canvas strung on poles frozen into the ice. The water freezes on reaching the fence and gradually forms an embankment. Excessive ice formation as occurs near culverts is treated by thawing the culverts with small-diameter steam pipes. The steam is generated in portable heaters mounted on lorries. Narrow drainage trenches across the road are recommended when temperatures are extremely low. The difficulties of operating motor vehicles at very low temperatures are enumerated."—SIPRE. **Copy seen:** DLC.

**STEWART, ILEEN E.,** see Wardle, R. A., & others. Lühe's "Diphyllodium". 1947. No. 27264.

**26439. STEWART, JAMES SMITH, 1881-** . Norman Wells oil field, Northwest Territories, Canada. (In: American Association of Petroleum Geologists. Structure of typical American oil fields; a symposium, Tulsa, Okla., 1929-48. v. 3, p. 86-109, 5 maps, diags.)

History of development since 1919; notes on transportation routes and the Canol Project during World War II; discussion of stratigraphy and structure of the Mackenzie River regions (65°17' N. 126°51' W.) and the oil reserve of reef limestone in shales of Upper Devonian age, encountered at depths of 1,050-1,950 feet; remarks on production and recoverable oil reserves.

**Copy seen:** DGS; DLC.

**STEWART, MILROY N.,** see Geiger, R. Climate near the ground. 1950. No. 22050.

**26440. STICHEL, HANS.** Ein Beitrag zur nordischen Schmetterlingsfauna und anknüpfende Bemerkungen. (Berliner entomologische Zeitschrift, 1908. Bd. 53, Heft 1, p. 61-124, plate 3) **Title tr.:** A contribution to the fauna of northern butterflies with accompanying notes.

Contains a systematic list of 63 species and many forms of northern butterflies and moths, based chiefly on a collection of H. Rangnow and his son in the Gällivare region of Lule Lappmark in 1907, and on some other sources; includes descriptions, critical notes, keys and data on Scandinavian and total distribution. See also the author's *Zweiter Beitrag*, 1911. **Copy seen:** MH-Z.

**26441. STICHEL, HANS.** Kritische Sichtung der Variationsstufen von *Pieris napi* L. im palaearktischen Gebiet (Lep. Rhop.). (Berliner entomologische Zeitschrift, 1910, pub. 1911. Bd. 55, Heft 3-4, p. 233-51) **Title tr.:** A critical revision of variation forms of *Pieris napi* L. in the palaearctic region (Lep. Rhop.)

Contains a critical revision of variation forms of a very polymorphous species of cabbage butterflies *Pieris napi*, described in some earlier papers of the author (see his *Beitrag z. nord. Schmetterlingsfauna*, 1908), and in the works of other entomologists, including f. *bryoniae* native to northern Scandinavia and U.S.S.R., and f. *frigida* (*kamtschadalis*) from the Kamchatka Peninsula. **Copy seen:** MH-Z.

**26442. STICHEL, HANS.** Zweiter Beitrag zur nordischen Schmetterlingsfauna und anknüpfende Bemerkungen. (Berliner entomologische Zeitschrift, 1911. Bd. 56, p. 33-104, 273, plate 3) **Title tr.:** Second contribution to the northern butterfly fauna with supplementary notes.

Contains a critical revision of 102 species and varieties of butterflies collected by H. Rangnow in 1908, during his second trip to the Gällivare region in Lule Lappmark (many of which were described by the author in his *Ein Beitrag zur nordischen Schmetterlingsfauna*, 1908, q. v.), with additional data and descriptions of newly found species and forms. *Arctica festiva lemniscata* subsp. nov. is new to science. Many species native to northern parts of Fennoscandia and European Russia and

Siberia are included. Bibliography (131 items). A few corrections to this work are added (*Berichtigungen zur zweiten Beitrag*) on p. 273.

**Copy seen:** DLC; MH-Z.

**26443. STIRRETT, GEORGE M.** Rough-legged hawk migration in James Bay area. (Canadian field-naturalist, May-June 1952. v. 66, p. 87)

*Contains* a brief note on a northeast-southwest flight, observed for two days at Hannah Bay, Ontario, Oct. 1949. Suggests that the hawks may migrate from Ungava breeding grounds.

**Copy seen:** DGS.

**26444. STJERNVALL, HUGO J.** Nordöstra Kuusamo och sydöstra Kuolajärvi. En blick på förhållandena derstädes och i öfriga delar af Lappmarken. (Geografiska föreningen i Finland. Meddelanden, 1892-1893. Bd. 1, p. 211-49, fold. map) **Title tr.:** Northeastern Kuusamo and southeastern Kuolajärvi. A survey of conditions in settled and open parts of Lappmark.

*Contains* account of the surface of the region 66°20'-67° N. 29°-31° E., in the Russo-Finnish frontier area, its soils, drainage, geology and petrology, forests, common wild animals. The population is described, its occupations, housing, dress and food, racial characteristics, religion, etc. Author notes evidences (place names, etc.) of Lappish people formerly in this region. Map 1:40,000, on plate 17 at end, shows region. Summary in German.

**Copy seen:** DLC.

**26445. STOCKMANN, STEN.** Ett hos oss föga känt djurgeografiskt arbete. (Notulae entomologicae, 1941, pub. 1942. v. 21, no. 4, p. 130-38, fold. map) **Title tr.:** A little-known zoogeographic work.

*Contains* a summary of the work of A. P. Semenov-Tjan-Shanskii, *Predely i zoogeog. podrazdeleniia Palearkticheskoi oblasti*, 1935, q. v., including European-Siberian or boreal region with arctic (zona arctica) and taiga (zona taigae s. silvarum borealium) zones, and the map showing the extent of these zones.

**Copy seen:** DLC; MH-Z.

**26446. STOCKMANN, W. B.** Characteristics of the spreading of Atlantic waters in the polar basin. (Akademii nauk SSSR. Comptes rendus (Doklady), 1945. nouv. ser., v. 48, no. 1, p. 18-29, diagrs.)

*Confirmation* of a theory proposed earlier by the author regarding the move-

ment of Atlantic waters into the arctic seas and polar basin. **Copy seen:** DLC.

**26447. STOCKS, THEODORE.** Leonid Breitfuss. (Petermanns geographische Mitteilungen, 1950. Jahrg. 94, p. 216-17)

*Obituary* (in German) of this Russian marine biologist (1864-1950) who contributed so largely to the exploration and history of research in the Eurasian Arctic.

**Copy seen:** DGS.

**STÖA, KARL FR.,** *see* Boë, F., & others. Adrenocorticotrophic hormone in whale. 1951. No. 20757.

**26448. STOECKELER, E. G.** Investigation of military construction in arctic and subarctic regions. Trees of interior Alaska, their significance as soil and permafrost indicators. Corps of Engineers, St. Paul District, 1952. 25 p., incl. illus.

"Identification of the eight major tree species which attain tree size in the permafrost zone of Alaska is facilitated by actual photographs illustrating tree form, branching habits, bark, leaves, and fruit. A low altitude oblique and a stereopair of each species are included, together with a description of the tree's salient features and airphoto pattern." A brief discussion of the relative value of each of the eight species as an indicator of soil texture, ground water, and permafrost conditions is included."—Author's abstract.

**Copy seen:** DPR.

**26449. STØP-BOWITZ, CARL.** Les Flabelligériens Norvégiens. (Bergen, Norway, Museum. Aarbok; naturvidenskabelig rekke, 1946-47, pub. 1948. no. 2, p. 1-59, illus., text maps) **Title tr.:** Norwegian Flabelligeridae.

*Contains* a critical revision of the marine worms (Annelida polychaeta) of the family Flabelligeridae, inhabiting Norwegian waters and spreading to Svalbard; with historical notes, keys to the genera and species and an enumeration of 11 species, synonymy, literature citations, localities, data on distribution and a bibliography (115 items); includes *Pherusa arctica* n. sp. (Narvik).

**Copy seen:** MH-Z.

**26450. STONE, KIRK HASKIN.** 1914- . Alaskan group settlement: The Matanuska Valley colony. Washington, U. S. Dept. of the Interior, Bureau of Land Management, 1950. 3 p. l., viii p., 1 l., 95, 1 p. irregular (many numbered and some unnumbered leaves) 23 plates (incl. 14 maps)

A study, prepared primarily for the (Departments of) "Interior-Agriculture Committee on Group Settlement in Alaska . . . covering land use capabilities, farm management and production, and marketing."

Contains chapters on Matanuska valley as a whole, plans of 1934-35, administration of the colony, land, settlers, financing, transportation lines, farm building program, community facilities, clearing and cropping land. Selected references: Alaskan bibliographies, published and unpublished references, aerial photographs, and maps (in all 92 items).

**Copy seen:** DAI; DLC (microfilm).

**26451. STONE, KIRK HASKIN, 1914-** . Alaskan problems and potentials. (Journal of geography, May 1951. v. 50, p. 177-89, map, diagr.)

Brief, general statements of "problematic and potential phases of . . . location, population, agriculture, industry, recreation, statehood, and ignorance" of Alaska on the part of most Americans.

**Copy seen:** DGS.

**26452. STONE, KIRK HASKIN, 1914-** . Land tenure and sequent occupance in the Matanuska valley, Alaska. [Abstract]. (Association of American Geographers. Annals, 1942. v. 32, p. 138-39)

Brief description of types of land parcels in the valley, the length of time occupied indicating in general the character of the land.

**Copy seen:** DGS; DLC.

**26453. STONE, KIRK HASKIN, 1914-** . Populating Alaska. (Geographical review, July 1952. v. 42, p. 385-404, maps, diagrs., tables)

Contains an analysis of the population according to numerical, racial, occupational and social criteria, and of its changes and shifts. Following remarks on general population changes, and the Russian-English (pre-1867) period, the American period is treated in detail: 1867-94; 1895-1914; 1915-1934, 1935-present. Internal (largely economic) as well as external factors responsible for population changes are analyzed in each subsection.

**Copy seen:** DLC.

**26454. STONE, KIRK HASKIN, 1914-** . Some geographic bases for planning new Alaskan settlement. (In: Alaskan Science Conference . . . 1950. Selected papers, 1952. p. 136-50, 6 maps)

Contains a study of geographic and cultural facts and factors on which planning for permanent settlement could be based. An historical survey and analysis is made of Russian (1740-1830) and Russian-English (1830-1867) settlement, with conclusions (among others) that the present coastal population pattern was established before the Alaska Purchase, and that new settlement may be conceived as permanent on a basis other than agricultural. Further necessary research is indicated.

**Copy seen:** DAI; DLC.

**26455. STORÅ, RAGNAR.** [För faunan nya nematocerer]. (Notulae entomologicae, 1935. v. 15, no. 4, p. 111-13) **Title tr.:** [Nematocera new to the fauna of Finland.]

Contains (in this paper without a formal title), a list of 14 nematocerans new to the fauna of Finland, including 2 species found in Kuusamo region, one in Kuusamo and Petsamo, and one in Petsamo.

**Copy seen:** DLC; MH-Z.

**26456. STORÅ, RAGNAR.** [För faunan nya nematocerer.] (Notulae entomologicae, 1936. v. 16, no. 4, p. 124-25) **Title tr.:** [Nematocerans new to the fauna of Finland.]

Contains a list (without a formal title) of ten nematocerans new to the fauna of Finland, including brief descriptive notes on *Chironomus luctuosus* and *C. mendax* n. spp. found by R. Kruger in Kuusamo, and records six other species in Kuusamo and one in "Lapponia."

**Copy seen:** DLC; MH-Z.

**26457. STORÅ, RAGNAR.** Mitteilungen über die Nematoceren Finlands II. (Notulae entomologicae, 1939. v. 19, no. 1-2, p. 16-30, illus.) **Title tr.:** Notes on Nematocera of Finland, II.

Contains a systematic list of 54 species of midges occurring in Finland, including descriptions of *Cricotopus bilobatus* n. sp., native to Karesuando, Swedish Lapland and Kola Peninsula; *Psectrocladius fenicicus* n. sp.; *Chironomus* (*Cryptochironimus*: *Harnischia*) *viridulus* var. *Krogerusi* n. var., and *Tanytarsus* (s. str.) *heusdensis* var. *kuusamoensis* n. var. Data are given on distribution, biology and ecology of 15 other species from Kuusamo region and Finnish Lapland. This is a continuation of the author's *Mitteilungen*, 1937 (see *Arctic Bibliography* No. 17068).

**Copy seen:** DLC; MH-Z.

**26458. STRAND, ANDREAS, 1895-** . *Agathidium bicolor* J. Sahlb. (Norsk entomologisk tidsskrift, 1937. Bd. 5, hefte 1, p. 38-40)

*Contains* a comparative study of two closely related species of beetles, *Agathidium badium* native to southern Norway, and *A. bicolor* spreading up to 69°40' N. (Målselv).

**Copy seen:** DA; MH-Z.

**26459. STRAND, ANDREAS, 1895-** . *Agathidium pallidum* Gyll. (Col. Liodidae) als gute Art. (Norsk entomologisk tidsskrift, 1938. Bd. 5, hefte 2, p. 82-83, illus.) **Title tr.:** *Agathidium pallidum* Gyll. (Col. Liodidae) good species.

*Contains* a taxonomic discussion of identity of a beetle, *Agathidium pallidum*, described by Gyllenhiel but reduced to a synonym by W. Hellén. The author studied several specimens of this beetle from Målselv, northern Norway, and recognized it as a valid species.

**Copy seen:** MH-Z.

**26460. STRAND, ANDREAS, 1895-** . Bemerkninger vedkommende koleopterfaunaen i Rana. (Norsk entomologisk tidsskrift, 1938. Bd. 5, hefte 2, p. 83-86) **Title tr.:** Remarks concerning coleopterous fauna of Rana.

*Contains* general notes on coleopterous fauna of the Rana region, in northern Nordland, a list of 19 beetles having a tendency to spread northward from Trøndelag and another list of 43 species living in Rana region but missing in Trøndelag.

**Copy seen:** MH-Z.

**26461. STRAND, ANDREAS, 1895-** . Bemerkungen über nordische *Corticaria* und *Corticarina*-Arten, nebst Beschreibung von zwei neuen Arten. (Norsk entomologisk tidsskrift, 1937. Bd. 5, hefte 1, p. 7-33, illus.) **Title tr.:** Notes on northern species of *Corticaria* and *Corticarina* with descriptions of two new species.

*Contains* a critical revision of 21 species of *Corticaria* and seven of *Corticarina*, almost all of them native to northern regions of Norway; *Corticaria munsteri*, *C. spinulosa* and *Corticarina obfusculata* described as new to science; list of localities is given for each species.

**Copy seen:** DA; MH-Z.

**26462. STRAND, ANDREAS, 1895-** . Bidrag til kjendskapet til Norges Carabusfauna. (Norsk entomologisk tidsskrift, 1928, pub. 1929. Bd. 2, hefte 5,

p. 255-59) **Title tr.:** A contribution to the knowledge of *Carabus* fauna on Norway.

*Contains* critical notes on the treatment of Norwegian species of ground beetles in two works of P. Born, *Zoogeographisch-carabologische Studien*, 1908, and *Die Carabenfauna Norwegens*, 1926, q. v.; deals with the distribution of *Carabus problematicus*, in northern Norway.

**Copy seen:** DA; MH-Z.

**26463. STRAND, ANDREAS, 1895-** . Coleopterologische Bemerkungen auf Grund der Typensammlungen in Lund. (Opuscula entomologica, 1937. Bd. 2, häft. 3, p. 110-12) **Title tr.:** Coleopterological notes on the basis of the collection of the types in Lund.

*Contains* critical notes on two coleopters, on the basis of the study of type specimens deposited at Entomological Museum at Lund; one of them is *Quedius fellmani*, described by J. V. Zetterstedt (in his *Insecta lapponica*, 1840, p. 62, q. v.) from Swedish Lapland and found by the author in northern regions of Norway.

**Copy seen:** DA; MH-Z.

**26464. STRAND, ANDREAS, 1895-** . De fennoskandiske former av *Carabus problematicus* Hbst. (Col.). (Norsk entomologisk tidsskrift, 1935. Bd. 4, hefte 1-2, p. 56-74, text map) **Title tr.:** Fennoscandian forms of *Carabus problematicus* Hbst. (Col.).

*Contains* a taxonomic and zoogeographic study of a ground beetle, *Carabus problematicus* and its three varieties, one of which *C. p. strandi* is native to northern Norway, Swedish and Finnish Lapland, and Kola Peninsula; list of localities is given for each variety.

**Copy seen:** DA; MH-Z.

**26465. STRAND, ANDREAS, 1895-** . Drei neue Lathridien (Col.) aus Fennoscandien. (Norsk entomologisk tidsskrift, 1940. Bd. 5, hefte 4, p. 178-80, illus.) **Title tr.:** Three new Lathridiae (Col.) from Fennoscandia.

*Contains* diagnoses of three new beetles of the family Lathridiidae, including *Corticaria obsoleta* n. sp. occurring in Kittilä, Finnish Lapland.

**Copy seen:** MH-Z.

**26466. STRAND, ANDREAS, 1895-** . Inndeling av Norge til bruk ved faunistiske oppgaver. (Norsk entomologisk tidsskrift, 1943. Bd. 6, hefte 4-5, p. 208-224, text map) **Title tr.:** Subdivision of Norway into faunistic regions.

Contains a scheme of subdivision of Norway into 18 biogeographic regions in respect to the fauna, with a numbered list of small local districts in each of main regions and another alphabetic list of districts with symbols (of main regions) and numbers. This scheme was worked out by the author to replace an earlier subdivision, introduced in 1924 by K. Dahl, J. Lid and T. G. Münster, and was approved at the meeting of the Norwegian Entomological Society, May 6, 1942. Summary in French, p. 213.

**Copy seen:** MH-Z.

**26467. STRAND, ANDREAS, 1895- .** Koleopterologiske bidrag I-IV. (Norsk entomologisk tidsskrift, 1932, Bd. 3, hefte 1-2, p. 97-100; (II) 1937, Bd. 5, hefte 1, p. 24-28; (III) 1945, Bd. 7, hefte 3-4, p. 122-33, illus.; (IV) 1946, Bd. 7, hefte 5, p. 175-84)

Contains critical notes on about 125 Norwegian species of beetles and data on their distribution; includes about 20 species native to northern Norway and Swedish and Finnish Lapland.

**Copy seen:** MH-Z.

**26468. STRAND, ANDREAS, 1895- .** and H. K. HANSEN. Målselvns Koleoptera. (Norsk entomologisk tidsskrift, 1932. Bd. 3, hefte 1-2, p. 17-71) **Title tr.:** Coleoptera of Målselv.

Contains a study of coleopterous fauna of Målselv in northern Norway, carried out in the summers of 1928-30; with list of typical forms for various habitats (banks of water basin, marshes, wet vegetation, etc.); and a systematic list of 786 species with dates, localities, brief data on habitat and a table with data on distribution of species in families. For additions and corrections see A. Strand, *Rettelser til "Målselvns Koleoptera"*, 1936.

**Copy seen:** DA; MH-Z.

**26469. STRAND, ANDREAS, 1895- .** Eine neue *Dorcatoma*-Art (Col. Anobiidae) aus Norwegen. (Norsk entomologisk tidsskrift, 1938. Bd. 5, hefte 2, p. 80-82, illus.) **Title tr.:** A new *Dorcatoma* species (Col. Anobiidae) from Norway.

Contains a diagnosis of a new beetle of the family Anobiidae, *Dorcatoma robusta* n. sp. captured by the author in Rundhaug, Målselv (69° N. 19° E.) on June 13, 1937, and a comparison with *D. dresdensis*, native to the same region.

**Copy seen:** MH-Z.

**26470. STRAND, ANDREAS, 1895- .** Neue paläarktische Arten der Gattung *Gyrophaena* Mannh. (Col. Staph.). (Norsk entomologisk tidsskrift, 1938, pub. 1939. Bd. 5, hefte 3, p. 108-111, illus.) **Title tr.:** New palaearctic species of the genus *Gyrophaena* Mannh.

Contains descriptions of five new rove beetles of the genus *Gyrophaena* from various European regions, including *G. pseudonana* n. sp. found in Rundhaug, Målselv, northern Norway, in 1937.

**Copy seen:** MH-Z.

**26471. STRAND, ANDREAS, 1895- .** Die nordischen Arten der Gattung *Hydnobius* Schn. (Col. Liod.). (Norsk entomologisk tidsskrift, 1944, pub. 1943. Bd. 7, hefte 1-2, p. 74-79, illus.) **Title tr.:** Northern species of the genus *Hydnobius* Schm.

Contains a table for the determination of 7 northern species of coleopterous genus *Hydnobius* (2 are new), critical notes on some of them, and list of localities for all species; including *H. hyperboreus* n. sp. (Karasjok and Lakselv) and 3 other species from northern Norway.

**Copy seen:** DA; MH-Z.

**26472. STRAND, ANDREAS, 1895- .** Die nordischen *Gyrophaena* Mannh. (Col. Staph.), mit Beschreibung von zwei neuen Arten. (Norsk entomologisk tidsskrift, 1935. Bd. 3, hefte 5, p. 395-404, illus.) **Title tr.:** Northern *Gyrophaena* Mannh. (Col. Staph.) with descriptions of two new species.

Contains a revision of 16 northern rove beetles of the genus *Gyrophaena*, with a table for the determination of the species, diagnoses of 2 new species and list of Norwegian localities for all species, including 5 species native to northern regions.

**Copy seen:** DA; MH-Z.

**26473. STRAND, ANDREAS, 1895- .** Die norwegischen Arten der Gattung *Acrotichis* Motsch. (Col. Ptiliidae). (Norsk entomologisk tidsskrift, 1941. Bd. 6, hefte 1, p. 25-30, illus.) **Title tr.:** Norwegian species of the genus *Acrotichis* Motsch.

Contains historical notes on the study of coleopterous genus *Acrotichis*, a diagnosis of *A. norvegica* n. sp. and a list of 16 species with Norwegian localities; includes 10 species native to northern Norway.

**Copy seen:** DA; MH-Z.

**26474. STRAND, ANDREAS, 1895- .** *Phytodecta norvegicus* n. sp. (Col. Chry-

somelidae). (Norsk entomologisk tidsskrift, 1936. Bd. 4, hefte 3, p. 104-105, illus.)

*Contains* a diagnosis of a new beetle, *Phytodecta norvegica* n. sp. collected by L. R. Natvig and by the author at Målselv, northern Norway (ca. 69° N.)

**Copy seen:** DA; MH-Z.

**26475. STRAND, ANDREAS, 1895-** . *Quedius pseudolimbatus* n. sp. (Col. Staph.). (Norsk entomologisk tidsskrift, 1938. Bd. 5, hefte 2, p. 79-80, illus.)

*Contains* a diagnosis of a new species of rove beetles, *Quedius pseudolimbatus* n. sp. found by the author on June 28, 1930, in Målselv, northern Norway, and comparison with related species.

**Copy seen:** MH-Z.

**26476. STRAND, ANDREAS, 1895-** . Rettelser og tilføielser til "Målselvens Koleoptera". (Norsk entomologisk tidsskrift, 1936. Bd. 4, hefte 3, p. 106-109)

**Title tr.:** Corrections and additions to "Målselvens Koleoptera."

*Contains* a list of about 50 beetles with additional data or corrections to the work of the author and H. K. Hanssen, *Målselvens Koleoptera*, 1932, q. v. dealing with coleopterous fauna of that region in northern Norway.

**Copy seen:** DA; MH-Z.

**26477. STRAND, ANDREAS, 1895-** . Seven new species of Coleoptera from Norway. (Norsk entomologisk tidsskrift, 1946. Bd. 7, hefte 5, p. 168-72, illus.)

*Contains* diagnoses of seven new species of beetles from various regions of Norway, including *Clambus borealis* and *Oxyptoda (Podoxya) hansseni* n. spp. native to northern Norway.

**Copy seen:** DA; MH-Z.

**26478. STRAND, ANDREAS.** *Stenus (Hemistenus) pseudopubescens* n. sp. (Col. Staph.). (Norsk entomologisk tidsskrift, 1940. Bd. 5, hefte 4, p. 180-82)

*Contains* a description of a new rove beetle *Stenus pseudopubescens*, native to many localities in Norway, including Tromsø and Finnmark, northern Norway, and Råneå, Norrbotten, Sweden; text in German.

**Copy seen:** MH-Z.

**26479. STRAND, ANDREAS, 1895-** . Über *Philonthus nigriventris* Ths. (Col.) eine in Scandinavien bisher z. T. verkannte Art. (Norsk entomologisk tidsskrift, 1936. Bd. 4, hefte 3, p. 102-104) **Title tr.:** On *Philonthus nigriventris* Ths. (Col.) a

species to some extent misunderstood in Scandinavia.

*Contains* a critical study of two closely related and often confused species of beetles, *Philonthus nigriventris* Thomson and *P. setosus*, both native to northern Scandinavia, with lists of localities for each species.

**Copy seen:** DLC; MH-Z.

**26480. STRAND, ANDREAS, 1895-** . Über *Rhynchaenus flagellum* Erics. (Col. Cure.). (Norsk entomologisk tidsskrift, 1941. Bd. 6, hefte 1, p. 31-33, illus.)

**Title tr.:** On *Rhynchaenus flagellum* Erics.

*Contains* a taxonomic and nomenclatorial study of a northern snout beetle, *Rhynchaenus flagellum*, distributed in northern Norway (Tromsø, Finnmark and Sørvaranger) Swedish Lapland and Vestspitsbergen (Colesbukta, Hiorthhamn i. e. Muskushamn, and Adventdalen) and comparison with related species: *R. foliorum*, *R. saliceti* and *R. angustifrons*.

**Copy seen:** DA; MH-Z.

**26481. STRAND, ANDREAS, 1895-** . Über *Stenus crassus* Steph. und *nannus* Steph. (Col. Staph.) und verwandte Formen. (Norsk entomologisk tidsskrift, 1942. Bd. 6, hefte 2-3, p. 70-74) **Title tr.:** On *Stenus crassus* Steph. and *nannus* Steph. (Col. Staph.) and related species.

*Contains* a comparative taxonomic study of two species of rove beetles, *Stenus crassus* and *S. nannus*, both native to northern Norway, and related species, including *S. formicetorum*, occurring in Målselv.

**Copy seen:** DA; MH-Z.

**26482. STRAND, ANDREAS, 1895-** . Zetterstedts funn av norske coleoptera. (Norsk entomologisk tidsskrift, 1945. Bd. 7, hefte 3-4, p. 134-35) **Title tr.:** Zetterstedt's finds of Norwegian Coleoptera.

*Contains* a list of Norwegian beetles described by J. V. Zetterstedt in his *Fauna insectorum Lapponica*, 1828, q. v., and *Insecta Lapponica*, 1840, q. v., with their modern equivalents, including 14 native to northern Norway.

**Copy seen:** DA; MH-Z.

**26483. STRAND, ANDREAS, 1895-** . Zwei neue Käfer aus Nord Norwegen. (Norsk entomologisk tidsskrift, 1943. Bd. 6, hefte 4-5, p. 206-207, illus.) **Title tr.:** Two new beetles from northern Norway.

*Contains* descriptions of two new species of beetles, *Liodes sparre-schneideri*, found

in Finnmark, and *Myllaena hyperborea* n. sp. native to Tromsø and Finnmark provinces. **Copy seen:** MH-Z.

**26484. STRAND, EMBRIK, 1876-** . *Chloroclystis chloerata* Mab. v. *hadenata* Fuchs, en for Skandinavien ny Geometer. (Entomologisk tidskrift, 1902. Årg. 23, häft. 1, p. 48) **Title tr.:** *Chloroclystis chloerata* Mab. v. *hadenata* Fuchs, a geometrid new for Scandinavia.

**Contains** critical note on this geometrid, new to lepidopterological fauna Norway, found in Tysfjorden, Nordland.

**Copy seen:** DLC; MH-Z.

**26485. STRAND, EMBRIK, 1876-** . *Depressaria arctica* Strand, n. sp. (Archiv for matematik og naturvidenskab (1901-1902, pub. 1902. Bd. 24, nr. 7, p. 1-4)

**Contains** German description of *Depressaria arctica* n. sp. collected by the author in 1900, near Storaas, Tysfjorden, northern Norway. **Copy seen:** MH-Z.

**26486. STRAND, EMBRIK, 1876-** . Die Dietyriden, Dysderiden, Drassiden, Clubioniden und Agaleniden der Collett'schen Spinnensammlung. Christiania, A. W. Brøgger, 1904. 16 p. (Norske videnskabs-akademi, Oslo. Forhandling, 1904, no. 5) **Title tr.:** Dietyridae, Dysderidae, Drassidae, Clubionidae and Agalenidae of Collett's spider collection.

**Contains** a systematic list of 51 species of spiders (two are described as new) in five families, with localities, including *Gnaphosa montana* and *G. anglica* native to Tromsø and *Tegenaria derhami* from Lofoten Islands. This was published as a supplement to the paper of R. Collett, *Oversigt over Norges Araneider, 1-2, 1876-77, q. v.*

**Copy seen:** MH-Z.

**26487. STRAND, EMBRIK, 1876-** . Enumeratio Hymenopterorum norvegorum. (Entomologisk tidskrift, 1878. Årg. 19, häft. 2, p. 71-112) **Title tr.:** An enumeration of Norwegian Hymenoptera.

**Contains** a systematic list of 856 Swedish hymenoptera with data on distribution (abbreviated names of provinces) and southern and northern limits (latitude) includes many species native to the northern provinces of Norway.

**Copy seen:** DLC; MH-Z.

**26488. STRAND, EMBRIK, 1876-** . For Norges fauna nye Staphylinider og Apioner. (Entomologisk tidskrift, 1901.

Årg. 22, häft. 2-3, p. 143). **Title tr.:** Staphylinidae and Apionis species new to the fauna of Norway.

**Contains** a list of 12 species of rove beetles (Staphylinidae), and Apionis species new to the fauna of Norway, including *Philonthus addendus* and *Atheta subtilis* native to Tysfjorden, Nordland.

**Copy seen:** DLC; MH-Z.

**26489. STRAND, EMBRIK, 1876-** . Et lidet bidrag til Norges entomologiske fauna. (Entomologisk tidskrift, 1899, pub. 1900. Årg. 20, häft. 4, p. 287-92) **Title tr.:** A small contribution to the entomological fauna of Norway.

**Contains** a list of 10 hymenoptera, 17 orthoptera and 56 hemiptera, collected by the author in various regions of Norway, including a few species from Nordland.

**Copy seen:** DA; MH-Z.

**26490. STRAND, EMBRIK, 1876-** . Eine neue arktische Gelechia Art. (Berliner entomologische Zeitschrift, 1902, pub. 1903. Bd. 47, Heft 3-4, p. 155-56) **Title tr.:** A new arctic *Gelechia* species.

**Contains** a diagnosis of *Gelechia norvegica* n. sp. collected by W. M. Schøyen in Saltdalen in Nordland province, Norway in 1881.

**Copy seen:** MH-Z.

**26491. STRAND, EMBRIK, 1876-** . Neue norwegische Schmetterlingsformen. (Archiv for matematik og naturvidenskab, 1903. Bd. 25, nr. 9, p. 1-24) **Title tr.:** New Norwegian Lepidoptera forms.

**Contains** descriptions of 26 new varieties and aberrations of lepidoptera from various regions of Norway, deposited in the Zoological Museum at Oslo, including *Mamestra pisi saltdalensis* n. ab. (Saltdalen, Nordland) and *Hadena lateritia borealis* n. var. from northern Norway.

**Copy seen:** MH-Z.

**26492. STRAND, EMBRIK, 1876-** . Norske fund av Hemiptera. (Entomologisk tidskrift, 1902. Årg. 23, häft. 3-4, p. 257-70) **Title tr.:** Norwegian localities of Hemiptera.

**Contains** a systematic list of 142 hemiptera (in 17 families), including many species native to the Nordland region of northern Norway.

**Copy seen:** DLC; MH-Z.

**26493. STRAND, EMBRIK, 1876-** . Oversigt over de skandinaviske arter av slekten Lycosa (Latr.). (Entomologisk tidskrift, 1898. Årg. 19, häft. 3-4, p. 145-58) **Title tr.:** A review of Scandi-

navian species of the genus *Lycosa* (Latr.).

Contains tables for the determination of 40 Scandinavian species (imagines) of arachnid genus *Lycosa* and of 31 species of their larvae; the distribution is not cited but the list includes at least one arctic species, *L. lapponica*.

**Copy seen:** DLC; MH-Z.

**26494. STRAND, EMBRIK, 1876-** . Orthoptera og Hymenoptera samlede i 1900. (Archiv for matematik og naturvidenskab, 1900-1901, pub. 1901. Bd. 23, no. 6, p. 1-7) **Title tr.:** Orthoptera and Hymenoptera collected in 1900.

Contains a list of ten orthopters, including *Podisma frigida* from Tysfjorden, northern Norway, and another list of 78 Norwegian hymenopters (Hymenoptera phytophaga) determined by F. W. Konow, also 43 species of Hymenoptera aculeata determined by J. D. Alfken, including several species native to Tysfjorden region.

**Copy seen:** MH-Z.

**26495. STRAND, EMBRIK, 1876-** . *Plutella hyperboreella* Strand n. sp. (Entomologisk tidsskrift, 1902. Årg. 23, hæft. 1, p. 63-64)

Contains a German description of a new beetle *Plutella hyperboreella* n. sp. collected by the author in Kaafjord, Alten, Finnmark province, Norway.

**Copy seen:** DLC; MH-Z.

**26496. STRAND, EMBRIK, 1876-** . Theridiiden aus dem nordlichen Norwegen. (Archiv for matematik og naturvidenskab, 1901-1902, pub. 1901. Bd. 24, nr. 2, p. 1-66, illus.) **Title tr.:** Theridiidae from northern Norway.

Contains descriptions of two new genera, two subgenera and 11 new species of spiders of the family Theridiidae, collected by the author in Nordland province, northern Norway and on Lofoten Islands in the summers of 1899-1900 (p. 1-48); and a systematic list of 66 species earlier described from the same regions, with data on habitat and local distribution.

**Copy seen:** MH-Z.

**26497. STRAND, EMBRIK, 1876-** . Trichoptera og Neuroptera-Planipennia. (Entomologisk tidsskrift, 1901. Årg. 22, hæft. 2-3, p. 93-96) **Title tr.:** Trichoptera and Neuroptera-Planipennia.

Contains a list of 52 Norwegian species of Trichoptera, and 22 of Neuroptera-Planipennia, including at least ten species of these flies native to Nordland.

**Copy seen:** DLC; MH-Z.

**STRAND, EMBRIK, 1876-** , see also Festschrift Dr. E. Strand. 1936-39. No. 21774.

**STRAND, EMBRIK, 1876-** , see also Münster, T. G. Bidrag til Norges koleopterfauna. 1921. No. 24513.

**STRAND, EMBRIK, 1876-** , see also Špaček, K. Prof. E. Strand. 1939. No. 26364.

**STRAND, LARS ANDREAS, see STRAND, ANDREAS, 1895-** .

**26498. STRASSEN, OTTO L. zur.** Der Seeotter. (Natur und Volk, Bd. 45, Sonderheft, Okt. 18, 1945, p. 10\*-15\*, illus.) **Title tr.:** The sea otter.

Contains a description of the sea otter; its fur; hunting of the animal; its behavior in the sea and on land; Steller's first observations on it about 1740. Bibliographic footnotes.

**Copy seen:** DSI-M.

**26499. STRASSL, HANS.** Ein Nomo-gramm für die Dauer von Polartag und Polarnacht bei beliebiger Ekliptikschiefe. (Polarforschung, 1951, Bd. 3, Jahrg. 21, p. 40-43, incl. diag.) **Title tr.:** Nomo-gram for duration of the polar day and night for any given inclination of the ecliptic.

The nomogram is shown, with full discussion and formulae for its construction and use. **Copy seen:** DGS.

**26499A. STRAY, KRISTIAN.** Experimental investigations of the reaction of the skin to cold; a contribution to the prophylaxis of freezings. Oslo, J. Dybwad, 1943. 216 p. (Norske Videnskaps-Akademi, Oslo. Mat.-naturv. klasse, 1943, no. 3)

Contains an extensive study of the anatomical, physiological and prophylactic aspects of cold injury, with the experimental part performed largely on the author himself. Includes an introductory section on the anatomy of the skin, and on its reaction to irritants (said to be the first general review of these questions and their literature). Then follow three chapters on: (1) cutaneous reactions to cold in the face and ears, as studied on recruits, with data on relation of skin temperature to occupation and hair color; relations and differences in temperature of the cheek, zygomatic arch, ears and nose; reactions and reactive changes to cold; local frostbite, etc. (2) Experimental studies on the re-

action of skin to cold air, dealing with heat exchange and balance; temperature and reactive changes of the skin; venous congestion, etc. (3) Prophylactic measures against freezing, with discussion of the characteristics of various protective substances; and account of author's experiments on wet skin, ordinary cleansed skin, and talcum-treated skin, using paraffin, cod-liver oil, vaseline, lanolin and other fatty or fat-like substances as protection against cold. Bibliography (about 300 items). **Copy seen:** DLC.

**26500. STRECKER, ROBERT L., and others.** Notes on mammals from Alaska. (Journal of mammalogy, Nov. 1952. v. 33, p. 476-80, sketch map) *Other authors:* F. A. Ryser, W. J. Tietz, and P. R. Morrison.

Contains records on 200 rodents belonging to some 15 species, trapped during July-Aug. 1950 in Alaska from Barter Island off the north coast to Valdez, Prince William Sound. Data include localities at times of trapping; size and weight; sex; abundance, etc.

**Copy seen:** DGS.

**26501. STRECKER, ROBERT L., and P. R. MORRISON.** Observations on lemmings from Barter Island, Alaska. (Journal of mammalogy, May 1952. v. 33, p. 180-84, plate)

Contains a brief report on field observations made on the island and adjacent North Alaskan coast in Aug. 1950, on the habitat of the animals, and also data on the growth of young, collared lemmings (*Dicrostonyx rubricatus* (*rubricatus*)) in captivity, their food preferences, behavior, fur, etc. Bibliography (6 items).

**Copy seen:** DGS.

**26502. STREICHER, EUGENE, and others.** Effects of extreme cold on the fasting pigeon with a note on the survival of fasting ducks at  $-40^{\circ}$  C. (American journal of physiology, May 1950. v. 161, p. 300-306) *Other authors:* D. B. Hackel and W. Fleischmann.

Laboratory study of "the blood glucose level of animals placed in the cold as an index to their nutritional status. Determinations of liver glycogen were also made to compare the rate of its depletion in the fasting pigeon at  $-40^{\circ}$  C. with birds fasted at room temperature." Author describes methods, reports results (including survival time (48 to 144 hours and effect of wind on survival of pigeons at  $-40^{\circ}$  C.) and notes that "the

insulation afforded by the feathers is essential to the survival." Bibliography (15 items). **Copy seen:** DLC.

**26503. STRELKOV, S. A.** O nekotorykh osobennostyakh gidrograficheskoi seti v nizov'yakh Eniseia. (Vsesoiuznoe geograficheskoe obshchestvo. Izvestiia, 1949. t. 81, no. 5, p. 549-54, maps) **Title tr.:** On some peculiarities of the hydrographical net of the lower Yenisey.

The author describes some peculiarities of the tributaries of the lower Yenisey ( $69^{\circ}$ - $72^{\circ}$  N.) such as the relative independence of the course of the tributaries from the Yenisey valley and the phenomenon that close to it there are located upper courses of rivers of other basins. These peculiarities are analyzed and explained in detail.

**Copy seen:** DLC.

**26504. STREL'NIKOV, I. D.** K poznaniu fauny Karskogo moria. (Predvaritel'nyi otchet o zoologicheskikh rezul'tatakh Karskoi ekspeditsii 1921 g.). (Leningrad. Leningradskii nauchnyi institut imeni P. F. Lesgafta. Izvestiia, 1923. t. 6, p. 71-81, table) **Title tr.:** Studies of the fauna of the Kara Sea. (Short preliminary report of the zoological results of the Kara Expedition 1921).

Author distinguishes four hydrobiological sectors in the area studied. Hydrologically the area has three components: (1) arctic water, present at all depths; (2) the waters of the Ob' and Yenisey, on the surface near the shore; (3) the Atlantic waters of the several branches of the Gulf Stream. The effect of these complicated hydrological conditions on the life of the sea are discussed. Summary in English. **Copy seen:** DLC.

**STREL'TSIN, G.,** see Koncha, V., & others. Khibinogorskaiia obogatitel'naia fabrika. 1933. No. 23378.

**26505. [STRENTSEL', IVAN IVANOVICH, 1811-1881].** Russkiiia ekspeditsii dlia opisaniia svernykh beregov Sibiri i prilizhashchikh ostrovov, 1734-1862 gg. Kronshtadt, 1877. 117 p. ("Iz n<sup>o</sup>n<sup>o</sup> 'Kronshtadtskogo Vrestnika' za 1876.")

**Title tr.:** Russian expeditions for the surveying of the northern coasts of Siberia and adjoining islands, 1734-1862.

Contains historical data on many Russian expeditions in arctic seas to explore the northern coasts of Siberia and European Russia, beginning with the work of the members of the second Bering or Great Northern Expedition—Malygin,

Ovčyn, Minin, Pranchishchev, Lasinius, "Brothers" Laptev and Cheliúskin, who described the coast from the Ob' to Kolyma River (1739-42); expeditions of Capt. Billings and Sarychev from the Kolyma eastward (1737), Lt. Anzhu (from Yana River) and Capt. Vrangél' (from the Kolyma, 1820-24); Ivanov, Ragozin and Berezhnykh explored the estuary of the Pechora River, Kanin Peninsula and Vaygach Island; Capt. F. P. Litke's four expeditions (1821, 1822, 1823, 1824) to Novaya Zemlya and survey of the Murmansk coast; his work in that region continued by Pakhtusov, Tšivolka, Krotov, Krapivin, Kazakov and Eremin. One of these expeditions under direction of the academician Behr and Tšivolka (in 1837) not only surveyed the coast of Novaya Zemlya but studied geology, fauna and flora of that island; another early expedition of Lt. Chichagov in 1764 and 1765, trying to find Northeast Passage, visited and surveyed Svalbard. Many other less important expeditions are briefly described in this work which was first published in *Kronshtadtskii vĕstnik* 1876 (not seen).

**Copy seen:** MH.

**26506. STRENZKE, KARL, von.** Zur Systematik westgrönländischer Oribatiden. (Zoologischer Anzeiger, 1952. Bd. 149, Heft 3-4, p. 89-96) **Title tr.:** On systematics of the West Greenland oribatids.

**Contains** a systematic list of 38 species of wood- or moss-mites, collected by de Lesse in the Disko Bay region (69°45' N.). Includes *Damaeus inornatus*, *D. trigonalis*, *Suctobelba delessei* n. spp. and *Eremaeus oblongus borealis* n. ssp.

**Copy seen:** MH-Z.

**STRENZKE, R.,** see de Lesse, H., & others. Expéd. polaires françaises, zoologie 5. 1951. No. 21396.

**26507. STRESEMANN, ERWIN.** Birds collected in the North Pacific area during Capt. James Cook's last voyage (1778 and 1779). (Ibis, Apr. 1949. v. 91, p. 244-55)

On the basis of data in John Latham's *General synopsis of birds*, 1781, Thomas Pennant's *Arctic zoology*, 1784, and the narrative of Capt. Cook's third expedition (pub. 1784), the author arranges the bird species of this voyage, according to the localities visited; using throughout the "sequence of modern taxonomy." Stresemann's is the first study of this material

since Latham and Pennant published their works, and includes birds from Prince William Sound, Unalaska, St. Matthew Island, Bering Strait, the ice of Chukchi Sea, Norton Sound, and Kamchatka. Bibliography (10 items).

**Copy seen:** DSI-M.

**26508. STRODE, HUDSON, 1893-** Finland forever. New ed. New York, Harcourt, Brace [1952]. 472 p. illus.

**Contains** author's impressions of Finland based largely on a visit there in 1939. Chapters 6-8 (p. 94-151) recount his experience of a two-day bus trip up the Arctic Highway from Rovaniemi to Liinahamari on the coast, a visit to the nickel mines, etc. Then follow chapters on history, modern progress, personages, war with Russia, etc. The present edition is similar to the first (1941) with an added section covering the period since 1940.

**Copy seen:** DLC.

**26509. STROGANOV, S. U.** Sistematika krotovykh (Talpidae). (Akademii nauk SSSR. Zoologicheskii institut. Trudy, 1948. t. 8, vyp. 2, p. 283-405, illus.) **Title tr.:** Systematics of the mole family (Talpidae).

**Contains** a monographic treatment of the mole family (Talpidae) with (p. 283-330) a systematic index of the genera and subgenera, morphological characteristics of the family, geological history and data on evolution, data on geographic distribution, bibliography (135 items). In the systematic part, p. 331-402 are tables for the determination of the subfamilies, genera and species, and description of all known species, with synonymy, critical notes and data on biology, ecology and total geographic distribution; includes *Talpa* (s. str.) *europaea*, native to Kola Peninsula and Arkhangel'sk region, *T. europaea obensis* (Berezov, western Siberia) and *T. altaica* occurring in the lower Yenisey River region.

**Copy seen:** DLC; MH-Z.

**26510. STROHMEYER, CURT.** Im Zauber Suomis; abenteuerliche Fahrten durch Finnland. Berlin, Deutscher Verlag, 1939 [1941]. 166 p., 71 illus. on plates. **Title tr.:** In the spell of Finland; adventurous travel through Finland.

**Contains** account of the author's bear-hunting trip in the Finnish far North, descriptions of reindeer-sledge travel, Lapps' costume and tents, their skill in skiing and lassoing; author's

hunting experiences, life of the gold prospectors in the region, etc. The numerous photographs, some of ethnographic value, record details of daily life of Lapps and Finns in the area.

**Copy seen:** InU.

**26511. STRONA, A. A.** Magnitnye anomalii Severnogo kraia i zadachi geofiziki po izucheniū ego glubinnol'struktury i nedr. (Sovetskaiā geologiā, Dec. 1940. no. 12, p. 75-85, map) **Title tr.:** Magnetic anomalies of the Northern region and the task of geophysics in investigating its depth structure and mineral deposits.

*Contains* a report on geomagnetic observations in northern European Russia over an area of 1 million km<sup>2</sup>, from 10,000 points (1 point: 100 km<sup>2</sup>). Observations were largely made along rivers and main roads and were more frequent south of the 60° N. lat. parallel. Nonetheless, several areas with magnetic anomalies are outlined and the implications of these anomalies with regard to the presence of salt domes, etc., are discussed. An outline for further, more intensive studies is given.

**Copy seen:** DLC.

**26512. STRONG, HAROLD N.** Survive in the Arctic! (Flying safety, Oct. 1952. v. 8, no. 10, p. 2-6, illus.)

*Contains* essential instructions to fliers for survival after emergency landing in arctic regions. Includes information on signals; use of the aircraft as shelter; building a snow shelter; first aid; prevention of snow-blindness; making goggles, etc.; blubber and other stoves; maintaining morale.

**Copy seen:** DP.

**STRONG, WILLIAM DUNCAN, 1899-**, see Cooper, J. M. N. Algonquian supreme being. 1933, 1934. No. 21290.

**STROYAN, H. L. G.,** see Doncaster, J. P., & H. L. G. Stroyan. New subg. & n. sp. aphid Jan Mayen. 1952. No. 21505.

**STRUTSOVSKAIA, A. L.,** see Smirnova, E. V., & A. L. Strutsovskaiā. Vspyskha kori. 1949. No. 26283.

**26513. STUDDS, ROBERT F. A.** Combined surveying operations in Alaska. (Military engineer, Jan.-Feb. 1951. v. 43, p. 22-27, illus.)

*Description* of the hydrographic, geodetic, magnetic and tide and current

surveys made by the U. S. Coast and Geodetic Survey in Alaskan waters; notes the methods used, program, recently developed instruments and the conditions peculiar to the region, e. g. the monumenting of triangulation stations in permafrost, use of Shoran in foggy weather, inordinate tide rips, etc.

**Copy seen:** DGS; DLC.

**Studies in the Helminth Fauna of Alaska,** see Rausch, R. L. No. 25396-25399; Schiller, E. L. No. 25950-25954.

**26514. STUKALIN, M. V.** Svechenie Okhotskogo moria. (Akademiā nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1934. no. 9, p. 137-39) **Title tr.:** The luminescence in the Sea of Okhotsk.

*Contains* observations on the luminescence of water in the Sea of Okhotsk, carried out during the voyages of the ice-breakers *Lite* and *Svir'stoi* in 1931-32; various types of luminescence are described; its causes (fluorescent algae and microscopic plankton organisms) and importance as indicator of the presence of large cetaceans are discussed.

**Copy seen:** DLC; MH-A.

**26515. STULOV, V.** Rabota traktora "Katerpillar 60" na ledian'nykh dorogakh. (Lesnoe khoziaistvo, May-June 1931. no. 5-6, p. 12-17, illus., diagrs., tables) **Title tr.:** The work of the tractor "Caterpillar 60" on ice roads.

*Contains* a brief description of this tractor and of the model (no. 5619) adapted for forest work, also descriptions of the road. The work and efficiency of the tractor; cost of fuel and oil, etc., are discussed.

**Copy seen:** DLC.

**26516. STUNKARD, HORACE WESLEY, 1889-** Pseudophyllidean cestodes from Alaskan pinnipeds. (Journal of parasitology, June 1948. v. 34, p. 211-28 incl. 4 plates)

*Extended analysis* of the inadequacy of morphologic, genetic and taxonomic knowledge of pinniped cestodes; full descriptions of four species of flatworms from Bering Sea seals and sea lions for which the author withholds names until the taxonomy is clarified. Bibliography (16 items).

**Copy seen:** DSI-M.

**SUDILOVSKAIA, A. M.,** see Dement'ev, G. P., & others. Ptitsy Sovetskogo Soiuza, t. 1. 1951. No. 21415.

**SUDILOVSKAÏA, A. M.**, see also Dement'ev, G. P. Rukovodstvo k opred. ptiš SSSR. 1948. No. 21416.

**26517. SUESS, EDUARD, 1831-1914.** The face of the earth. (Das Antlitz der Erde). Oxford, Clarendon Press, 1904-1924. 5 v. illus., plates, maps. Translation by H. B. C. Sollas under the direction of W. J. Sollas, of the work originally published in Germany, 1885-1909.

*Contents:* v. 1 (1904). Pt. 1. The movements in the outer crust of the earth. Pt. 2. Mountain ranges. v. 2 (1906). Pt. 3. The sea. Includes (as chap. 2) discussion of the Canadian Shield, the table-land of Spitsbergen, and Greenland; (as chap. 3) Kamchatka and the Aleutian Islands; (as chap. 8) the strand lines of the North. v. 3 (1908). Pt. 4. The face of the earth. Includes (chap. 2) North of Siberia; (chap. 4) watershed of the Arctic Ocean. v. 4 (1909). Pt. 5. Face of the earth (cont.). Includes (chap. 10) Entry of the Asiatic island faunas into America. Taymyr, *Anadyrides*: Verkhoyansk, Lena delta, Yana, Indigirka, Kolyma, Penzhina and Anadyr. *Alaskides*: Romanzof Range, Seward and Chukotsk Peninsula, Alaska Range and Peninsula, Aleutian Islands, and Kenai range. v. 5 (1924). Remarks on maps and index.

*Copy seen:* DLC.

**SUESS, EDUARD, 1831-1914**, see also Tetiaev, M. M. O nekotorykh voprosakh geol. Sibiri. 1923-24. No. 26653.

**26518. SUFFRIAN, CHRISTIAN WILHELM LUDWIG EDUARD, d. 1873.** Uebersicht der in den Verein. Staaten von Nord-Amerika einheimischen Chrysomelen; von F. W. Rogers, mit Zusätzen. (Stettiner entomologische Zeitung, 1858. Bd. 19, no. 7-9, p. 237-78; no. 10-12, p. 381-400) *Title tr.:* A synopsis of species of *Chrysomela* inhabiting the United States; by F. W. Rogers, with additions.

*Contains* Latin translation of species descriptions and German translation of the text of W. F. Rogers, *Synopsis*, 1856, q. v., with critical notes and additions by E. Suffrian. The second part of this paper includes five species native to "Russian America." *Copy seen:* MH.

**26519. SUHONEN, L.** Kemijoensillat rovaniemellä. (Teknillinen aikakauslehti, 1930. v. 20, p. 420-29, illus., map,

diagrs.) *Title tr.:* The Kemi River bridges at Rovaniemi.

*Contains* data on bridge construction in cold weather in an 0° C. yearly isotherm area (Rovaniemi 66°32' N. 25°53' E.). "A description of the simultaneous building of the Ounaskoski Bridge, length 340 m. and the Suutarinkorva Bridge, length 296.10 m. . . . in 1927-30 is presented. The steel railroad bridges have combination piers and ice breakers constructed of granite blocks joined by cement. A 1:3 ratio of cement was used in under-water construction and 1:4 above the water. The building work in the winter time was hampered by the freezing of materials and machinery and by the formation of frazil ice in the Kemi River which raised the water level at the bridge to 60 m. and increased the velocity from 2.0-2.5 m/sec. to 4m/sec. The scaffoldings were protected against sharp ice sheets, 1-3 cm. thick, by putting in pilings with iron reinforcements on the upstream side."—SIPRE.

*Copy seen:* DLC.

**26520. SUHONEN, L.** Maantie-ja juna-liikenteen dynaamisesta vaikutuksesta ounaskosken ja suutarinkorvan siltoihin. Maantieliikenne. (Teknillinen aikakauslehti, 1931. v. 21, no. 7-8, p. 413-19, illus., diagrs.) *Title tr.:* Dynamic influences of road and railway traffic on the Ounaskoski and Suutarinkorva bridges.

*Contains* data on the vibrations "caused by horses running in different directions and over different spans" and the "deflections caused by locomotives at varying speeds." The measurements were made from the ice in the spring. These bridges span the Kemi River at Rovaniemi in northern Finland. Summary in English. *Copy seen:* DLC.

**26521. SUHONEN, L.** Ratapölkkyjen keskimääräinen ikä maassamme ja niiden kyllästyksen kannattavuus. (Teknillinen aikakauslehti, 1935. v. 25, no. 12, p. 411-20, tables, diagrs.) *Title tr.:* Average age of sleepers and profitability of impregnation.

On basis of statistics covering 17 years. the author shows that the unimpregnated railroad sleepers (ties) last longer (barring mechanical injury) in northern than in southern Finland. Data on impregnating the ties are presented. English summary, p. 420. *Copy seen:* DLC.

**26522. SUHONEN, L.** Uusimmista kiskon kiinnitystavoista ratapölkkyihin (Ar-

vostelua, Huomiota ja kokeiluja erritain-kin kiilakiinnitystä ja pohjoismaisia olo-  
suhteita silmälläpitäen). (Teknillinen  
aikakauslehti, 1937. v. 27, p. 345-57,  
illus., diagrs.) **Title tr.:** New methods  
of fastening rails to sleepers [etc.]

Contains discussion of means for at-  
taching railroad rails to wooden ties  
(sleepers) to give security under low-  
temperature conditions. The Belgian  
method (system Ougrée) used experi-  
mentally was found efficient except for  
tendency of wedges to crack and work  
loose under winter conditions. The  
author presents here an improvement on  
the Ougrée system, by a simple device  
locking the wedge in place. Summary  
in English. **Copied seen:** DLC.

**26523. SUKACHEV, VLADIMIR NIKO-  
LAEVICH, 1880- .** *Betula cajanderii*  
sp. n. Helsinki, 1929. 7 p., plate. (Acta  
forestalia fennica, 34:13) **Title tr.:**  
*Betula cajanderii* sp. n.

Description of a new species of birch  
from central Yakutia.

**Copied seen:** DLC.

**26524. SULAKADZE, T. S.** Amounts  
of ice in frozen winter plants. (Akade-  
miä nauk SSSR. Comptes rendus (Dok-  
lady), 1939. nouv. ser., v. 23, no. 4, p.  
373-75, tables)

Study shows that the effect of harden-  
ing is to reduce the amount of ice forming  
in the plants. Another effect is to in-  
crease the resistance of the cells to the  
pressure of the ice. **Copied seen:** DLC.

**SUL'E, N.,** see Nikiforov, G., & N. Sul'e.  
V kul'turnykh ochagakh. 1952. No.  
24668.

**SUMGIN, MIKHAIL IVANOVICH,  
1873-1942,** see Sedletskii, I., & others.  
X-ray studies of ground freezing. 1945.  
No. 26010.

**26525. SUMNER, LOWELL, 1907- .**  
An air census of Dall sheep in Mount  
McKinley National Park. (Journal of  
wildlife management, July 1948. v. 12,  
p. 302-304, plate)

Report showing practicality of a prop-  
erly timed air census in connection with  
detailed population counts on the ground.  
Notes on territory, method and results:  
418 sheep were counted by air June 2,  
1947, of the actual number (598) proven.

**Copied seen:** DLC.

**26526. SUMNER, LOWELL, 1907- .**  
Magnificent Katmai. (Sierra Club bul-

letin, Dec. 1952. v. 37, no. 10, p. 29-51,  
16 plates, double-face map)

Contains a popular account of the  
eruption of Mt. Katmai, 1912, and de-  
scription of the extent, physical features,  
seacoast, scenery, and wildlife, especially  
the bears, of Katmai National Monu-  
ment.

**Copied seen:** DGS.

**SUMNER, W. J.,** *Social life in an arctic  
environment*, 1909, see Sieroszewski, W.  
Ĺakuty; ětnograf. izslěd. 1896. No.  
26192.

**26527. SUNDBORG, GEORGE, 1913- .**  
Agricultural development in Alaska;  
further possibilities and problems. Port-  
land, Ore., 1944. iii, 46 p., 4 fold. maps,  
1 fold. diagr. (North Pacific Planning  
Project. North Pacific Study. [No. 13])  
Mimeographed.

Discusses available land, most favor-  
able regions, and status of imports; Alaska  
production, consumption, and agricul-  
tural census data; climatic factors, and  
the climate, area, state of development,  
yields, and marketing in the Tanana  
valley, Matanuska-Susitna area, and  
Kenai Peninsula; advises on clearing  
methods; remarks on marketing oppor-  
tunities, government assistance, and how  
land may be acquired. *Map and dia-  
grams* show growing season and (1) tem-  
perature data, (2) precipitation data;  
darkness, twilight and daylight; climatic  
data for (1) Tanana valley, and (2) the  
Kenai, Susitna and Matanuska areas.

**Copied seen:** DI.

**26528. SUNDBORG, GEORGE, 1913- .**  
International fisheries cooperation be-  
tween Canada and the United States in  
the North Pacific. A memorandum for  
the Joint Economic Committees of Can-  
ada and the United States, Preliminary  
draft. Portland, Ore., 1943. 1 p. l., 68  
p. (North Pacific Planning Project.  
North Pacific Study. [No. 11]) Mimeo-  
graphed.

Analysis with critical discussion and  
suggestions for changes in the organiza-  
tion and work of existing and future  
international bodies and commissions.  
Includes a useful outline of the activities  
and basic problems of the International  
Fisheries Commission established in 1924  
between U. S. and Canada for protection  
of the halibut, also the International  
Pacific Salmon Fisheries Commission (set  
up in 1937 mainly in connection with  
British Columbia salmon fisheries). Re-  
ports are listed in the Appendix.

**Copied seen:** DI.

**26529. SUNDBORG, GEORGE, 1913-** , and **C. McKINLEY**. A proposal for protection of the minor fisheries of the North Pacific through cooperative action of the United States and Canada. Portland, Ore., 1944. 1 l., 28 p. (North Pacific Planning Project. North Pacific Study. [No. 12]) Mimeographed.

Discussion of past accomplishments in cooperation for protecting halibut and sockeye salmon of the Alaskan, British Columbian and Northwest waters; statistical data including Alaska, on sablefish, rockfish, cod, sole, lingcod, flounders, soupfin shark and other liver fisheries; full discussion of a proposed treaty relating to these fisheries.

*Copy seen:* DI.

**26530. SUNDBORG, GEORGE, 1913-** . Shipping services in the American North Pacific, United States and Canada. Part 2, Historical background. Portland, Ore., 1944. iii, 92 p. incl. tables, diagrs. (part fold.) fold. map. (North Pacific Planning Project. North Pacific study. [No. 9]) Mimeographed.

Historical analysis of ocean and river shipping (including Alaska) since the 18th century, with notes on disasters, ship-building, the gold rush shipping, financial development, monopolies, competition, government investigations, and legislation. Bibliography (about 200 items). For Part 1 of this work, see under J. C. Rettie and others.

*Copy seen:* DI.

**SUNDBORG, GEORGE, 1913-** , see also *Amerikanskil Sever; sbornik statel.* 1950. No. 20180.

**SUNDBORG, GEORGE, 1913-** , see also *McKinley, C., & others.* Case for limited modification cabotage. 1944. No. 24090.

**SUNDBORG, GEORGE, 1913-** , see also *McKinley, C., & others.* U. S.-Canadian post-war civil aviation. 1944. No. 24091.

**SUNDBORG, GEORGE, 1913-** , see also *Mirick, S., & others.* Feasibility of automobile ferry SE Alaska. 1944. No. 24381.

**SUNDBORG, GEORGE, 1913-** , see also *Rettie, J. C.* Population trends (etc.) Alaska. 1944. No. 25464.

**SUNDBORG, GEORGE, 1913-** , see also *Rettie, J. C., & others.* Problems

post-war utilization petroleum pipe line. 1944. No. 25465.

**SUNDBORG, GEORGE, 1913-** , see also *Rettie, J. C., & others.* Shipping services American N. Pacific, Pt. I. 1944. No. 25466.

**SUNDBORG, GEORGE, 1913-** , see also *Rettie, J. C., & others.* Suppl. Prelim. memorandum Alaska Highway. 1944. No. 25467.

**SUNDBORG, GEORGE, 1913-** , see also U. S. National Resources Planning Board. Region 10. Post war economic development Alaska. 1942. No. 26964.

**26531. SUNDELL, A. F.** Snötäcketts höjd i Finland Januari-Maj 1891. Helsingfors, 1892. 60 p., tables. (Fennia, 7:3) *Title tr.:* Thickness of the layer of snow fallen in Finland from January till May 1891.

On the basis of reports of 165 observers, observations are presented according to localities and districts with notes on the atmospheric conditions, etc. The variations, in depth of snow cover are mapped and analyzed. Total depth of snow is also given for particular water drainage areas and the total depth for the whole country is calculated.

*Copy seen:* DLC.

**26532. SUNDELL, A. F.** Snötäcketts höjd i Finland vintern 1891-1892. Helsingfors, 1894. 96 p., 2 fold. maps, tables. (Fennia, 9:1) *Title tr.:* Thickness of the layer of snow fallen in Finland in the winter of 1891-1892.

Report for the months Nov. 1891-May 1892 on the same plan and scope as the same author's work for Jan-May 1891, q. v.

*Copy seen:* DLC.

**26533. SUNDELL, I. G.** Fineness and composition of alluvial gold from the Ivalojoiki, Finnish Lapland. (Finland. Geologiska kommission. Bulletin, 1936. no. 115, p. 155-60)

Introductory note on discovery of gold in the Ivalo River by J. C. Lühr in 1868; followed by a study of the gold produced there, based on the analyses made since 1870 at the Mint (to which all claim holders were required to send their gold for assay). Percentages of silver and base metals found in the gold are given.

*Copy seen:* DLC.

**26534. SUNDELL, I. G.** On the car-  
erinite-syenite from Kuolajärvi and a

elated dike rock. Helsingfors, 1905. 21 p., plate. (Finland. Geologiska kommission. Bulletin, 3:16)

Author gives chemical analysis of cancrinite-syenite and nepheline-porphyry (the latter formerly characterized as cancrinite-syenite-porphyry) and distinguishes them. **Copy seen:** DLC.

**SUNDERMAN, FREDERICK WILLIAM, 1898-**, see Bazett, H. C., & others. Climatic effects volume & composition blood in man. 1940. No. 20517.

**26535. SUOMALAINEN, ESKO.** Supikoira (*Nyctereutes procyonoides* Gray) tavattu Suomessa. (Luonnon tutkija, 1950. v. 54, no. 2, p. 50-52, illus., map) **Title tr.:** Raccoon dogs (*Nyctereutes procyonoides* Gray) in Finland.

Contains discussion of raccoon dogs and their occurrence in Finland. That they are able to live in arctic areas seems possible since those found in Sodankylä, 67°26' N. in Finland and in northern Sweden were in healthy condition.

**Copy seen:** DLC.

**SUOMALAINEN, ESKO**, see also Valle, K. J., & E. Suomalainen. Havaintoja Petsamon linnustosta. 1934. No. 27019.

**26536. SUOMALAINEN, HANNU.** Zur Kenntnis der *Atratus*-Gruppe der Gattung *Philonthus* Curt. (Col., Staphylinidae). (Suomen hyönteistieteellinen aikakauskirja, 1941. 7:2, p. 135-41, diagr., map) **Title tr.:** Contribution to the knowledge of the *atratus* group of the genus *Philonthus*, Curt. (Col., Staphylinidae).

Description of two kinds of beetles and their distribution, which in Fennoscandia extends above the Arctic Circle.

**Copy seen:** DLC.

**SUOMEN GEOLOGINEN TOIMIKUNTA**, see Hackman, V. A., & W. W. Wilkman. Geol. översiktskarta över Finland: Kuolajärvi. 1926. No. 22316.

**26537. SUOMEN MAANTIETEELLINEN SEURA.** Exposé des travaux géographiques exécutés en Finland jusqu'en 1895. Communication faite aux sixième Congrès International de Géographie, à Londres, 1895, par la Société de Géographie de Finlande. Helsingfors, 1896. 153 p., plate. (Fennia, 13:1) **Title tr.:** Report on geographical work done in Finland to 1895. Communicated to the Sixth International Congress of Geography in London, 1895 by the Finnish Geographical Society.

This report covers the following subjects, noting field parties, their area, personnel, nature of work, etc., with investigations in the North indicated her in parentheses: geodetic and astronomical work (Lapland, Kola); cartography; topography; geology (Lapland, Kola); hydrology (northern Finland); meteorology and terrestrial magnetism (northern Finland and polar regions); botanical geography (Lapland); zoogeography (northern Finland); phenology; statistics; industrial and commercial geography; historical geography and ethnography, ethnological exploration (work of Castrén and others on Finno-Ugric peoples, Lapps, etc.). Several sections have a list of the main publications appearing in that field to 1895.

**Copy seen:** DLC.

**Supreme Commander for the Allied Powers, Tokyo. Natural Resources Section**, see Cahn, A. R. Canned crab industry Japan. 1948. No. 21071.

**26538. SURVEYING AND MAPPING.** Federal surveying and mapping agencies: U. S. Coast and Geodetic Survey. Department of Commerce. (Surveying and mapping, Jan.-Mar. 1951, v. 11, no. 1, p. 61-73, illus., maps)

Contains outline of the history and organization of the Coast and Geodetic Survey: its present functions and publications; hydrographic surveys; geodetic control surveys; state plane coordinates; nautical charts; aeronautical charts; tide and current surveys; earthquake investigation, etc. A section dealing with the surveys in Alaska (p. 68-71) gives an outline of past activities, present triangulation surveys; trigonometric leveling, topographic surveys carried out by use of a nine-lens aerial camera and associated plotting equipment. Ultimate goals and problems of survey work in arctic regions are noted.

**Copy seen:** DLC.

**26539. SURVEYING AND MAPPING.** Map reproduction in arctic areas. (Surveying and mapping, Oct.-Dec. 1951, v. 11, p. 350-52, incl. illus.)

"A complete heating, cooling and ventilating system which will regulate temperature on standard map reproduction van-type bodies mounted on a standard military truck chassis in sub-arctic temperatures is described. The major components of the heating and air cooling system are mounted over the

cab in an aluminum shell, and the ventilating system is located in the van. A gasoline-burning aircraft heater which burns general-purpose gasoline supplied from the truck's gasoline tank is used. A maximum of 200,000 B.t.u./hr. are provided. The heater can be started at temperatures down to  $-70^{\circ}$  F. and operated with 110 v.-a. c. power and will heat the van interior to  $+65^{\circ}$  F. within 1 hr. from the initial cold start."—SIPRE.

**Copy seen:** DLC.

**26540. SUSHKIN, PETR PETROVICH, 1868–1928.** Contribution to the history of the fauna of Siberia and Central Asia. (Akademiia nauk SSSR. Doklady, seriia A, Jan.–Dec., 1922. p. 17–18)

**Copy seen:** DLC.

**26541. SUSHKIN, PETR PETROVICH, 1868–1928.** Notes on systematics and distribution of certain palaearctic birds: [1st.] 2nd. contributions. (Boston Society of Natural History. Proceedings, 1925, v. 38, no. 1, p. 1–55; (II) 1928, v. 39, no. 1, p. 1–32, plates 1–3)

**Contains** (in pt. 1–2) a list of 16 species and many subspecies of birds native to palaearctic regions some described as new. Descriptions of adult and juvenile birds, critical notes, dimensions, and data on plumage and geographic distribution are given. Eleven subspecies of palaearctic goshawks are revised in pt. 2. Some species native to European and Asiatic Russia, northern Scandinavia and Alaska (*Budytes flava alascentis*) are included.

**Copy seen:** MH-Z.

**26542. SUSHKIN, PETR PETROVICH, 1868–1928.** Notes on the Pre-Jurassic Tetrapoda from USSR, III. *Dvinosaurus* Amalitzki, a perennibranchiate Stegocephalian from the upper Permian of North Dvina. (Akademiia nauk SSSR. Paleontologicheskii institut. Trudy, 1936. t. 4, p. 43–91, illus., plates 1–5)

**Contains** a detailed morphological study of *Dvinosaurus* Amalitzki, the fossil stegocephalian found by Prof. V. Amalitskii in the upper Permian deposits, in the Northern Dvina region of Arkhangelsk province, with a list of materials, state of preservation, specific characters, morphological description, analysis of characteristics and a discussion of Dollo's law of the irreversibility of the evolution; edited posthumously by I. A. Efremov; pt. I and II have not been seen.

**Copy seen:** MH-Z.

**26543. SUSHKIN, PETR PETROVICH, 1868–1928.** *Permocynodon*, a cynodont reptile from the upper Permian of Russia. (In: International Congress of Zoology. 10th, Budapest, 1927. Transactions, pt. 1, p. 804–808, 4 illus.)

**Contains** a description of *Permocynodon*, a fossil reptile found by Prof. V. P. Amalitskii in the upper Permian deposits in the Northern Dvina River valley, Arkhangelsk region, the only European cynodont.

**Copy seen:** DLC.

**26544. SUSHKIN, PETR PETROVICH, 1868–1928.** *Permocynodon*, tsinodont iz verkhne-permskikh otlozhenii r. Severnoi Dviny. (Akademiia nauk SSSR. Paleontologicheskii institut. Trudy, 1935. t. 4, p. 49–52, plate 1) **Title tr:** *Permocynodon*, a cynodont reptile from the Upper Permian of Russian.

Russian translation of the author's report in English (above) and summary in English.

**Copy seen:** MH-Z.

**26545. SUSLOV, I. M.** O natsional'noi prinadlezhnosti sovremennogo naseleniia severo-zapada Yakutskoi ASSR. (Sovetskaiia etnografiia, 1952, no. 2, p. 69–72) **Title tr:** The national identity of the contemporary population of the north-western Yakut A.S.S.R.

**Contains** account of the author's observations made while traveling in 1934: many Yakuts who are reindeer breeders and thus have adopted the form of production from Tungus, call themselves also "Tungus," although they can speak only Yakut.

**Copy seen:** DLC.

**26546. SUVOROV, EVGENII KONSTANTINOVICH.** Novyi rod i dva novykh vida ryb semelstva Zoarcidae iz Okhotskogo moria. (Akademiia nauk SSSR. Izvestiia, seriia 7, Otdelenie matematicheskikh i estestvennykh nauk, 1935, no. 3, p. 435–40, illus.) **Title tr:** A new genus and two new species of fishes of the family Zoarcidae from the Sea of Okhotsk.

**Contains** Russian and English diagnoses and dimensions of *Bothrocarina nigrocaudata* n. gen. et sp. and *Lycodes brunneofasciatus* n. sp. caught in western Kamchatka waters. Summary in English.

**Copy seen:** MH.

**26547. SUVOROV, EVGENII KONSTANTINOVICH, and L. A. SHCHETININA.** Promysel treski na Dal'nem Vostoke. (Rybnoe khozaistvo Dal'nego Vostoka, 1935. vyp. 13, kv. 1, p.

57-60, illus.) **Title tr.:** Cod fishery in the Far East.

The report covers the years 1928-1932 and deals with analyses of catches according to size, weight and age classes; average size and weight in successive years and problems of food and growth of cod. **Copy seen:** DLC.

**26548. SUVOROV, EVGENIÏ KONSTANTINOVICH.** *Raja violacea*, novyi vid skata iz Okhotskogo moria. (Akademiia nauk SSSR. Izvestiia, seriia 7, Otdelenie matematicheskikh i estestvennykh nauk, 1935, no. 3, p. 431-33, illus.) **Title tr.:** *Raja violacea*, a new species of skate from the Sea of Okhotsk.

Contains Russian and English diagnoses this fish caught on June 29, 1933 in western Kamchatka waters. Summary in English. **Copy seen:** MH.

**26549. SUVOROV, EVGENIÏ KONSTANTINOVICH.** Sovremennoe sostoianie kotikovogo khoziaistva v Amerike. (Leningrad. Vsesoiuznyi nauchno-issledovatel'skii institut ozerogo i rechnogo rybnogo khoziaistva. Izvestiia, 1931. t. 13, vyp. 1, p. 25-44) **Title tr.:** Actual state of the fur-seal fisheries in America.

Contains a physical and geographic survey of the Pribilof Islands and data on economic conditions; a description of fur-seal rookeries and harems, with tabulated data on the numbers of the bulls, cows, bachelors, annual catch, natives' pelagic sealing, marking of the seals; also notes on the technique of preparation and dyeing of skins; and prices (see table 13). The steady increase of breeding stock in the Pribilofs is compared with less favorable conditions on the Russian-controlled Commander Islands. **Copy seen:** MH-Z.

**SUVOROV, I. P.,** see Nikitin, A. A., & I. P. Suvorov. O svoistvakh drevesiny cheremukh. 1949. No. 24670.

**26550. SVEISTRUP, POUL PETER, 1892-** . Den Grønlandske handel. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 2, p. 39-58, illus.) **Title tr.:** The Greenland trade.

Brief history of the nature, jurisdiction, protection and balance of trade in Greenland. **Copy seen:** DSI-M.

**SVEISTRUP, POUL PETER, 1892-** , see also Jacobsen, N. K., & P. P. Sveistrup. Erhverv og kultur. 1950. No. 22910.

**26551. SVENONIUS, BO.** Einige schwedische Porohalacaridenfunde. (Entomologisk tidskrift, 1951. Årg. 72, häft. 1-2, p. 25-28, illus.) **Title tr.:** Some finds of Swedish Porohalacaridae.

Contains critical notes on four freshwater species of arachnids (fam. Porohalacaridae) and their distribution in Sweden, including *Soldanellonyx monardi* native to Lule Lappmark.

**Copy seen:** DLC; MH-Z.

**26552. SVENONIUS, FREDRIK VILHELM, 1852-1928.** Studien über den Kårso- und die Kebnegletscher nebst Notizen über andere Gletscher im Jukkasjärvigebirge. Stockholm, 1910. 54 p. 31 illus., 7 plates, tables. (Sweden. Geologiska undersökning. Afhandlingar och uppsatser. ser. Ca, no. 5, pt. 1) **Title tr.:** Studies of the Kårso and Kebne Glaciers with notes on other glaciers in the Jukkasjärvi Mts.

A geologist's account of the glacier investigations he conducted during six weeks in the summer of 1908. The Jukkasjärvi Mts. have approximately 70 glaciers, most of which are between 67°50' N. 18°3' E. and 68°10' N. 18°40' E. The precipitation amounts and the summer temperatures of the Kårso Glacier are given for a three-year period (1905-1908). A supplement presents the ablation measurements taken in the summer of 1909. Descriptions and measurements of the glaciers around the Kebnegjokk and the Tarfalajokk as well as of a number of other glaciers in the region are included. Previously listed as *Arctic Bibliography*, No. 17271.

**Copy seen:** DLC.

**SVENSK INSEKTFAUNA,** see Aurivillius, P. O. C. Svensk insektfauna 2, Rättingar. 1901. No. 20372.

Aurivillius, P. O. C. Svensk insektfauna 13, Steklar I; Gaddsteklar 1-8. 1903-08. No. 20373.

Mjöberg, E. G. Svensk insektfauna 8:1, Neuroptera. 1909. No. 24396.

Sjösted, B. Y. Svensk insektfauna III, Pseudoneuroptera. 1902. No. 26240.

Wahlgren, E. O. Svensk insektfauna 1, Borstsvansar. 1906. No. 27222.

Wahlgren, E. O. Svensk insektfauna 10, Lepidoptera. 1915. No. 27223.

**SVENSK SPINDELFAUNA,** see Tullgren, H. A. No. 26829-26831, 26835.

**26553. SVENSSON, INGVAR.** Lepidopterologiska iakttagelser. (Entomologisk

tidskrift, 1946. Årg. 67, häft. 1-2, p. 53-61) **Title tr.:** Lepidopterological observations.

*Contains chiefly data on geographic distribution of butterflies and moths in Sweden, based on the author's observations and collections, mostly in Skane, province (Glimåkra) 1937-45, but including at least five species found in Lycksele Lappmark.* **Copy seen:** DA; MH-Z.

**26554. SVENSSON, INGVAR.** Lepidopterologiska iakttagelser II. (Entomologiska tidskrift, 1950. Årg. 71, häft. 1, p. 46-54) **Title tr.:** Lepidopterological observations II.

*Contains a systematic list of about 200 butterflies and moths collected by the author and new to the various provinces of Sweden, including a number of species new to the fauna of Swedish Lapland, with some ecological and zoogeographic data. Summary in English.*

**Copy seen:** DLC; MH-Z.

**SVERDRUP, ARNE,** see Boë, F., & others. Adrenocorticotrophic hormone in whale. 1951. No. 20757.

**26555. SVERDRUP, HARALD ULRIK, 1888-** . Physical oceanography of the north polar sea. (Arctic, Dec. 1950. v. 3, p. 178-86, map)

*General account of the 20th century results of observations on bathymetry, ocean currents, temperature and salinity of the Arctic Basin. Bibliography (10 items).* **Copy seen:** DAI; DLC.

**SVERDRUP, HARALD ULRIK, 1888-** , see also Polarboken. Norsk Polarinstitutt. 1951. No. 25177.

**SVERZHINSKAÏA, E. A.,** see Eliseev, N. A., & E. A. Sverzhinskaïa. Chemical composition of eudialytes. 1941. No. 21640.

**26556. SVETOVIDOV, A. N.** O chertakh skhodstva i razlichii v rasprostraneni, ékologii i nekotorykh drugikh osobennostíakh mezhdú treskoí i okeanicheskoi sel'd'û. (Zoologicheskii zhurnal, 1944. t. 23, vyp. 4, p. 146-55, text maps) **Title tr.:** On certain characteristics in cod and herring in regard to similarity and difference in distribution, ecology and other peculiarities.

*Contains a study of similarity in the systematics and geographic distribution of cod and herring in the northern seas, with a table of taxonomic characters and geographic distribution of six parallel*

forms of *Gadus* and *Clupea*. The similarity and difference in their biology and ecology is studied on the basis of history of their origin and past distribution. Summary in English.

**Copy seen:** MH-Z.

**26557. SVETOVIDOV, A. N.** . geograficheskoe rasprostraneniye i biologiya i drugikh semelstv otríada Gadiformes. (Moskovskoe obshchestvo ispytateley prirody. Bûlleten', 1940. Otdel. biol. Novaya seriya. t. 49, vyp. 1, p. 50-60, text map) **Title tr.:** On the geographic distribution of the cod and of the other families of Gadiformes.

*Contains data on the present total distribution of codfishes (Gadidae), their biology and fossil remains, with a study of the history of distribution of this family and other families of Gadiformes in relation to the Tertiary history of the whole northern hemisphere. Summary in English.*

**Copy seen:** MH-A.

**26558. SVETOVIDOV, A. N.** Ob osobennostíakh nekotorykh bipolárnykh arealov morskikh ryb i o prichinakh, ikh obuslovivshikh. (Vsesoyúznnoe geograficheskoe obshchestvo. Izvestiya, 1949. t. 81, no. 1, p. 44-52, maps) **Title tr.:** On the peculiarities of some bipolar areas of sea-fish and on their causes.

*The author discusses and analyzes the bi-polar distribution of several species and genera. He concludes that neither subarctic nor boreal forms have a bi-polar distribution but only boreo-subtropical and subtropical forms. The absence of some bi-polar forms from the southern coast of Africa is assumed to be due to lack of temperatures suitable for multiplication of these fish. Bibliography (18 items).* **Copy seen:** DLC.

**26559. SVETOVIDOV, A. N.** Sig rek Kary i Sibirehi (*Coregonus lavaretus pidschian natio bergiellus*). (Akademiya nauk SSSR. Zoologicheskii institut. Trudy, 1936. t. 4, vyp. 2, p. 389-424, illus., diagr.) **Title tr.:** *Coregonus lavaretus pidschian natio bergiellus* from the Kara and Sibireha Rivers.

*Contains a description of a new natio, or subspecies of the second order, of *Coregonus lavaretus pidschian* and biological data on this anadromous white-fish, studied by the author in the Kara and Sibireha-Yakha Rivers (flowing into Kara Bay, 69° N. 65° E.) western Siberia; mean value, mean error and standard deviation are calculated for every char-*

acter; the length of the natio, the growth rate, the weight, etc., are represented in numerous tables. Summary in English.

**Copy seen:** MH-Z.

**26560. SVIATOVSKIĬ, A. E., and F. M. DITERIKHS.** Materialy k izucheniiu apatitovykh mestorozhdenii Khibinskikh tundr. (Akademiia nauk SSSR. Izvestiia. Seriiu geologicheskaiu, 1939, no. 4, p. 80-93, illus., map) **Title tr.:** On apatite deposits of the Khibiny tundras.

Contains geological and petrographic surveys of the Khibiny tundra region of Kola Peninsula, as explored by the authors in 1935, and a "description of apatite-spheneous ores along the South Lavoyok River, which are probably the apophyses of the intrusion of phosphoric (apatite) magma."—From English summary.

**Copy seen:** MH.

**26561. SVIRIDOV, N. D.** Itogi raboty mashin po razrusheniiu merzlogo sloia zalezhi v sezone 1952 g. (Torfianaiu promyshlennost', Oct. 1952. v. 29, no. 10, p. 7-10, tables) **Title tr.:** Results of machine work in breaking up the frozen layer of deposits during the season of 1952.

Contains information and data on the losses due to freezing of peat banks and the importance of mechanized equipment in cutting losses to a minimum; comparison and analysis of the work and efficiency of two types of machines used for breaking up the frozen layer; running expenses, etc.; experience and data on these two machines in over 20 peat enterprises; conclusions and recommendations.

**Copy seen:** DLC.

**26562. SVIRSKAIĀ GOSUDARSTVENNAIĀ RAIONNAIĀ gidroelektricheskaiā stantsiia.** Svir'stroi; bor'ba s ledokhodom na r. Sviri; sostavil F. I. Bydin. Leningrad, Izd. Svir'stroia, 1933 [cover 1934] 158 p., illus. **Title tr.:** Svir'stroy; struggle with the ice flow on the Svir' River; compiled by F. I. Bydin.

Technical treatment of the problem of the freezing of rivers, floating ice, etc. Measures to combat hazards of the spring break-up (by explosives, groove-cutting, etc.), are given in detail, and hydrological and other aspects discussed on the basis of the author's experience during three winters at the power plant on the lower Svir' (flowing into Lake Ladoga 60°30' N. 32°54' E.), 1929-32.

**Copy seen:** DLC.

**26563. SWADESH, MORRIS.** Kleinschmidt Centennial III: Unaaliq and Proto Eskimo [1]. (International journal of American linguistics, 1951. v. 17, no. 1, p. 66-70)

Contains a linguistic presentation of a body of Unaaliq Eskimo material shown in relation to other Eskimo dialects from Alaska to Greenland: time depth, typical dialects, main divisions; it may be correct to recognize two separate languages with dialectal variations in each.

**Copy seen:** DLC.

**26564. SWADESH, MORRIS.** South Greenlandic paradigms. (International journal of American linguistics, 1948. v. 14, no. 1, p. 29-36)

Contains linguistic paper on the noun paradigm, verb endings, mode-signs, agglutination, etc. It is based on material contained in S. Kleinschmidt's *Grammatik der Groenlandischen Sprache*, 1851 (Arctic Bibliography, No. 8809.)

**Copy seen:** DLC.

**26565. SWADESH, MORRIS.** Unaaliq and Proto Eskimo, 2-5. (International journal of American linguistics, 1952. v. 18, no. 1, p. 25-34; no. 2, p. 69-76; no. 3, p. 166-71; no. 4, p. 241-56)

Contains four papers in the series initiated with the author's *Kleinschmidt Centennial III*, etc., q. v. These deal with: (2) phonemes and morphophonemes; (3) synchronic notes (use of suffixes, cases, verbal modes, etc.); (4) diachronic notes (groups of consonants and vowels); and (5) a comparative vocabulary (about 500 terms with English equivalents).

**Copy seen:** DLC.

**SWADESH, MORRIS, see also Marsh, G., & M. Swadesh.** Kleinschmidt centennial: Eskimo-Aleut correspondences. 1951. No. 24191.

**SWAIN, L. A., see Bailey, B. E., & others.** Marine oils. 1952. No. 20408.

**26566. SWANSON, FREDERICK.** "Stop-gap" home care of tuberculosis. (Alaska's health, Nov. 1947. v. 5, no. 11, p. [1-3])

Description in some detail of the visit and treatment given in the Alaskan native community by a mobile health unit, the motor vessel *Hygiene*.

**Copy seen:** DLC.

**26567. SWANTON, JOHN REED, 1873-** Social condition, beliefs, and linguistic relationship of the Tlingit

Indians. (U. S. Bureau of American Ethnology, Annual report, 1904-1905, pub. 1908. p. 391-485, 15 illus., col. plates XLVIII-LVIII)

A result of the author's work at Sitka and Wrangell in Jan.-Apr. 1904, specifically collecting myths and linguistic material and generally studying Tlingit ethnology. He lists the many tribal subdivisions (in the vernacular with English equivalent), outlines (with considerable linguistic detail and illustrative myths) the history, clan emblems, social customs, potlatches, games, charms, war customs, cosmology, beliefs and shamanistic practices of the Tlingits; at end (p. 472-85) is a chapter: Relationship between the Tlingit and Haida languages. *Illustrations* show masks, utensils, crests, etc., and facial paintings of the Tlingits. **Copy seen:** DLC.

**26568. SWARTH, HARRY SCHELD, 1878-**. Birds and mammals of the Stikine River region of northern British Columbia and Southeastern Alaska. (California. University. Publications in zoology, 1922. v. 24, p. 125-314, illus., incl. map; 8 plates)

On the basis of observations made during May-Aug. 1919, the author describes the physical features of the Stikine River country, and its zonal and faunal position; and gives full field notes on 34 species of mammals and 127 species of birds. *Bibliography* (100 items). **Copy seen:** DSI-M.

**26569. SWEAZEY, MANLEY E.** Moose of the Susitna. (Alaska sportsman, Sept. 1950. v. 16, p. 10-11, 24-28, illus.)

Description of the wild moose and its nuisance value along the Alaska Railroad, based on the author's experiences photographing the animals.

**Copy seen:** DI.

**SWEDEN. GEOLOGISKA UNDER-SÖKNING. DIE GLETSCHER SCHWEDENS IM JAHRE 1908.** Stockholm, 1910, *see* Enquist, F. K. Über Gletscher von Jämtland u. Härjedalen. 1910. No. 21674.

Gavelin, A. Über Norra Storfjället u. Ammarfjället. 1910. No. 22045.

Hamburg, A. Gletscher d. Sarekgebirges. 1910. No. 22385.

Hamburg, A. Kurze Übersicht d. Gletscher Schwedens. 1910. No. 22386.

Svenonius, F. V. Studien über d. Kårso- u. Kebnegletscher. 1910. No. 26552.

Westman, J. Beob. über Sultitälma-

Gletscher 1908. 1910. *Arctic Bibliography* No. 19343.

**26570. SWEETMAN, WILLIAM J., and others.** Better forage for Alaska. Palmer, Alaska, 1950. 19 p., illus., tables. (Alaska. Agricultural Experiment Stations. Circular no. 12) *Other authors:* H. J. Hodgson and A. H. Mick.

*Contains* a report and recommendations based on recent field studies. Oats and peas are recommended for silage; instructions for planting and harvesting of these plants, as well as brome grass and clovers, are given, also directives in use of manure and fertilizers.

**Copy seen:** DA.

**26571. SWEETMAN, WILLIAM J., and others.** Raising dairy calves and heifers in Alaska. Palmer, Alaska, May 1951. 12 p. illus., tables. (Alaska. Agricultural Experiment Station. Circular no. 17; published in cooperation with U. S. Dept. of Agriculture, Agricultural Research Administration) *Other authors:* Wallace R. Middleton and Fred Swingle.

*Contains* brief instructions how to raise herd replacements in Alaska. Includes directives as to feeding of cows and offspring; shelter; composition and economics of feed; rations for calves, etc.

**Copy seen:** CA:MAI.

**26572. SWENSON, OLAF, 1883-**. Northwest of the world; forty years trading and hunting in northern Siberia. New York, Dodd, Mead Co., 1944. 6 p. l., 270 p., 8 plates.

*Contains* account of the author's experiences operating as a trader out of Seattle, to the Kamchatka and Chukotka from 1900 till about 1930, including his shipwrecks, and trips as far as Cham Bay, Sredne Kolymsk, and overland by Verkhoyansk to Yakutsk. He describes local conditions in places he visited from time to time; his relations with natives, many of them friends of long standing, and with Russian officials; also occasional encounters with, or news of other traders, whalers and expeditions such as the *Karluk* drift, Ben Eielson's last flight, etc. Scattered throughout the book are many realistic observations on native life as Swenson knew it, particularly that of Chukchis (e. g. p. 20-33), also Yakuts (p. 218f, 228f, 231-34, 237, 240-44, 253f) and Lamuts (p. 218f). He notes difference between coast Chukchis, called "Ankalin," and the inland deer-breeders, or "Chowchus." The Karakees, living at

Navarin, seem to him a different sort of people from the Chukchis. Anecdotes are given of an operation, performed by a Chukchi medicine man (p. 81-83), of native thievery and honesty, etc.

**Copy seen:** DLC; InU.

**26573. SWIFT, RAYMOND W.** The effect of feed on the critical temperature for the albino rat. (Journal of nutrition, Nov. 1944. v. 28, no. 5, p. 359-64, table, diagr.)

The heat production of six mature, male rats was determined at environmental temperatures of 15° to 34° C. both while the animals received a diet with a high dynamic effect, and while they were fasting. The zone of thermal neutrality for the fasting rats was found to be from 28° to 33° C.; the effect of feed was to lower both limits of this range by 1° C. About one third of the heat increment of the food, as observed in the zone of thermal neutrality, was manifest below the critical temperature. Bibliography (5 items).

**Copy seen:** DSG.

**26574. SWIFT, RAYMOND W., and RICHARD M. FORBES.** The heat production of the fasting rat in relation to the environmental temperature. (Journal of nutrition. Sept. 1939. v. 18, no. 3, p. 307-318, illus.)

Contains a report on the heat production of albino rats in the post-abortive state, kept at environmental temperatures of 7.5°-35.0° C. The critical temperature for fasting rats was found to be 30° C. The metabolism was constant over a range of 30° C. to 33° C. The percentage of total heat, eliminated as latent heat of water vapor, increased steadily from 7.9 per cent to 59.2 per cent, with rise of environmental temperature from 7.5° C. to 35° C., though the absolute amount of heat eliminated in this manner was practically constant up to 31° C., above which a definite increase took place. Bibliography (12 items).

**Copy seen:** DSG.

**SWINGLE, FRED,** see Sweetman, W. J., & others. Raising dairy calves & heifers. 1951. No. 26571.

**SYCH-AVERINTSEVA, NATALIĀ,** see SYTSCH-AWERINZEW, NATHALIE.

**26575. SYLVÉN, EDVARD.** Fjärilar från Norrbotten. (Opuscula entomologica, 1942. Bd. 7, häft. 3-4, p. 77-91) **Title tr.:** Lepidoptera from Norrbotten.

Contains some general notes on the geography and vegetation of Norrbotten and a list of about 75 butterflies and moths collected by the author in the summer of 1941, with data on habitat, ecology and distribution in Norrbotten and adjoining regions (Swedish and Finnish Lapland).

**Copy seen:** DA; MH-Z

**26576. SYLVÉN, EDVARD.** Lepidoptera. (In: Brinck, P. S. V., and K. G. Wingstrand, *Mountain fauna of Virihaure*, 1949-51, pt. 2, p. 108-117)

Contains a list of 38 species of large size butterflies (Macrolepidoptera) and 28 species of small butterflies native to the Virihaure region of Lule Lappmark, with notes on habitat, and data on Scandinavian and total distribution.

**Copy seen:** MH-Z.

**26577. SYLVÉN, EDVARD.** Makro- och mikrolepidoptera från Åsele Lappmark. (Opuscula entomologica, 1945. Bd. 10, häft. 1-2, p. 43-53, illus.) **Title tr.:** Macro- and Microlepidoptera from Åsele Lappmark.

Contains a brief account of a collecting trip made by the author in the summer of 1943 with a general description of lepidopterous fauna of Åsele Lappmark, statistical data on distribution in the natural zoogeographic regions and a list of 131 lepidoptera (69 Macrolepidoptera and 62 Microlepidoptera), including 71 species new to the fauna of Åsele Lappmark, bringing the number of all known species to 212.

**Copy seen:** MH-Z.

**26578. SYTIN, V.** Ėkspeditsiĭa za Tungusskim meteoritom 1928 g.; predvaritel'noe soobshchenie. (Sovetskaja Aziĭa, 1928. god 4, no. 5-6, p. 189-90) **Title tr.:** The expedition to the Tunguska meteorite, 1928; preliminary information.

Contains account of the work of an expedition, Apr.-Aug. 1928, sent by the Academy of Sciences U.S.S.R. under L. A. Kulik (q. v.) to investigate a huge meteorite, which had fallen in 1908 in the taiga north of the Podkamennaya Tunguska.

**Copy seen:** DLC.

**26579. SZÉKESSY, VILMOS.** A boreoalpesi bogarak reviziója, összehasonlító anatómiai alapon. (Magyar tudományos akadémia, Budapest. Matematika természettudományi értesítő, 1935. v. 52, p. 456-58) **Title tr.:** A revision of boreoalpine Coleoptera on a comparative anatomical basis. [Part I].

Preliminary statement of scope, emphases (sexual organs, geographic distribution, hypotheses of origin), of investigation reported in *Revisión du borealpinen Koleopteren*, 1936, q. v.

**Copy seen:** DLC.

**26580. SZÉKESSY, VILMOS.** Ein neuer Fall von borealpinen Verbreitung bei Koleopteren. *Phytodecta nivosa* Suffr. = *P. affinis* Gyllh. (Chrysom.); nebst einem Nachtrag zu Holdhaus' Verzeichnis der borealpinen Tierformen. (Koleopterologische Rundschau, 1934. Bd. 20, p. 32-36) **Title tr.:** A new case of boreo-alpine distribution of beetles: *Phytodecta nivosa* Suffr. = *P. affinis* Gyllh. (Chrysom.); and a supplement to Holdhaus' Verzeichnis [etc. A list of boreo-alpine insects].

Contains a study of two beetles, of which *Phytodecta nivosa* is found to be a synonym of *P. affinis*, a boreo-alpine form native to Swedish and Russian Lapland, Kanin Peninsula, Alaska and Hudson Bay region; also a list of new localities for 19 beetles treated by Holdhaus (1912) in the paper cited. Includes *Patrobis septentrionis* from Alaska, Labrador, Kamchatka Peninsula, Kanin and Lapland, also *Simplocaria metallica* from Greenland.

**Copy seen:** MH-Z.

**26581. SZÉKESSY, VILMOS.** Revision der borealpinen Koleopteren auf vergleichend-anatomischer Grundlage, II Teil. (Entomologisk tidskrift, 1936. Årg. 57, häft. 2-3, p. 97-126, plates 2-3) **Title tr.:** A revision of boreoalpine Coleoptera on a comparative anatomical basis, Part II.

Contains a critical revision of 20 boreo-alpine species of Coleoptera, based on a comparative anatomical study of these species, and their total geographic distribution; investigated material included coleopters from northern Scandinavia, U.S.S.R. and Greenland; systematic changes with expansion of areas is discussed. Bibliography (38 items).



**Copy seen:** DA; MH-Z.

**26582. T., W. M.** The *St. Roch* monument. (RCMP quarterly, Jan. 1951. v. 16, no. 3, p. 230-31, illus.)

Account of monument erected in Regina by Historic Sites and Monuments Board of Canada, to commemorate the west-east navigation of the Northwest Passage by the *St. Roch* 1940-42.

**Copy seen:** CaMAI.

**26583. TABER, STEPHEN, 1882-** Geology, soil mechanics, and botany (Science, June 27, 1952. v. 115, no. 3000, p. 713-14)

"Previous explanations for the formation of cotton grass tussocks, peat rings and other permafrost formations resulting from freezing-and-thawing are criticized. [Reference is made to D. M. Hopkins and R. S. Sigafos' *Frost action*, 1950, q. v.]. The soil of Seward Peninsula is mostly silt and freezes slowly. Water segregates to form ice lenses consisting of growing prismatic crystals which exert pressure perpendicularly to the cooling surface. The pressure developed by the growing crystals is linear rather than volumetric and is exerted upward against the weight of the overlying soil."—SIPRE. **Copy seen:** DLC.

**26584. TACHÉ, ALEXANDRE ANTONIN, Archbishop of St. Boniface, 1822-1894.** Vingt années de missions dans le nord-ouest de l'Amérique. Nouv. éd. entièrement rev. et augm., avec une préface de M. T. A. Bernier. Montréal: Librairie Saint-Joseph, Cadieux & Derome, 1888. 238 p., 1 l. front., plates, ports. **Title tr.:** Twenty years of missions in the northwest of America. New edition completely revised and enlarged, with a preface by T. A. Bernier.

First published in 1866, a year-by-year report, 1845-65 on the activities of the Catholic mission in the Canadian Northwest, an extensive archdiocese which included the far North. The report throws some light on conditions prevailing at the time in that area and on the life of the Indians. **Copy seen:** DLC.

**26585. TAIVAINEN, O. A.** Maanteiden talviaukkipidon kehitys kuluneen neljän vuosikymmenen aikana. (Tielehti, 1951. v. 21, no. 4, p. 10-12, tables, diagr.) **Title tr.:** The development of winter-road clearance during the past quarter century.

Contains discussion (with tabular data for 1951) of the increase in Finnish roads kept open by snow removal, including those in far North where winter conditions prevail for a 6-7 month period, with tabular data for 1951.

**Copy seen:** DLC.

**26586. TAIVAINEN, O. A.** Maantien ja niiden kevätkelirikko. (Tielehti, 1951. v. 21, no. 2, p. 10-12, illus.) **Title tr.:** Our roads and their condition in the spring.

Contains description of the effect of the spring thaw on roads in Finland including those in the North, with data on the beginning of the thaw in various sections of the country; costs of the road work, etc.

**Copy seen:** DLC.

**26587. TAKHISTOV, B. A.** The biological adaptability of larvae of *Dictyocaulus hadweni*, a nematode of the lungs of the reindeer, to the conditions of the polar climate. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1942. Nouv. ser. v. 34, no. 2, p. 67-68)

Investigations carried out at Ponoy on Kola Peninsula traced developmental stages of the parasite and showed that its mass invasion of the reindeer (causing bronchitis or focal pneumonia) occurred where the same pasture plot was used for more than 3-4 days. Prophylactic measure recommended against outbreak of dictyocaulosis is to change feeding areas in the tundra every 2-5 days according to higher or lower air temperature.

**Copy seen:** DLC.

**26588. TALBOTT, JOHN H., and others.** Hypothermia; report of a case in which the patient died during therapeutic reduction of body temperature, with metabolic and pathologic studies. (Archives of internal medicine, Dec. 1941. v. 68, p. 1120-32, diagr., 2 tables) *Other authors:* W. V. Consolazio and L. J. Pecora.

Contains a case report of a physically fit schizophrenic patient submitted to general hypothermia of a minimum of 80° F. During restoration of normal temperature, heat was applied too rapidly causing cardiovascular breakdown; a combination of minor disorders had probably a contributory effect. Detailed account of the course of the hypothermia, laboratory and postmortem data are included.

**Copy seen:** DLC.

**TALBOTT, JOHN H., see also** National Research Council. Subcommittee on Clothing. Clothing test methods. 1945. No. 24577.

**26589. TALIEV, D. N.** Novaja forma lososa iz r. *Oncorhynchus*. (Akademiia nauk SSSR. Doklady, seriia A, 1932. No. 14, p. 346-51, illus., table) **Title tr.:** A new form of salmon of gen. *Oncorhynchus*.

A new subspecies of red salmon, its morphology and biology, are described.

**Copy seen:** DLC.

**26590. TALLGREN, A. M.** Biarmia. (Eurasia Septentrionalis antiqua, 1931. v. 6, p. 100-120, 8 illus., map)

Contains analysis of the saga of Ottar's voyage to the "Biarmenland" about 870 A. D. described in the "Saga of Olaf the Saint" by Alfred the Great in 1026. The Norwegians sailed eastwards of Nordkap, reached the land of Biarmia, bartered their goods for furs, and plundered the Jomali's sanctuary of the Biarmians who seemed to them to speak the same language as the Lapps. Tallgren tries to localize Biarmialand and investigates archeological objects from Permian territory, which, however, do not show any Scandinavian influence. Conclusion is made that Biarmia must lie somewhere in Karelia, and that the description of the sanctuary was made following the facts found among the Lapps.

**Copy seen:** DLC.

**26591. TALLGREN, BRUNO.** Abraham Ortelius' karta Septentrionalium regionum descrip. Antverpiae 1570. Helsingfors, 1909. 12 p. double map. (Geografiska foreningen i Finland. Meddelanden, 1907-1909. Bd. 8, no. 12) **Title tr.:** Abraham Ortelius' map Septentrionalium regionum descrip. Antwerp, 1570.

Contains historical sketch of 15-16th century cartography in relation to Finland, reproduction of Ortelius' map and Swedish translation of his accompanying text on "Scandia or the Northern lands."

**Copy seen:** DLC.

**26592. TAMBERG, T. G.** O vyzrevanii semian odnoletnikov v Zapoliar'e. (Moskva. Glavnyi botanicheskiĭ sad Akademii nauk SSSR. Būlleten', 1948. vyp. 1, p. 69-70) **Title tr.:** Seed ripening of annuals in the polar region.

Contains account of seed gathering from annual plants in Kola Peninsula, with data on the seed maturing time of various plants and their division into three groups on this basis.

**Copy seen:** MH-A.

**26593. TAMBOV'TSEV, B. M.** Obyknovennaiia belona v Belom more. (Priroda, 1949. no. 10, p. 70-71, illus.) **Title tr.:** The common needlefish in the White Sea.

Contains a report of the discovery of two specimens of the common needlefish (*Belone vulgaris*) known previously from Norwegian waters (Varanger Fiord) caught in Solovetskiye Islands waters, White Sea.

**Copy seen:** DLC; MH.

**26594. TAMBS-LYCHE, HANS.** Die norwegischen Spinnen der Gattung *Pardosa* Koch. Oslo, J. Dybwad, 1940. 59 p. illus., plates 1-3. (Norske videnskaps-akademi, Oslo. I. Matematisk-naturvidenskapelig klasse. Avhandlingar, 1939, no. 6) **Title tr.:** Norwegian spiders of the genus *Pardosa* Koch.

Contains a critical revision of spiders of the genus *Pardosa*, with a list of 14 species, all occurring in northern provinces of Norway. Synonyms, localities, data on geographic distribution (p. 47-51) and notes on the life cycle are given. Bibliography (49 items).

**Copy seen:** MH-Z.

**26595. TAMBS-LYCHE, HANS.** Notes on Norwegian spiders. (Norsk entomologisk tidsskrift, 1942. Bd. 6, hefte 2-3, p. 107-114)

Contains a list of new localities of 31 Norwegian spiders, including *Aranee diatemata* from Magerøy, Finnmark, and two species from Rana, Nordland, also a revision of some determinations of spiders by A. Strand and R. Collett.

**Copy seen:** MH-Z.

**26596. TAMBS-LYCHE, HANS.** Notes on Norwegian ticks. (Bergen, Norway. Museum. Aarbok; naturvidenskapelig rekke, 1943, nr. 3, p. 1-8)

Contains descriptive notes on four species of Norwegian ticks of the family Ixodidae, including *Ceratixodes uriae* native to Nordland province.

**Copy seen:** MH-Z.

**26597. TAMBS-LYCHE, HELEN.** Aphids on potato foliage in Norway I; with a supplement on aphids in greenhouses. (Norsk entomologisk tidsskrift, 1950. Bd. 8, hefte 1-3, p. 17-46, text maps 1-5)

Contains a study of five species of aphids living on potato foliage in Norway including *Aulacorthum pseudosolani* found in Gibstad, Troms (see text map 3), with synonymy, data on biology and detailed list of Norwegian localities for each species, a list of 14 species found occasionally on potato, their host plants and a bibliography (24 items).

**Copy seen:** DA; MH-Z.

**26598. TAMS, ERNST, 1882-** Das Epizentrum des Bebens vom 22. Januar 1910. (Beiträge zur Geophysik, 1910. Bd. 10, Kleine Mitteilungen, p. 250-55, map) **Title tr.:** The epicenter of the earthquake of Jan. 22, 1910.

Discussion of various figures offered for the location, and the ultimate fixing of its position at about 68° N. 17° W., north of Iceland in Greenland Sea.

**Copy seen:** DGS.

**26599. TAMS, ERNST, 1882-** Erdbeben im Gebiet der Nordenskiöld See. (Beiträge zur Geophysik, 1927. Bd. 17, p. 325-31, incl. map) **Title tr.:** Earthquakes in the region of Nordenskiöld Sea.

Notes on five local disturbances, 1909-23, in the region of Laptev Sea, and explanation of their occurrence on the basis of the geology of the region. The seismicity of this region is recognized as epigenetic.—From author's abstract.

**Copy seen:** DGS.

**26600. TAMS, ERNST, 1882-** Die Seismizität der Arktis. (Polarforschung, 1950, pub. 1951. Bd. 2, Jahrg. 20, p. 326-28) **Title tr.:** The seismicity of the Arctic.

General survey of research on earthquake activity, especially the work of B. Gutenberg and C. F. Richter, *Seismicity of the earth*, 1949, q. v.; with remarks on regions of frequent or recent activity in the Arctic. Bibliography (5 items).

**Copy seen:** DGS.

**26601. TAMS, ERNST, 1882-** Vergleichende Untersuchung der Vorläufer- und Nachläuferperioden in den Hamburger Diagrammen von drei Beben der Nordenskiöld See. (Beiträge zur Geophysik, 1927. Bd. 17, p. 434-42, diagrs.) **Title tr.:** Comparative study of the previous and subsequent periods to three quakes in Nordenskiöld Sea, as shown on Hamburg records.

The record showed identity in both phases, and upon study it indicated that there were two disturbances with the same epicenter and similar strength also a close relationship with regard to frequency distribution of periods in the fore- and after-phases; while the third stronger, nearby disturbance showed certain variations from this distribution. Bibliography (4 items).

**Copy seen:** DGS.

**26602. TANASHCHUK, N. P.** Materialy k poznaniu fauny Barentsova morya. Murmansk, 1929. 31 p. tables. (Leningradskoe obshchestvo estestvoispytatelei. Murmanskā biologicheskā stanitsā. Raboty, t. 3, no. [1]) **Title tr.:** Materials

contributing to the knowledge of the Barents Sea fauna.

Contains discussion of the effect of the North Cape current on the rise of the temperature in Kola Inlet. Author analyzes a number of animal species (corals, echinoderms, polychaetes), known to have been rare or confined to deep waters earlier, and attributes their present abundance to this rise in temperature. The change is largely toward an enrichment with boreal elements. Bibliography (about 50 items). Summary in German.

**Copy seen:** DLC.

**26603. TANASICHUK, N. P.** O novykh i redkikh dlâ fauny Kol'skogo zaliva (Murman) formakh zhivotnykh. Akademiâ nauk SSSR. Doklady, seriâ A, 1927. no. 14, p. 213-18) **Title tr.:** On some new and rare animal forms of Kola Bay (Murman).

List of bottom animals collected by trawl in 1926-27. About 40 species are described including five fishes.

**Copy seen:** DLC.

**26604. TANASICHUK, N. P.** Zoologische Ergebnisse der Terminfahrt bis zum 75° n. Br. längs des Kola-Meridians (Barents-Meer) im August 1925. Akademiâ nauk SSSR. Doklady, seriâ A, 1927. no. 21, p. 359-63) **Title tr.:** Zoological results of the "term" trip to 75° N. lat. along the Kola meridian (Barents Sea) during August 1925.

Bottom temperature and samples taken at half-degree intervals along the 33°30' E. long. meridian are recorded. The list of bottom animals includes species hitherto not reported from this area or locations.

**Copy seen:** DLC.

**26605. TANDBERG, HANSSEN, EINAR.** Chubb-krateret, verdens største meteoritt-krater. (Naturen, 1952. Årg. 76, p. 98-104, illus., sketch map) **Title tr.:** Chubb crater, the world's largest meteorite crater.

Note of the discovery in 1950, of this crater on Ungava Peninsula at 61°17' N. 73°40' W., with some descriptive remarks on the region.

**Copy seen:** DGS.

**26606. TANNEHILL, IVAN RAY, 1890-** . Weather around the world. [2d ed.] Princeton, Princeton University Press, 1952. 212 p. illus.

Contains a popular account of the weather of the earth. Following sections on the various meteorological phenomena, the climate of the earth's main regions is

described, including the arctic areas in Asia (p. 117) and America (p. 136-39).

**Copy seen:** DLC.

**26607. TANNER, VÄINÖ, 1881-1948.** Ett arktiskt kulturproblem; några synpunkter. (Terra, 1932. 44:3, p. 167-74) **Title tr.:** A problem of arctic culture; some points of view.

Discussion of finds of harpoon points in 7th-12th century deposits on Kjelmo, an islet in the mouth of the river Potsjoki, apparently once inhabited by ancestors of Skolt Lapps; with remarks also on various other archeological finds of stone age artifacts in northern parts of Fennoscandia. Author relates these finds to the "Eskimo-type" culture observed by Nordenskiöld on the Vega expedition, and by others on Yamal Peninsula and other parts of the arctic coast. Tanner postulates some prehistoric connection between "Eskimo-type" culture and that of the progenitors of the Skolt Lapps.

**Copy seen:** DLC.

**26608. TANNER, VÄINÖ, 1881-1948.** The Köllaž' Jokk' Gaece esker once more. Helsinki, 1934. 8 p., illus. (Fennia, 60:2)

On the basis of four excavations into the Köllaž' Jokk' Gaece esker (69°25' N. 30°39' E.), the author states his belief that the folding and slipping were caused by the melting of "the ice remains under and at the sides of the former sub-aerial, glacio-fluvial river's deposits". The creation and formation of the esker's covering was shown clearly by the excavations to belong to the passive phase, contrary to De Geer's findings on the Stockholm eskers. The excavations and material found are described.

**Copy seen:** DLC.

**26609. TANNER, VÄINÖ, 1881-1948.** Patajärvi i Petsamo, en sjö med högeligen växlande vattenstånd. (Terra, 1932. 44:1, p. 76-84, illus., diags.) **Title tr.:** Patajärvi in Petsamo, a lake with highly fluctuating water level.

A description of this closed lake (69°39'15" N. 31° E.) and its surroundings is given. Dried up during the winter and the beginning of spring, it is quickly filled in May (?) and June by rain and spring water, and in September it begins to dry up again. The oscillation of the water level measured is 12.11 m., and may reach some 15 m. The water apparently leaves the lake by percolating through the gravel bottom.

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**26610. TANNER, VÄINÖ, 1881-1948.** Petsamon nikkelimalmit. (Teknillinen aikakauslehti, 1925, v. 15, no. 11, p. 533-37) *Title tr.:* Petsamo's nickel ores.

*Contains* a description of the work of the Finnish Geological Commission's four-man party in the Petsamo area in 1924, prospecting for new nickel pyrite ores. Electrical tests were used in places where the underlying rock was covered. Geological and chemical analysis are given of the ore bodies located.

*Copy seen:* DLC.

**26611. TANNER, VÄINÖ, 1881-1948.** The problem of the eskers; the esker-like gravel ridge of Čahpatoaiv, Lapland. Helsinki, 1932. 13 p. plates, map. (Finland. Geologiska kommissionen, Bulletin no. 99)

■ *Contains* an account of a geological and geomorphological study of the Čahpatoaiv ridge, northwestern Petsamotunturit (69°20' N. 30°20' E.). The results suggest that the gravel ridge represents an esker-like embryo formed by glacio-fluvial accumulation and subsequently re-formed by glacio-fluvial waters.

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**26612. TANNER, VÄINÖ, 1881-1948.** The problems of an esker, Kõllaž' Jokk' Gaece in Petsamo, Lapland. Helsinki, 1928. 32 p. illus., fold. map. (Fennia, v. 50, no. 38)

*Contains* report on an investigation of the Kõllaž' Jokk' Gaece esker (69°30' N. 30°40' E.) a comparatively simple special type of glacio-fluvial deposits. An analysis of the recession of inland ice; late glacial drainage and the physiography, etc., of the range are given. The author discards the possibility that this esker was formed by aggradation of the bed of a subglacial stream or at the mouth of a sub- or englacial ice tunnel. He suggests that the accumulations were successively deposited in a glacio-fluvial stream running along the sloping surface of the receding inland ice. Bibliographical footnotes.

*Copy seen:* DLC.

**26613. TANNER, VÄINÖ, 1881-1948.** The problems of the eskers, II. The Väçer esker, Inari, Lapland. (Finland. Geologiska kommission. Bulletin, 1930. no. 92, p. 33-39, illus., diags.)

Author shows that this esker was formed by a glacial river running super- or englacially, and not formed by the subglacial tunnel river, postulated in the theories of Strandmark and De Geer

(1897), though these theories are not necessarily invalidated. Tanner suggests that mode of formation of eskers cannot be expressed by a simple theory, that the genesis in each case must be determined separately.

*Copy seen:* DLC.

**26614. TANNER, VÄINÖ, 1881-1948.** The problems of the eskers, V. The Tälisvuom'-puoltsha esker in Enontekiö Lappmark. Helsinki, 1937. 28 p., 3 plates, illus., fold. map. (Fennia, 63:1)

*Contains* introductory remarks on the moving of the last ice sheet; areal description of the glacio-fluvial deposits and drainage features; areas of erosion and accumulation, esker chain, erosion valleys; results of morphological analysis of the glacio-fluvial area of this esker (about 69°5' N. 21°40' E.) and conclusion that this and esker formations studied previously by Tanner "have risen by sub-areal accumulation in valleys in the dead land ice margins, but that in no place has the sub-glacial esker theory proved itself applicable to esker formation in supra-aqueous areas." Bibliography (20 items).

*Copy seen:* DLC.

**26615. TANNER, VÄINÖ, 1881-1948.** Studier öfver kvartärsystemet i Fennoskandias nordliga delar, I. Till frågan om Ost-Finmarkens glaciation och nivåförändringar. Helsingfors, 1907. 177 p., 23 illus., diags., 6 plates (3 fold.) incl. maps. (Finland. Geologiska kommission. Bulletin, 3:18) *Title tr.:* Studies on the Quaternary system of the northern parts of Fennoscandia, I. On the glaciation and changes of level in eastern Finnmark.

*Contains* (on the basis of studies made during two field trips in 1905), a general outline of the petrology and geological formations and Pleistocene deposits (distribution of moraines and erratic blocks); the ancient littoral formations of the arctic sea and a descriptive list of subfossils of the Quaternary especially shells. Summary in French. Also published in Fennia, v. 23, no. 3, 1906. (see *Arctic Bibliography*, No. 17411). *Copy seen:* DLC.

**26616. TANNER, VÄINÖ, 1881-1948.** Studier öfver kvartärsystemet i Fennoskandias nordliga delar, II. Nya bidrag till frågan om Finnmarkens glaciation och nivåförändringar. Helsingfors, 1907. 127 p., illus., tables, diags., 4 plates (maps, diags.). (Finland. Geologiska kommission. Bulletin, 4:21).

Also published as: Fennia 26:1) **Title tr.:** Studies on the Quaternary system of the northern part of Fennoscandia, II. New investigations on the glaciation and changes of level of Finnmark.

**Contains** report of a study made in 1906 at Nordkap and Nordkyn: observations on the erosion by inland ice, striae, petrology and the distribution of moraines and erratic blocks, all suggesting a movement of glacial masses from south to north. Also, a description of the arctic sea, the altitude of its littoral lines; pumice stone thrown ashore by the Quaternary seas and subfossils of this era indicating changes in sea level, apparently caused by the (indirect) effect of climatic changes. In the final chapter on glaciation, evidence is brought forward against the existence of an interglacial epoch. Summary in French.

**Copy seen:** DLC.

**26617. TANNER, VÄINÖ, 1881-1948.** Studier öfver kvartärssystemet Fennoskandias nordliga delar, III. Om landisens rörelser och afsmältning i Finska Lappland och angränsande trakter. Helsingfors, 1915. ix, 667, 685-827 p., 138 text illus. incl. 12 plates (maps, incl. fold.). (Finland. Geologiska kommission. Bulletin, 7:38) **Title tr.:** Studies on the Quaternary system of the northern parts of Fennoscandia, III. The progression and the course of recession of the continental glacier in Finnish Lapland and surrounding regions.

**Contains** (as a third part of an extensive study on the Quaternary period in Finland and Scandinavia) sections on: evidence of the progression of the continental glacier; abrasion of the country rock; the probable progression of the continental glacier during the most ancient phases of glaciation; evidence on the course of recession of the continental glacier; hydrography of the glacial running waters; and directions of recession of the last continental glacier in the northern regions of Fennoscandia. Bibliography (800 items). General (66° 30'-70° 30' N.) and local topographic and geological maps. Summary in French, p. 685-800. **Copy seen:** DLC.

**26618. TANNER, VÄINÖ, 1881-1948.** Tenomuotka i Enontekis; en intermittent bifurkation på riksgränsen mot Norge. (Terra, 1936. 48:4, p. 198-206, map) **Title tr.:** Tenomuotka in Enontekis; an intermittent bifurcation on the boundary towards Norway.

A morphological study of the Tenomuotka (69° N. 22° E.) area in Finnish Lapland revealed that the river (Poroeno) had no less than three reversions of its course in the pre-glacial period. It also appears that at present some of the water flows towards Norway during high-water periods in spring. Summary in German.

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**26619. TANNER, VÄINÖ, 1881-1948.** Tre visten i Petsamo från den Epipaleolitiska stenåldern på Varangerjordens södra strand samt några supplerande iakttagelser beträffande de postglaciala nivåförändringarna. (Finland. Geologiska kommission. Bulletin, 1934. no. 104, p. 128-31) **Title tr.:** Three stations of the epipaleolithic period in Petsamo on the southern coast of the Varanger Fiord, with some supplementary observations on the change of the postglacial level.

Three stations discovered by the author in 1933 and belonging to a civilization called Komsa, of which deposits had been discovered previously and explored by Nummedal, are here stated to be younger than the Portlandian and consequently postglacial.—Author's summary. Summary in French.

**Copy seen:** DLC.

**26620. TANNER, VÄINÖ, 1881-1948.** Über die Verteilung einiger Vegetationslinien im finnländischen Enontekis-Lappland. Helsingfors, 1911. 9 p., fold. map. (Fennia, 27:1) **Title tr.:** On the distribution of some vegetation lines in the Finnish Enontekis-Lappland.

An explanation to the appended map (1:500,000) prepared by the author, discussing distribution of the various plant associations of this district (roughly between 68°-69°30' N. 21°-25° E.), both horizontally and according to elevation from sea level; their area, dividing lines, etc., are noted. **Copy seen:** DLC.

**26621. TANNER, VÄINÖ, 1881-1948.** Vattenståndsväxlingarna i sjön Patajärvi i Petsamo, iakttagelser somrarna 1932 och 1933. (Terra, 1934. 46:1, p. 69-82) **Title tr.:** Movements of the surface of Lake Pata in Petsamo, observations during the summers of 1932 and 1933.

Continuation of an earlier study (his: Patajärvi, q. v.) of this lake 69°39'15" N. 31° E. Dry in the winter, its water level reaches a maximum in June. The lake empties again in the fall by percolation through the gravelly

bottom. Summary in French by the author.

**Copy seen:** DLC.

**26622. TANNER, VÄINÖ, 1881-1948.** Zur geologischen Geschichte des Kilpisjärvi-Sees in Lappland. Helsingfors, 1907. 23 p., illus., maps, plates. (Finland. Geologiska kommission. Bulletin, 4:20) **Title tr.:** Contribution to the geological history of the lake Kilpisjärvi.

Brief geographic study, leading to the conclusion that this lake (69° N. 20°45' E.) is part of the chain of lakes of Swedish Lapland.

**Copy seen:** DLC.

**TANNER, VÄINÖ, 1881-1948, see also** Elbo, J. G. Lapp reindeer movements across frontier. 1952. No. 21628.

**26623. TAPPAN, HELEN.** Foraminifera from the arctic slope of Alaska; general introduction and part 1, Triassic Foraminifera. Washington, U. S. Govt. Print. Off., 1951. v., 20 p., 5 plates, 2 sketch maps. (U. S. Geological Survey. Professional paper 236-A.) Description of one new genus and 25 new species of "the first Triassic foraminiferal fauna discovered in the Western Hemisphere", from core samples and well cutting in U. S. Naval Petroleum Reserve no. 4 and adjacent region of North Alaska. Bibliography (32 items).

**Copy seen:** DGS.

**26624. TARANETS, ANATOLIĬ IĀ.** Description of three new species of the genus *Icelus* Kröyer (Pisces, Cottidae) from the Sea of Japan and from Okhotsk Sea. (Akademiā nauk SSSR. Comptes rendus (Doklady), 1936. nouv. ser., v. 4 (13), no. 3 (107), p. 149-52, illus.)

**Copy seen:** DLC.

**26625. TARANETS, ANATOLIĬ IĀ.** Morskie i presnovodnye promyslovye bogatstva DVK. (Akademiā nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1938. No. 30 (3), p. 143-88, illus., plate) **Title tr.:** Marine and fresh-water industrial resources of the Soviet Far East.

Contains a survey of the fisheries of the Far Eastern seas, including Okhotsk and Bering Seas, with statistical data on the distribution of the catch of various fishes; descriptive and economic notes on more than 20 species of commercial sea fishes, fresh-water fishes, cetaceans and other marine mammals, crustaceans, molluscs, holothurians and commercial sea plants

(Laminaria, Ahnfeltia and other algae); bibliography (40 items).

**Copy seen:** DLC; MH-A.

**26626. TARANETS, ANATOLIĬ IĀ.** Nekotorye izmeneniia v sistematike ryb sovetskogo Dal'nego Vostoka s zametkami ob ikh rasprostraneni. (Akademiā nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1935. no. 13, p. 89-101) **Title tr.:** Some changes in the classification of fishes of the Soviet Far East with notes on their distribution.

Contains critical notes on 40 fishes of Far Eastern seas, including Okhotsk and Bering Seas, with Russian and English descriptions of one new genus, one species and one subspecies; *Stichaeus punctatus pulcherrimus* n. subsp. is described from the Okhotsk and Bering Seas. Summary in English.

**Copy seen:** DLC; MH-Z.

**26627. TARANETS, ANATOLIĬ IĀ. and A. P. ANDRIĬASHEV.** O novoi rybe iz sem. Zoarcidae s litorali Komandorskikh ostrovov. (Akademiā nauk SSSR. Comptes rendus (Doklady), 1933. nouv. ser., v. 1, no. 4, p. 267-70, illus.) **Title tr.:** On a new fish of the family Zoarcidae from the littoral fauna of the Commander Islands. Summary in English.

**Copy seen:** DLC.

**26628. TARANETS, ANATOLIĬ IĀ. and A. P. ANDRIĬASHEV.** O novom rode i vide *Petroschmidia albonotata* (Zoarcidae, Pisces) iz Okhotskogo moriā. (Akademiā nauk SSSR. Comptes rendus (Doklady), 1934. nouv. ser., v. 2, no. 8, p. 506-512, illus.) **Title tr.:** On a new genus and species, *Petroschmidia albonotata* (Zoarcidae, Pisces), from the Okhotsk Sea.

Extract from a detailed paper on the genus *Lycodes*, based on material from various collections and expeditions of the Pacific Scientific Institute of Fisheries and the State Hydrological Institute, 1931-33. Translation in English, p. 509-512.

**Copy seen:** DLC.

**26629. TARANETS, ANATOLIĬ IĀ.** A short review of the genera related to *Stichaeus* from the Bering, Okhotsk and Japan Seas. (Akademiā nauk SSSR. Comptes rendus (Doklady), 1936. nouv. ser., v. 1 (10, no. 3 (80), p. 145-48)

New data on the taxonomy of the genera of blennies related to the genus *Stichaeus*, based on extensive studies of numerous collections. **Copy seen:** DLC.

**26630. TARASOV, N. I.** More zhivet. Pod redaktsiei L. A. Zenkevicha. Moskva, Voennoe izd-vo Ministerstva vooruzheni-nykh sil SSSR, 1949. 287 p., illus., 4 plates *Title tr.*: The sea is living. Edited by L. A. Zenkevich.

A popular account of the life in the sea. In addition to several sections on marine associations of a popular interest (corals and coral reefs, mangroves, etc.) it contains considerable information of a practical nature, viz. marine biology and navigation; dangerous marine creatures (poisonous as food or by contact; parasites; electric fish, etc.); useful marine forms, fishing, including arctic areas (p. 245-47, 249), whaling (arctic whaling p. 257-58, 264) marine birds (arctic, p. 103-104, 108-112, etc.), seaweeds and their use.

*Copy seen:* DLC.

**26631. TARASOV, V. V.** Bor'ba s interventami na Murmane v 1918-1920 gg. Leningrad, Leningradskoe gazetno-zhurnal'noe i knizhnoe izd-vo, 1948. 305 p., illus., port., maps *Title tr.*: The fight with the interventionists in Murman during the years 1918-1920.

Historical account of the struggle in the Murmansk region between communists and the foreign (British, French, American) troops intervening in support of White Russians; followed with an index of names, and list of sources (books, journals, archives).

*Copy seen:* DLC.

**26632. TAYLOR, ANDREW.** An introduction to the Northern Islands Region of the Canadian Arctic Archipelago, its historical and geographical setting. Montreal, 1950. xiii, 335 l. (typescript), 51 plates (maps). M. A. thesis, Univ. de Montréal.

A study of the islands\* north of Lancaster Sound - Barrow Strait - Viscount Melville Sound - McClure Strait (about 74°30' N.) with purpose (1) "to clarify the internal boundaries of the archipelago with a view towards the distinct segregation of the Northern Islands region from the more southerly Eastern and Western Arctic Regions; (2) to review the history of exploration . . . to indicate which of the original reference volumes concern themselves with any specific locality within the region; (3) to present the historical and geographical setting . . . as an introduction to the physical geography of this region."—*Introd.*

\*Recently named: Queen Elizabeth Islands.

Chapter 1 deals with political, natural and administrative boundaries, the Eastern and Western Arctic, the Northern Islands, their extent, global setting, and physiography; chap. 2: incentives for discovery and development of geographical thought on the Arctic; chap. 3-5, an analysis of British expeditions from Baffin's to McClintock's 1616-1859; chap. 6: seven expeditions to reach the North Pole from Hall's to Peary's, 1860-1909; chap. 7: twelve British and foreign, and (chap. 8) thirteen Canadian expeditions, 1875-1944, as they contribute to knowledge of this islands region. Bibliography (about 170 items); index.

*Copy seen:* CaMU; DLC (microfilm).

**26633. TAYLOR, BENJAMIN F.** A supplementary report to "A case study of icing in the Alaskan-Aleutian area (Oct. '43-Apr. '44)." 6 p. 17 figs., 6 tables. (U. S. Air forces, Weather central, 11th Weather region, Feb. 12, 1946)

"Charts plot aircraft icing and temperature at different altitudes along with the question: given a place, altitude and season, what is the probability of sufficient moisture being present to permit ice formation."—*Meteorological abstracts and bibliography*, Sept. 1950. v. 1, no. 9, p. 609.

*Copy seen:* DWB.

**26634. TAYLOR, BENJAMIN F., and O. N. SERBEIN.** Temperature and probability of icing in the Alaska-Aleutian area. (American Meteorological Society, Bulletin, Dec. 1946. v. 27, p. 580-88, fig., 6 tables)

"Figure shows incidence of aircraft icing with various temperatures in area. Six tables constructed to determine probability under specific conditions and positions of encountering visible moisture; of encountering aircraft ice regardless of visible moisture; and of icing with given temperature, place, altitude and season, plus visible moisture. Explanation of observed facts is given."—*Meteorological abstracts and bibliography*, Sept. 1950. v. 1, no. 9, p. 609. *Copy seen:* DWB.

**TAYLOR, C. B.,** see Kottke, F. J., & others. Effect hypoxia temperature regulation mice, dog & man. 1948. No. 23417.

**TAYLOR, FRANCIS HENRY LASKEY, 1900-**, see Kark, R. M., & others. Observations mobile arctic force. Health. 1948. No. 23138.

**26635. TAYLOR, GÉRALD.** L'optique et les expéditions polaires. Paris, Hermann & Cie, 1952. 24 p. illus., diagrs. *Title tr.*: Optics and polar expeditions.

Contains a republication of five papers which originally appeared in *L'Opticien lunetier et l'optique française*, June-Nov. 1951. They are based on experience of the P.-É. Victor French Polar Expeditions, 1948-50 of which the author participated in three summer missions and (as physician) one wintering on the Greenland icecap (approx. 71° N. 41' W. These papers deal with (1) the protection of eyes in polar regions; (2) atmospheric refraction and mirages; (3) rainbows and halos; (4) auroras and luminescence of the night sky; (5) utilization of optical apparatus. The first paper notes similarity of the problem of protecting eyes in polar regions and on mountain glaciers, and the dissimilarities due to the long duration of light and darkness during the arctic summer and winter. Experience on the icecap with various kinds and colors of glasses and goggles in the summer is described; requirements imposed by light and color of the landscape, winds, frost, etc.; (6) experience with glasses and goggles in the winter, especially during blizzards, also the use of masks is indicated. *Copy seen:* CaMAI.

**TAYLOR, GÉRALD,** *see also* Pluvinage, P., & G. Taylor. Mesures du champ électrique de l'atmosphère. 1950. No. 25127.

**TAYLOR, GÉRALD,** *see also* Victor, P. É., & others. Rapport prélim. 1949. 1950. No. 27104.

**TAYLOR, HENRY LONGSTREET,** *see* Henschel, A., & others. Some responses to hot & cold test meals. 1949. No. 22577.

**TAYLOR, P. F.,** *see* Polar record. Durham Univ. expd. Svartisen 1950. 1952. No. 25146.

**TAYLOR, R. M.,** *see* Burton, A. C., & R. M. Taylor. Study of adjustment peripheral vascular tone. 1940. No. 21041.

**26636. TAYLOR, RAYMOND FRANK, 1897-** . Alaska forest research problems and program. (*In:* Alaskan Science Conference . . . 1950. Selected papers, 1952. p. 11-19, map, table)

Contains remarks on the importance of forests in the Alaskan economy and

the forest research center established at Juneau 1948; followed by outline of research in the interior and southeastern Alaska; the climax forest; forest management; the effect of logging on salmon streams. Bibliography (13 items).

*Copy seen:* DAI; DLC

**26637. TAYLOR, RAYMOND FRANK, 1897-** , and R. M. GODMAN. Increment and mortality in Southeast Alaska second-growth stands. (*Journal of forestry*, Aug. 1950. v. 48, p. 329-31, tables)

Authors show that second-growth stands, half Sitka spruce and half hemlock, produce double the average volume of the climax forests in about eighty years; and data is given on diameter and volume growth and mortality.

*Copy seen:* DAI

**26638. TAYLOR, RAYMOND FRANK, 1897-** . Pocket guide to Alaska trees. Washington, D. C., U. S. Govt. Print. Off. 1950. 63 p., illus., map. (U. S. Dept. of Agriculture. Agriculture handbook no. 5, revision of Misc. pub. no. 5)

Descriptions of about 30 trees (names, leaves, bark, wood, growth, range, etc. and briefer notes on a dozen shrubs. "Three general types of vegetation occur: (1) spruce-birch forest of the interior; (2) non-forested tundra of arctic and Bering Sea slopes, and (3) dense hemlock spruce forests of the coast. Coastal forests—existing on the Pacific side of the Alaska Range from the southeastern tip to Kodiak—contain 70 per cent hemlock, 25 per cent spruce, 5 per cent cedar and others. Interior forests contain spruce and birch, and are bounded on the south by the Alaska Range, north and west by tundra and grasslands. The grasslands of the non-forested areas occur in the Alaska Peninsula, the Aleutian Islands, and the south slopes of the Alaska Range. Tundra covers the section bordering the Bering Sea and the Arctic Ocean north of Brooks Range . . ."—SIPRE. *Copy seen:* CaMAI; DLC

**26639. TAYLOR, THOMAS GRIFFITH, 1880-** . Canada; a study of cool continental environments and their effect on British and French settlement. [2d ed. rev.] London, Methuen; New York, Dutton [1950] xv, 526 p., illus., maps. (Methuen's advanced geographies) First published in 1947.

Extensive study based on 12 years residence and travel in the country including a survey of the Northwest

Territories, the Yukon, and the Alaska Highway. Section I, "Position, discovery and general physical features" includes discussion of the North in regard to its exploration, climate, soils and vegetation. Section II, "The natural regions and their varied environments", includes (p. 284-303) the tundra lands (Tuktuk on Port Brabant region, Keewatin, Southampton Island and Ungava, Hudson Strait and Bay, the Canadian Archipelago, Ellesmere, Baffin and Devon Islands, Sverdrup and Parry Islands, Victoria and Banks Islands, the seas north of the mainland). Section III, "The environments as related to men," includes reference to northern regions under: spread of settlement; fishing and the fur trade; forests, paper pulp and water-power; mining industry; communications, population problems, present and future. **Copy seen:** DLC.

**TAYLOR, THOMAS GRIFFITH, 1880-**, see also Amerikanski Sever; sbornik statel. 1950. No. 20180.

**TCHERNIAKOVSKY, P.,** see **CHERNIAKOVSKII, P.**

**TCHIRKOV, I. N.,** see **CHIRKOV, I. N.**

**26640. TEAL, JOHN J.** Greenland and the world around. (Foreign affairs, Oct. 1952. v. 31, no. 1, p. 128-41, map)

Contains general account of the island, its physical geography and climate, colonization and trade, history and conflicting sovereignty claims over the island; sketch of German stations and U. S. occupying forces there during World War II; post-war achievement of self government and economic developments in sheep-raising and fishing; Greenland's strategic importance on North American defense (U. S. bases at Grønnedal and Thule), and in commercial aviation (the new air service on route: Denmark-Thule-U. S.) Discussed in *New York Times*, Sept. 28, 1952.

**Copy seen:** DLC.

**26641. TEBEN'KOV, MIKHAIL DMITRIEVICH, d. 1872.** Atlas siëverozapadnykh beregov Ameriki ot Beringova proliva do mysa Korriëntes i ostrovov Aleutskikh c prisovokupleniem nfekotorykh miest Siëverovostochnago berega Azii. Sostavil kapitan Tebiën'kov. [Sanktpeterburg], 1852. 3 p., 1 l., 39 maps. —Gidrograficheskiia zamiechaniia k atlasu siëverozapadnykh beregov Ameri-

ki, ostrovov Aleutskikh i nfekotorykh drugikh miest Siëvernago Tikhogo okeana. Sanktpeterburg, v tipografii morskogo kadetskago korpusa, 1852. 2 p. l., 7, 148, 17, [2] p. **Title tr.:** Atlas of the northwest coast of America from Bering Strait to Cape Corrientes and the Aleutian Islands with the addition of a few parts of the northeast coast of Asia. Compiled by Captain Teben'kov.—Hydrographical notes to the atlas of the northwest coast of America, Aleutian Islands and some other places in the North Pacific Ocean.

Atlas contains 38 maps 20' x 25', viz: map of the general area (15°-67° N. 130° E.-100° W.) 20 maps of northwestern America; 10 maps of Alaska, Kodiak, the Aleutian Islands and adjacent regions; 7 maps of the northeast coast of Asia. These maps have inset maps of bays, harbors, channels, river mouths, etc.

Text ("Hydrographical notes") contains a list and description of earlier maps and atlases of the area and a history of the present undertaking which began in 1825 and was ready for print in 1845. This is followed by a description of each map (or group of maps of the same general region) which includes: an outline of the region and its extent; character of coast line and the coasts, islands, bays, capes, river mouths, etc., data when that region or locality was first sighted or visited; dates and brief account of succeeding landings, explorations, mappings, etc.; description of anchorages, currents and (occasionally) fauna and flora of region, etc.

**Copy seen:** DLC.

**26642. TEBEN'KOV, V. P.** K voprosu o vyävenii kamennougol'noi bazy na Kamchatke. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1938. no. 29 (2), p. 31-62, text map) **Title tr.:** On the coal base of Kamchatka Peninsula.

Contains data on the principal features of the geological structure of Kamchatka, touching briefly on stratigraphy and tectonics of Paleozoic, Mesozoic and Cenozoic formations; a stratigraphic table of Tertiary deposits with notes on faunistic and floristic accumulation; description of coal-bearing formations with a list of all known coal deposits and outcrops; a discussion of geological prospecting and investigation of anthracite deposits as a part of the third five-year plan; prepared

by the Geological section of the Far Eastern Branch of the Academy of Sciences U.S.S.R. Summary in English.

**Copied seen:** DLC; MH-A.

**26643. TEBEN'KOV, V. P., and N. A. SHVEDOV.** On the stratigraphy of the coal-bearing deposits of western Taimyr. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1941. nouv. ser., v. 31, no. 8, p. 801-802, table)

"Six different series in the lower Permian are characterized and correlated with the Kuznetsk basin and the Lower Tunguska region."—Geological Society of America, *Bibliography and index of geology*, 1941-42. v. 9, p. 289.

**Copied seen:** DLC.

**26644. TEED, PHILIP LITHERLAND.** The properties of metallic materials at low temperatures. London, Chapman and Hall, 1950. viii, 222 p. (Royal Aeronautical Society. Monographs on metallic materials, v. 1)

"Survey of existing knowledge regarding the nonferrous metals and their alloys, and the steels . . . Chapters are devoted to a consideration of the major mechanical properties of aluminium, iron, magnesium, copper, nickel, zinc, tin and lead and their alloys, about one-half being devoted to the plain carbon and alloy steels."—*Nature*, July 14, 1951. v. 168, p. 49.

**Copied seen:** DLC.

**26645. TEIS, R. V., and K. P. FLORENSKIĬ.** Isotopic composition of snow. (Akademiia nauk SSSR. Comptes rendus (Doklady). 1940. nouv. ser., v. 28, no. 1, p. 70-74, tables)

A determination of the part played by deuterium and heavy oxygen in the difference in density of water from freshly fallen snow shows a negative value for deuterium and an excess of heavy oxygen. The processes of thawing were found to be connected with an accumulation of deuterium and of light oxygen in the solid phase.

**Copied seen:** DLC.

**26646. TENGSTRÖM, JOHAN MARTIN JACOB av, 1821-1890.** Geometridae, Crambidae et Pyralidae faunae fennicae. (Societas pro fauna et flora fennica. Notiser ur förhandlingar, 1858-1859. Häft. 4 (ny serie 1) p. 145-54) **Title tr.:** Geometridae, Crambidae and Pyralidae in Finnish fauna.

*Contains* a systematic list of 149 species of small moths of the family Geometridae, 76 of Crambidae and three of Pyralidae; the localities for some of the species are

given in footnotes; includes at least three species from "Lapponia" and one from Kuusamo.

**Copied seen:** MH-Z.

**26647. TENGSTRÖM, JOHAN MARTIN JACOB av, 1821-1890.** Nykomlingar för Finska och Lappska fjärrilfaunan. (Societas pro fauna et flora fennica. Notiser ur förhandlingar, 1861. Häft. 6 (ny serie 3), p. 177-79) **Title tr.:** New-comers to the lepidopter fauna of Finland and Lapland.

*Contains* a systematic list of 40 species of lepidoptera new to the fauna of Finland, Lapland and Karelia, including eight species native to Finnish Lapland.

**Copied seen:** MH-Z.

**26648. TEPUKHOV, A. F.** Sledy bylogo prebyvaniia ugorskogo naroda v smezhnykh chastiakh Permskoi i Viatskoi gubernii i posleduiushchaja smena ego permskim i russkim narodami. (Ural'skoe obschestvo estestvoznaniia. Zapiski, 1924. t. 39, p. 81-112, map) **Title tr.:** Traces of the former occupation of adjoining parts of governments Perm and Viatka by the Ugrie people and their ultimate replacement by Permian and Russian population.

*Contains* historical data, toponymies and excerpts from family records showing that formerly the Ugrie people lived on the In'va and Kama Rivers and after 1579 were replaced by Permians and Russians; Ugrie names are most numerous in the districts of Moshevsk and Piattezhsk; Ugrie geographical names began to be replaced by Permian-Zyryan between 1579 and 1623; the Chuds were an Ugrie people.

**Copied seen:** MH.

**26649. TEPUOVA, E. N.** O migratsii lesnogo lemminga (*Myopus schisticolor vinogradovi* Sk. et. Rajev) v ralone srednego techeniia reki Un'i. (Zoologicheskii zhurnal, July-Aug. 1952. t. 31, no. 4, p. 642-43, table) **Title tr.:** On the migration of the wood lemming (*Myopus schisticolor vinogradovi* Sk. et. Rajev.) in the area of the middle course of the Un'ya.

*Contains* a description of lemmings found almost exclusively in stomachs of predatory fish and buzzards of the middle course of the Un'ya (61°45' N. 58°28' E.) left tributary of the upper Pechora. The animals were collected in midsummer of 1951; they have not been observed in this area for 15 years, and are believed to be on a migration to the Pechora.

**Copied seen:** DLC

**26650. TEPPO, HANNES.** Wortregister zu Otto Donners vergleichendem Wörterbuch der finnisch-ugrischen Sprachen. (Suomalais-ugrilainen seura. Toimituksia, 1936. v. 71, p. 121-252) *Title tr.:* Index to Otto Donner's Comparative dictionary of the Finno-Ugric languages.

*Contains* an index intended to facilitate the use of an extensive etymological dictionary by Donner, q. v., published more than a half-century earlier but still useful.  
*Copy seen:* DLC; InU.

**26651. TERLETŠKĬĬ, P. E.** Esheche raz k voprosu ob étnicheskom sostave naseleniia severo-zapadnoi chasti ikutskoi ASSR. (Sovetskaiâ étnografiâ, 1951, no. 1, p. 88-89) *Title tr.:* Further contribution on the ethnic composition of the northwestern part of the Yakut A.S.S.R.

*Contains* comparative notes on the inhabitants of Anadyr and Olenek regions according to the censuses of 1897 and 1926: the percentage of Yakuts increased from 14.1 to 33.3, and the percentage of Tungus decreased from 81.4 to 53.2; the percentage of Dolgans also increased from 2.4 to 5.5, and that of Russians from 2.1 to 8.0. The Yakuts are more prosperous and possess 12,170 head of reindeer as against only 3,375 among the more numerous Tungus population.  
*Copy seen:* DLC.

**TERROUX, K. GODWIN,** *see* Grant, R., & others. Atrial fibrillation in hypothermic dogs. 1949. No. 22188.

**26652. TETIĀEV, MIKHAIL MIKHĀĬLOVICH, 1882-** . Kontury problemy DVK kak geologicheskogo tselogo. Leningrad, Glav. red. geologo-razvedochnoi i geodezicheskoi lit-ry, 1934. 17 p., fold. maps. (Geologicheskie problemy Sot'uz). *Title tr.:* An outline of the problems of the Far Eastern Region as a geological unit.

A brief sketch of the mineral resources of area north of Vladivostok including the Okhotsk and Kamchatka regions and north to the arctic coast.

*Copy seen:* DLC.

**26653. TETIĀEV, MIKHAIL MIKHĀĬLOVICH, 1882-** . O nekotorykh osnovnykh voprosakh geologii Sibiri. (Moskovskoe obshchestvo ispytatelei prirody. Bûlleten', 1923-24. novaiâ seriâ, t. 32. Otdel. geol. t. 2, vyp. 3, 155-79, plate 2) *Title tr.:* On some fundamental questions on the geology of Siberia.

*Contains* a criticism of the geological theory of Edvard Suess, (q. v.) of the "ancient crown of Eurasia" ("âlteste Scheitel") and a statement of the author's concept of the geological structure of the central Siberian plateau, with data on the origin, history, geological age and direction of two great zones of folding. Summary in French.

*Copy seen:* DLC; MH-Z.

**26654. TH.** Sâ tar Helge Ingstad oss med på turen. (Norsk polar tidende, no. 1, Polarârboken 1951, p. 15-17, illus.) Text in Norwegian and English. *Title tr.:* With Helge Ingstad to the Nunamiut peoples.

*Contains* a note on a sojourn 1949-50, among Eskimos living in the interior of North Alaska near the Anaktuvuk Pass (ca. 68° N. 152° W.); reindeer migrated very late over the pass that year, and the author describes the hunger caused by this delay, etc. A biographical sketch (p. 14, text in Norwegian) precedes this article.  
*Copy seen:* CaMAI.

**26655. THALBITZER, WILLIAM CARL, 1873-** . The Eskimo numerals. (Suomalais-ugrilainen seura. Aikakauskirja, 1908. v. 25, no. 2, p. 1-25)

*Contains* names for numerals from 1 to 21 used by the Eskimos of East and West Greenland, Mackenzie River and southwest Alaska. The Eskimo numerals are new formations developed within the original language common to all Eskimo tribes, the oldest forms being those in the Alaskan dialects. Early linguistic relations between the Eskimos and the Finns, Samoyeds and Koryaks is possible, but there are no traces of non-Eskimo or pre-Eskimo words in their system of numerals or in the etymology of words used for its designation. Eskimos use their fingers and toes for counting, and can seldom grasp more than twenty, i. e. "a man counted to the end."

*Copy seen:* DLC; InU.

**26656. THALBITZER, WILLIAM CARL, 1873-** . Grønlandsk litteraturhistorie. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 2, p. 225-50, illus.) *Title tr.:* The history of Greenlandic literature.

Traces the development of Eskimo literature from its oral myths, folk tales, songs, and poetry, through a transition period (1721-1905) in which books and newspapers began to be produced, to the modern period characterized by

original Greenlandic writings in prose, poetry and drama. Bibliography (11 items). **Copy seen:** DSI-M.

**26657. THEIS, FRANK V.** Frostbite of extremities; clinical and pathologic considerations in its diagnosis and treatment. (Archives of physical therapy, Nov. 1940. v. 21, p. 663-70, 5 fig.)

*Contains* sections on the physiology of body heat, pathophysiology of frostbite, differential diagnosis, clinical observations, treatment. The author stresses the difficulties in differentiating arteriosclerosis but especially thromboangiitis obliterans from frostbite. Bibliography (12 items).

**Copy seen:** DLC.

**26658. THEISEN, EILERT.** Tanafjorden; en Finnmarksfjords oseanografi. Bergen, J. Grieg, 1946. 78 p., illus. (incl. map), 8 fold. plates (diagns.). (Norway. Fiskeridirektoratet. Skrifter, ser. havunder søkelser. Report on Norwegian fishery and marine investigations. v. 8, no. 7) **Title tr.:** Tana Fjord; oceanography of a Finnmark fiord.

Specialized, mathematical analysis of the dynamic oceanography of a northern Norwegian fiord, 70°30'-71° N. 27°45'-29° E., based on current, density, temperature, salinity, (some) phosphate, oxygen and pH data, June 10-11 and July 1934, June 1939 and 1923, comparative for 1878, 1927, 1930 and 1937; with note on three subsidiary fiords. Bibliography (23 items).

**Copy seen:** DI.

**THELLIER, ÉMILE**, see Cailleux, A., & É. Thellier. Sur la détermination de la couche de sol gelé. 1947. No. 21073.

**26659. THÉRIEN, MERCEDES.** Action synergique de l'acide ascorbique et du sang de rats exposés au froid sur le poids des surrénales de rats normaux. (Revue canadienne de biologie, Juillet 1952. v. 11, no. 2, p. 190-94, 2 tables) **Title tr.:** Synergistic action of ascorbic acid and of blood or rats exposed to cold upon the weight of the adrenals of normal rats.

*Contains* a report on experiments demonstrating that whole blood of rats exposed to cold (and therefore likely to contain a certain amount of ACTH) when injected into rats kept at normal temperature, causes a significant increase of their adrenals; if the recipient rats were pre-treated with ascorbic acid, the weight of the adrenals was further in-

creased following injection of blood from cooled animals. Bibliography (8 items). Summary in English. **Copy seen:** DLC.

**26660. THÉRIEN, MERCEDES, and L.-P. DUGAL.** Ascorbic acid and acclimatization of animals to cold environment. (Federation proceedings, Mar. 1949. v. 8, p. 156)

*Contains* an abstract of a study on guinea-pigs, which, contrary to rats, previously studied by the authors, are unable to synthesize ascorbic acid. As the environmental temperature fell, the guinea-pigs needed more and more of that vitamin. A retention of ascorbic acid during cold, a direct relation between its content in the adrenals and adaptability to low temperature, and a prevention of cold hypertrophy of the adrenals by ascorbic acid, were also observed.

**Copy seen:** DLC.

**26661. THÉRIEN, MERCEDES, and others.** Effets de l'acide ascorbique sur plusieurs variables biologiques normalement affectées par le froid. (Canadian journal of research, Dec. 1949. v. 27, sec. E, no. 6, p. 349-63, tables, diagrams) *Other authors:* J. Leblanc, O. Héroux, and L. P. Dugal. **Title tr.:** Effects of ascorbic acid on several biological variables normally affected by cold.

*Contains* a study on the effects of ascorbic acid administration to guinea pigs exposed to cold. The results showed: an inhibition of thymus atrophy normally occurring during cold and other stress; acceleration of thyroid enlargement; weight increase of the spleen; decrease of histamine content of the adrenal; increase of adrenal activity, as suggested by the cholesterol changes; prevention of initial hypotension due to cold or restitution to normal, if hypertension develops due to long cold exposure. Bibliography (15 items.)

**Copy seen:** DLC.

**26662. THÉRIEN, MERCEDES, and L.-P. DUGAL.** La nécessité de l'acide ascorbique pour l'acclimatation au froid du cobaye. (Revue canadienne de biologie, 1947. v. 6, p. 548-51) **Title tr.:** Need of ascorbic acid for acclimatization of guinea pigs to cold.

*Contains* a report on experiments which have demonstrated that resistance and adaptation to cold depend directly on the daily intake of vitamin C; drop in temperature resulted in a corresponding depletion of this vitamin; the amount of

food ingested during cold was the same in all groups. **Copy seen:** DLC.

**26663. THÉRIEN, MERCEDES, and L.-P. DUGAL.** Studies on the relations between ascorbic acid and adrenal function. (Revue canadienne de biologie, Mars 1952. v. 11, no. 1, p. 86)

Contains an abstract on experiments showing that in normal rats ascorbic acid does not prevent the action of ACTH on the adrenal; in fact, both seem to act synergistically on the adrenal weight; this was found by injecting blood of animals exposed to cold into controls, kept at room temperature, receiving or not receiving vitamin C. The latter does not replace the action of ACTH in hypophysectomized animals, but a synergistic action between ACTH and the vitamin upon adrenal weight seems to exist here too. **Copy seen:** DLC.

**THÉRIEN, MERCEDES, see also Dugal, L.-P., & M. Thérien.** Ascorbic acid & acclimatization to cold. 1947. No. 21558.

**THÉRIEN, MERCEDES, see also Dugal, L.-P., & M. Thérien.** Effets de l'acide glutamique résistance du rat. 1952. No. 21561.

**THÉRIEN, MERCEDES, see also Dugal, L.-P., & M. Thérien.** Influence ascorbic acid on adrenal wt. during cold. 1949. No. 21562.

**THÉRIEN, MERCEDES, see also Dugal, L.-P., & M. Thérien.** Relation entre acide ascorbique d. organes et acclimatation au froid cobaye. 1947. No. 21563.

**THÉRIEN, MERCEDES, see also Dugal, L.-P., & others.** Resistance extreme temperatures . . . different diets. 1945. No. 21564.

**26664. THESLEFF, ARTHUR.** Zigenarnes utbredning i Finland. Helsingfors, 1899. 29 p., fold. map, tables. (Geografiska föreningen i Finland. Meddelande, v. 4, no. 6) **Title tr.:** Distribution of gypsies in Finland.

Contains information on the birthplace, age, education, religion and migrations of Finland's gypsies (as far north as Inari). Their numbers are given as 1000 in 1837, 693 in 1864 and 1551 in 1895 and estimated as 2000 in 1899. Summary in German. **Copy seen:** DLC.

**26665. THIEL, E.** Die Eiszeit in Sibirien. Teil 1-3. (Erdkunde, 1951. Bd. 5,

Heft 1, p. 16-35, 4 charts) **Title tr.:** The ice age in Siberia, Pts. 1-3.

Contains a synthesis of the research, mostly Russian, on the extent and thickness of glaciation, and the plant and animal relationships in the northern U.S.S.R. during the Pleistocene. Charts show the limits of glaciation as a whole and local details. The maximum glaciated area was about 4000 sq. km., mean ice thickness only 500-800 m. Central Siberia was mainly ice-free; east Siberia had mountain glaciers. The analysis of the Quaternary climate is to follow in Pt. 5.—*Meteorological abstracts and bibliography*, Feb. 1952. v. 3, p. 129. Bibliography (84 items).

**Copy seen:** CaMAI; DLC.

**26666. THIENEMANN, AUGUST, 1882-** . Chironomiden aus Lappland, III. Beschreibung neuer Metamorphosen, mit einer Bestimmungstabelle der bisher bekannten *Metriocnemus*-larven und -puppen. (Stettiner entomologische Zeitung, 1937. Bd. 98, Heft 2, p. 165-85) **Title tr.:** Chironomidae from Lapland, III. Description of new metamorphoses and a table for the determination of hitherto known larvae and pupae of *Metriocnemus*.

Contains description of metamorphosis of 11 species of midges of the fam. Chironomidae, including *Ablabesmyia monilis connectens* n. var., native to Swedish Lapland (Abisko region), and a key to all known *Metriocnemus* larvae. Part II of this paper was published under the title *Orthocladius abiskoensis*, 1937, q. v.

**Copy seen:** MH-Z.

**26667. THIENEMANN, AUGUST, 1882-** , and F. KRÜGER. "*Orthocladius*" *abiskoensis* Edwards und *rubicundus* (Mg) zwei "Puppen-Species" der Chironomiden (Chironomiden aus Lappland, II). (Zoologischer Anzeiger, 1937. Bd. 117, no. 11-12, p. 257-67, illus.) **Title tr.:** "*Orthocladius*" *abiskoensis* Edwards and *rubicundus* (Mg), two pupa species of Chironomidae (Chironomidae from Lapland, II).

Contains a critical comparative study of two pupa species of midges, "*Orthocladius*" *abiskoensis*, native to Swedish Lapland, and *O. rubicundus*. A new name, *Lapporthocladius abiskoensis* is proposed for the first species which is held to belong to the genus *Rheorthocladius*. Part I was published as *Podonominae, eine neue Unterfamilie*, 1937, q. v., and

pt. III as *Chironomiden aus Lappland III*, 1937, q. v. **Copy seen:** MH-Z.

**26668. THIENEMANN, AUGUST, 1882-**. *Podonominae*, eine neue Unterfamilie der Chironomiden. (Chironomiden aus Lappland I). Mit einem Beitrag: F. W. Edwards, On the European Podonominae (adult stage). (Internationale Revue der gesamten Hydrobiologie und Hydrographie, 1937. Bd. 35, Heft 1-3, p. 65-112, illus.) **Title tr.:** *Podonominae*, a new subfamily of chironomids. (Chironomids from Lapland I). With a contribution by F. W. Edwards: On the European Podonominae (adult stage).

*Contains* the first results of a study of chironomid flies (gnats, midges) made at the research station at Abisko (68°20' N. 19° E. in northern Sweden), resulting in the establishment of a new subfamily of *Podonominae*. Includes sections on the metamorphosis of *Lasiodiamesa sphagnicola* and *L. serpentina*, with morphological data on the larval and pupal stages; the larvae and pupae of other podonomids; the characteristics of the newly established subfamily a key to the larvae and pupae of the subfamily, etc.

The contribution of F. W. Edwards (p. 99-107, in English) presents a morphology of the group *Podonomus* and a description of species belonging to it, including one new: *Lasodia mesa serpentina*, n. sp. **Bibliography** (33 items).

**Copy seen:** DLC.

**26669. THIENEMANN, AUGUST, 1882-**. Der Torneträsk (Schwedisch-Lappland) im Wechsel der Jahreszeiten. (Erläuterungen und Bemerkungen zu den folgenden Farbtafeln). (Zeitschrift für Erdkunde, Nov.-Dez. 1944. Jahrg. 12, p. 512-14, 6 col. plates) **Title tr.:** Torneträsk (Swedish Lapland) in the different seasons of the year. (Explanations and remarks on the colored plates).

Illustration with notes on the landscape and vegetation, May-Aug. on this lake lying at 68°22' N. 19°06' E.

**Copy seen:** DLC.

**THIENEMANN, AUGUST, 1882-**, see also de Lesse, H., & others. Expéd. polaires françaises, zoologie 5. 1951. No. 21396.

**THIENEMANN, AUGUST, 1882-**, see also Edwards, F. W. Chironomidae coll. by Thienemann. 1937. No. 21606.

**THOMAS, A. V.**, see Moore, J. D. D., & A. V. Thomas. Surface navigation high latitudes. 1951. No. 24467.

**26670. THOMAS, CAROLINE BEDELL, and T. A. WARTHIN.** The response of normal dogs and dogs with experimental hypertension to a standard cold stimulus. (American heart journal, Apr. 1940. v. 19, p. 316-29, 5 fig.)

*Contains* a study on normal dogs, dogs with "renal hypertension" and dogs with "hypertension from buffer nerve section". In the normal animals a standard local, cold stimulus was followed by a negative pressor response in 83.2 per cent increasing to 89.6 per cent as the animals became accustomed to the test. In the experimental groups, none was found to correspond with human "normal hyperreactors" nor with subjects suffering hypertension. **Bibliography** (13 items). **Copy seen:** DLC.

**26671. THOMAS, CHARLES W., 1903-**. Ice is where you find it. [1st ed.] Indianapolis, Bobbs-Merrill [1951] 378 p., illus.

*Contains* story of the exploits of the "Greenland Patrol" during World War II, American defense forces in Greenland and adjacent waters following the German occupation of Denmark in 1940. Chapters on the Sabine Island expedition 1943 to destroy a German weather reporting station there; the Jan Mayen expedition 1943, to set up a high-frequency direction finder station; the northeast Greenland operation, 1944: capture of German party on Little Koldeyway, capture of trawler *Enternestiene*; southwest Greenland operation: shore duty based on Narsarssuaq 1945-46; the country and people; the Antarctic expedition 1946-1947. Bering Sea patrol, 1948, with sketches of Alaska and the people who live there. Includes discussion throughout of *Wind* class ships and other vessels. Useful index. **Copy seen:** DLC.

**26672. THOMAS, HAROLD ALLEN, Jr.** Report on investigation of sewage treatment in low-temperature areas; for the Subcommittee on Waste Disposal. (National Research Council. Committee on Sanitary Engineering and Environment. Bulletin, 1950. p. 390-432, tables)

"The design of sewer installations was investigated for large communities in the low temperature area of Alaska and Canada. Factors influencing design include relatively high wind velocities; highly mineralized and cold water; slow biochemical reactions; and high temperatures in sewer lines leading to corrosion,

odor, and reduced treatability. Five major recommendations are proposed: (1) the retention of replicate sewage plant units of each type to reduce freezing hazards from prolonged detention periods, (2) covering or housing of all major units, (3) tank design to facilitate rapid and complete drainage, (4) design and installation of emergency heating units, and (5) determination of tank and filter capacities to allow for the adverse effect of low temperatures on treatment efficiencies and the rate of self-purification in receiving waters. An inexpensive portable heater for settling tanks is suggested to avoid density currents and degasification. A loading-performance relation is being developed to describe lowered efficiency behavior of trickling filters in the colder months."—SIPRE. Bibliography (47 items)

**Copy seen:** DGS.

**THOMAS, HAROLD ALLEN, Jr.,** see also Whittaker, H. A., & others. Disposal of garbage permafrost areas. 1949. No. 27355.

**26673. THOMAS, JOHN H.** *Cochlearia officinalis arctica* in the vicinity of Point Barrow, Alaska. (Rhodora, Feb. 1952. v. 54, no. 638, p. 40-42)

Contains information on the localities and plant associations where this form is found; local variations; occurrence of pure stands; seasonal growth and flowering. Bibliography (2 items).

**Copy seen:** DA.

**THOMAS, NEWELL,** see Sellers, E. A., & others. Acclimatization & survival rats in cold. 1951. No. 26021.

**26674. THOMAS, PAUL D.** Aleutian Islands Solar Eclipse Expedition, May 8, 1948. (U. S. Coast and Geodetic Survey. Journal, Apr. 1949. No. 2, p. 49-54, illus.)

Contains preliminary remarks on utilization of the solar eclipse in establishing a geodetic tie between two land areas separated by large water bodies, inaccessible mountain or desert regions; methods developed in solar eclipses of 1927, 1936 and 1943 in Europe. Then follows account of a cooperative undertaking by six U. S. Government agencies and the National Geographic Society to observe the annular eclipse of May 8, 1948 from seven sites on the Aleutian Islands with the object of tying the geodetic datums of Asia to the North American datum of 1927. Equipment,

instrumentation, personnel, sites, procedures of both aerial and ground observation parties are described. Mediocre results due to adverse weather conditions are anticipated from both parties (no data given) with only weak geodetic connections possible. **Copy seen:** DLC.

**26675. THOMAS, R. I.** Photographic operations of the Royal Canadian Air Force. (Arctic, Dec. 1950. v. 3, p. 150-65, illus.)

History of the organization, and its development of photographic techniques and instrumentation used in mapping the Canadian North, 1921-50; with some notes on the flight problems and extent of mapping achieved.

**Copy seen:** DA; DLC.

**26676. THOMAS, RHODA.** Bryophytes from the Iliamna Lake region, Alaska. (Bryologist, Dec. 1952. v. 55, no. 4, p. 287-89)

Contains a list of about 120 forms of mosses with a few liverworts and lichens collected chiefly around Newhalen (ca. 59°30' N., 155°15' W.) on the north shore of Lake Iliamna. The plants were determined by Elva Lawton and H. S. Conard.

**Copy seen:** DA.

**26677. THOMASSON, KUNO.** Contributions to the knowledge of the plankton in Scandinavian mountain lakes, 3. (Svensk botanisk tidskrift, 1952. Bd. 46, häft. 2, p. 223-41, illus., plates 1-3)

Contains physical and geographic data on 16 mountain lakes in Scandinavia, including five in Swedish Lapland; and taxonomic notes on 32 planktonic species including Latin diagnoses of *Staurastrum kebnekaisense* and *S. pseudolagerheimii* n. spp., native to Swedish Lapland, and at least seven other species from the same region.

**Copy seen:** MH-A.

**26678. THOMPSON, DOROTHY TOS-LEBE.** Two Eskimo geographers. (Journal of geography, Nov. 1951. v. 50, p. 342-47, 3 illus., incl. sketch map)

Account of the author's experience on an amateur gold prospecting trip near the headwaters of the Noatak River, an unfrequented part of Brooks Range in Northern Alaska; chance meeting with two young Eskimo hunters, who demonstrate a phenomenal memory of topographic features, and remarkable ability to read maps.

**Copy seen:** DLC.

**26679. THOMPSON, RAYMOND M.** Mineral occurrences in western Canada.

(American mineralogist, May-June 1950. v. 35, p. 451-55)

Notes on less common minerals, identified by x-ray powder photographs, including specimens from Yukon Territory and Mackenzie District.

*Copy seen:* DGS.

**26680. THOMPSON, RAYMOND M.** Mineral occurrences in Western Canada. (American mineralogist, May-June 1951. v. 36, p. 504-509)

Descriptions of 13 minerals, of which parkerite and rammelsbergite are reported from the region north of Great Slave Lake, and stephanite from near Mayo, Yukon Territory.

*Copy seen:* DGS.

**26681. THOMPSON, SETON HAYES, 1906-** Management of the marine resources of Alaska. (In: Alaskan Science Conference . . . 1950, Selected papers, 1952. p. 282-91)

Contains an account of resource management as applied to: salmon, halibut, razor clam, clam and Pribilof fur-seal; a history of each industry; its economic importance, conservation and restitution measures and their effects are presented. Bibliography (16 items).

*Copy seen:* DAI; DLC.

**26682. THOMPSON, WILLIAM FRANCIS, 1888-** The effect of fishing on stocks of halibut in the Pacific. Seattle, University of Washington Press, 1950. xii, 60 p., illus., tables, diagrs. (Publications of the Fisheries Research Institute, University of Washington).

Continuation of a discussion begun by the author in his, *Theory of the effect of fishing on the stock of halibut*, 1937, q. v. Statistics collected by the International Fisheries Commission from 1925 to 1948 form the basis for this study, a specialized, mathematical discussion of normal yield; catch per unit as an index to it; accumulated stock as it modifies the limit of this yield. Includes statistics for western and southern regions of Gulf of Alaska and changes in the yield; evaluation of term "catch per set of gear" and related terms; biological significance of limited productivity of accumulated stocks.

*Copy seen:* DI.

**26683. THOMPSON, WILLIAM FRANCIS, 1888-** Theory of the effect of fishing on the stock of halibut. Seattle, 1937. 22 p., diagrs. (International Fisheries Commission. Reports. No. 12)

The halibut fishery of the Gulf of Alaska and northeast Pacific has been

regulated since 1930, by the International Fisheries Commission (U.S. and Canada), during which time the stock of halibut has been rebuilt. Author discusses in simple, non-mathematical terms the theoretical basis of the results obtained. Bibliography (13 items).

*Copy seen:* DI.

**26684. THOMSEN, HELGE, 1904-** Hydrographical investigations in Baffin Bay. (International Council for the Study of the Sea. Annales biologiques, 1948, pub. 1949. v. 5, p. 22-24, diagrs.)

Two sections across the 68°45' N. and 68°15' N. lat. parallels, Aug. 30-Sept. 2, 1948 show, by vertical temperature-salinity diagrams, the northward influx of warmer West Greenland Current water on the east side and the southward flow of cold Baffin Land Current water on the west.

*Copy seen:* DF; DSI-M.

**26685. THOMSEN, HELGE, 1904-** Temperature and salinity in the permanent sections off the west coast of Greenland, 1948. (International Council for the Study of the Sea. Annales biologiques, 1948, pub. 1949. v. 5, p. 21-22, diagrs.)

Brief discussion of seasonal and annual variations shown from surface to bottom across Davis Strait between 61°-65° N.

*Copy seen:* DF; DSI-M.

**26686. THOMSEN, ROLF.** Ein Beitrag zur Postgeschichte Grönlands. (Polarforschung, 1948, pub. 1950. Bd. 2, Jahrg. 18, p. 41-42, i. e. p. 237-38) *Title tr:* Contribution to the history of Greenland's postal service.

Philatelic notes on special stamp issues for Thule and Greenland as a whole, the Greenland Post Office having been established in 1938.

*Copy seen:* DGS.

**26687. THOMSON, ANDREW, 1894-** Expansion of the Canadian Meteorological Service since 1939. (International Geodetic and Geophysical Union. Association of Meteorology, Oslo. Procès-verbaux, Nov. 1950. v. 3, p. 6-7)

"Increase in number of surface reporting stations (168), pilot balloon stations (64), development of radiosonde network (23 stations), teletype networks (19,000 miles), radio networks, arctic stations, new forecast stations, aviation meteorology service for land and transocean flying, research and training during the war are outlined."—*Meteorological abstracts and bibliography*, Oct. 1952. v. 3, no. 10, p. 1011.

*Copy seen:* DWB.

**26688. THOMSON, ANDREW, 1894-**, and **P. C. BREMNER**. Permafrost drilling and soil-temperature measurements at Resolute, Cornwallis Island, Canada. (Nature, Oct. 25, 1952. v. 170, no. 4330, p. 705-706)

"Shallow holes were drilled and ceramic resistance thermometers were inserted at depths of 8, 18, 39, and 60 in. [at this meteorological station 74°41' N. 94°55' W.]. Several deep holes were drilled to depths ranging from 6-453 ft. The overburden consisted of frozen gravel and was 6 ft. thick. The bedrock was limestone with occasional faults and cracks. Cables with temperature elements were inserted in each hole. Short-period fluctuations in temperature occurred at 8 in. depth and decreased with depth, becoming negligible at the 60-in. level. Seasonal temperature changes showed a lag increasing with depth and were perceptible almost to the 50-ft. level where a 6-mo. lag existed. The temperature remained constant for each level beyond 50 ft. The temperatures within 18 in. of the surface remained near the freezing point from Aug. 25 to Sept. 15 which indicates that the water in the active layers takes three weeks to freeze completely."—**SIPRE**. **Copy seen:** DGS; DLC.

**THOMSON, CARL GUSTAF**, see Lindroth, C. H. Über fünf Coleopteren. 1932. No. 23912.

**26689. THOMSON, JOHN W., Jr.** Some additional records of lichens from Alaska collected by Walter J. Eyerdam. (Bryologist, Mar. 1950. v. 53, no. 1, p. 9-15)

Report on 68 species collected during the summers of 1945 and 1947 on the Alaskan mainland and Kodiak Island. One of the species, *Thelidium areolatum* Thoms. sp. nov. is new. The substrates on which the lichens were found are given. **Copy seen:** DA.

**26690. THOMSON, JOHN W., Jr.** The species of *Peltigera* of North America north of Mexico. (American midland naturalist, July 1950. v. 44, no. 1, p. 1-68, maps)

A monographic study based on material from the major herbaria of the United States. The species and variations of this lichen genus (mostly arctic and subarctic in their distribution) are described in detail. Habitats, localities of finds, maps of distribution, scientific

terminology, etc., are given. Taxonomic keys and an alphabetic index of Latin names (with synonyms) are also included.

**Copy seen:** DA.

**26691. THOMSON, PAUL W.** Beitrag zur Waldgeschichte der Fischerhalbinsel in Lappland. (Beiträge zur Kunde Estlands, 1939. Naturwissenschaftliche Reihe, Bd. 1, p. 39-41) **Title tr.:** Contribution to the forest history of Rybachiy Peninsula in Lapland.

Note on the changes in vegetation during the geologic past, as shown by pollen studies in bogs.

**Copy seen:** DSI-M.

**THOMSON, R. P.**, see Brown, A. W. A., & others. Control adult mosquitoes & black flies DDT. 1951. No. 20947.

**26692. THOR, THORKEL SIGVALDT TORKELSON, 1856-1937.** Die Acarina der Kamtschatka-Expedition 1908-1909. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1926, pub. 1927. t. 27, vyp. 2-3, p. 131-74, plates 11-14) **Title tr.:** Acarina of the Kamchatka Expedition, 1908-1909.

Contains keys and a systematic enumeration of 25 species in 13 families and 16 genera of land and fresh-water Acarina collected by the Kamchatka Expedition of F. P. Rübushinskii, with extensive synonymy, list of Kamchatka localities, data on distribution and description of four new species and two varieties. **Copy seen:** DSI-M; MH-Z.

**26693. THOR, THORKEL SIGVALDT TORKELSON, 1856-1937.** Første undersøgelse af Norges Rhyncholophidae. Christiania, A. W. Brøgger, 1900. 11 p. plate. (Norske videnskaps-akademi, Oslo. Forhandlinger, 1900, no. 3) **Title tr.:** First investigation of Norwegian Rhyncholophidae.

Contains a list of nine Norwegian mites, with diagnoses of two new species, synonyms and data on distribution; includes *Smaris expalpis*, *Rhyncholopus regalis* and *R. vertex* native to Nordland province. **Copy seen:** MH-Z.

**26694. THOR, THORKEL SIGVALDT TORKELSON, 1856-1937.** Første undersøgelse af Norges Trombidiidae. Christiania, A. W. Brøgger, 1900. 18 p. plate. (Norske videnskaps-akademi, Oslo Forhandlinger, 1900, no. 2) **Title tr.:** First investigation of Norwegian Trombidiidae.

Contains a list of 11 species (three are

described as new) and one variety (new) of mites of the fam. Trombididae, with synonyms, descriptive notes and data on distribution; includes *Ottonia spinifera* and two other species of *Ottonia* and *Trombidium filipes*, all native to Nordland. **Copy seen:** MH-Z.

**26695. THOR, THORKEL SIGVALDT TORKELSON, 1856-1937.** Norwegische Bdellidae I, nebst Notizen über die Synonymie. (Zoologischer Anzeiger, 1905, pub. 1904. Bd. 28, no. 3, p. 69-79) **Title tr.:** Norwegian Bdellidae I, with notes on their synonymy.

Contains historical notes, a table for the determination of four genera of arachnids of the subfamily Bdellidae and a systematic list of eight Norwegian species, including six species native to northern provinces of Norway, with lists of synonyms for each species, arranged chronologically, and data on their total distribution. **Copy seen:** MH-Z.

**26696. THOR, THORKEL SIGVALDT TORKELSON, 1856-1937.** Vorläufige Revision der Gattung *Hygrobates* C. L. Koch 1837, mit phylogenetischen Bemerkungen. (Norsk entomologisk tidsskrift, 1926, pub. 1927. Bd. 2, hefte 3, p. 118-48, illus.) **Title tr.:** A preliminary revision of the genus *Hygrobates* C. L. Koch 1837, with phylogenetic notes.

Contains a critical study of aquatic mites of the genus *Hygrobates* (Acarina), taxonomic notes on a new genus *Schizobates* and a new subgen. *Diktyobates* and *Rhabdobates*, analytical tables for the determination of the species of three subgenera of *Hygrobates*, a study of the origin and relationship of various subgenera, descriptions of four new species and critical notes on 19 other species from various regions (Europe, Asia, Africa, S. America); includes a few species from northern Scandinavia and one (*H. albinus*) from Kamchatka Peninsula. **Copy seen:** DA; MH-Z.

**THORLAKSSON, GUDMUNDUR, see** Troelsen, J. C. Contributions to the geology NW. Greenland, Ellesmere Island & Axel Heiberg Island. 1950. No. 26801.

**26697. THULIN, GUSTAV.** Beiträge zur Kenntnis der Tardigradenfauna Schwedens. (Arkiv för zoologi, 1911. Bd. 7, no. 16, p. 1-60, illus.) **Title tr.:** Contributions to the knowledge of the Tardigrada fauna of Sweden.

Contains a critical revision of 40 Swedish species of water bears (Tardigrada) living on wet mosses and lichens, including 25 species (four new) from the Kiruna region of Swedish Lapland, with synonymy, comparative studies, table of Swedish and total distribution, a synopsis of the species and a bibliography (52 items).

**Copy seen:** DSI-M; MH-Z.

**THYGESON, PHILLIPS, see** Fritz, M. H., & P. Thygeson. Phlyctenular keratoconjunctivitis Alaskan Indians & Eskimos. 1951. No. 21969.

**TĪAN-SHANSKIĬ, A. P. S., see SEME. NOV.-TĪAN-SHANSKIĬ, ANDREĬ PETROVICH, 1866-1941.**

**26698. TIENSUU, LAURI.** Some records of mayflies (Ephemeroptera) from northern Norway. (Suomen hyönteistieteellinen aikakauskirja, 1937. 3:1, p. 44-45)

List, with locality, date and name of collector, of eight mayflies in the Entomological Museum of University of Helsinki, an insect not previously reported from northern Norway. Includes two new to the fauna of Norway.

**Copy seen:** DLC.

**26699. TIENSUU, LAURI.** A survey of the distribution of mayflies (Ephemera) in Finland. (Suomen hyönteistieteellinen aikakauskirja, 1939. 5:2, p. 97-124, illus., tables)

On the basis of his own collection and that of University of Helsinki, author gives descriptive notes on 56 species of this insect known in Finland, including 11 in the northern section.

**Copy seen:** DLC.

**26700. TIENSUU, LAURI.** Tietoja Suomesta tavatuista sukkakärpäsisistä (Muscidae). (Notulae entomologicae, 1933. v. 13, no. 3-4, p. 78-80) **Title tr.:** Notes on the bristle-flies encountered in Finland (Muscidae).

Contains a systematic list of 53 bristle-flies, occurring in Finland, including at least 30 species native to Finnish and Russian Lapland.

**Copy seen:** DLC; MH-Z.

**TIETZ, WILLIAM J., see** Strecker, R. L., & others. Notes mammals Alaska. 1952. No. 26500.

**26701. TIGERSTEDT, A. F.** Arboretum Mustila. Helsinki, 1922. 231 p., illus.

51 plates, tables. (Acta forestalia fennica, 24:2)

Data on 102 coniferous trees on which experiments were conducted at Mustila 60°44' N. lat., to determine species most suited to cold climate. Age, average height and length of topshoot, location, soil, and undergrowth are given for stand of each species. Preface and summary in English.

**Copy seen:** DLC.

**26702. TIKHOMIROV, BORIS A.** K filotsenogenezu nekotorykh rastitel'nykh formatsii arkticheskoi Evrazii. (Botanicheskii zhurnal SSSR. 1946. t. 31, no. 6, p. 27-41) tables. **Title tr.:** On the phylcoenogenesis of some vegetation formations of arctic Eurasia.

An analysis of the phylcoenogenesis of shrubs, dwarf shrubs, partly lichenous and mossy formations widely distributed over arctic Eurasia. Difficulty of this type of study is stressed. Summary in English.

**Copy seen:** DLC.

**26703. TIKHOMIROV, BORIS A.** K kharakteristike rastitel'nogo pokrova epokhi mamonta na Taymyre. (Botanicheskii zhurnal, 1950. t. 35, no. 5, p. 482-97) **Title tr.:** On characteristics of the vegetative cover of Taymyr Peninsula during the mammoth epoch.

Contains a description of principal plant formations of Taymyr Peninsula in northern Siberia; a list of flowering plant and moss remains collected near the skeleton of the mammoth, found there in 1949 by the Expedition of the Academy of Sciences U.S.S.R.; a discussion of the flora of that epoch and comparison with the present-day flora.

**Copy seen:** DLC; MH-Z.

**26704. TIKHOMIROV, BORIS A.** K proiskhozhdeniiu assotsiatsii kedrovogo stlanika (*Pinus pumila* Rgl.). (Akademiia nauk SSSR. Botanicheskii institut. Materialy po istorii flory i rastitel'nosti SSSR. 1946, vyp. 2, p. 491-537, illus., text map) **Title tr.:** On the origin of the dwarf pine (*Pinus pumila* Rgl.) associations.

Contains a study of the origin of the dwarf pine (*Pinus pumila*), one of the most characteristic plants of eastern Siberia and the Far East, with data on its geography and ecology, analysis of the flora of its association (*Silva fruticetiformis*); discussion of the origin of such associations in the Anadyr-Penzhina River regions in connection with the history of the vegetation of the north-

eastern Asia; a list of about 100 plants associated with the *P. pumila* and their distribution in the Anadyr, Penzhina, Kamchatka and Yakutsk-Okhotsk regions, p. 527-29, and a bibliography (53 items). Summary in English.

**Copy seen:** MH-A.

**26705. TIKHOMIROV, BORIS A.** O roli vetra v rasprostraneniі rastenii na kraĭnem severe. (Priroda, Aug. 1951. t. 40, no. 8, p. 23-25) **Title tr.:** On the role of the wind in distribution of plants in the extreme North.

"From five experimental plots, each 100 m<sup>2</sup>, a five cm. layer of snow was removed and the contents were examined for plant residues. The species to which belong the various seeds, leaves, stems, fruits, etc. that were found, are listed. The evidence indicates that the flora character of the far North is complemented by migrants from the south with the aid of southerly winds. [Especially significant was the find of needles of Siberian spruce (*Picea obovata*) 450-500 km. north of this tree's northern limits. The role of birds in northern dissemination is also discussed.]"—*Meteorological abstracts and bibliography*, Nov. 1952. v. 3, no. 11, p. 1158. Bibliography (4 items).

**Copy seen:** DLC; MH.

**26706. TIKHOMIROV, BORIS A., and G. I. GALAZIY.** Opredelenie vozrasta Sieversii ledĭanol (*Sieversia glacialis* R. Br.) i nekotorye voprosy prodolzhitel'nosti zhizni rastenii. (Botanicheskii zhurnal, 1952. t. 37, no. 3, p. 332-48, illus.) **Title tr.:** Determination of the age of *Sieversia glacialis* R. Br. and some problems of the length of the life of plants.

Contains data on the methods of the determination of the age of *Sieversia glacialis*, a flowering plant often found in far northern regions, a table for the determination of the age of various specimens of *S.*, and another table (no. 2) of the maximum ages of 16 species of shrubs and small shrubs from various arctic regions (Greenland, Vestspitsbergen and Kola Peninsula). Some discussion is given to the great importance of the plant age in the study of plant ecology.

**Copy seen:** MH-A.

**26707. TIKHOMIROV, BORIS A.** Znachenie mokhovogo pokrova v zhizni rastenii kraĭnego Severa. (Botanicheskii zhurnal, 1952. t. 37, no. 5, p. 629-38) **Title tr.:** The importance of moss cover in plant life of the far North.

Contains a study of the role of moss cover in the plant formations, and as an ecological factor in the development of soils and plant cover of northern regions; bibliography (about 65 items).

Copy seen: MH-A.

**TIKHOMIROV, BORIS A.**, see also Portenko, L. A., & others. Pervye rezultaty raskopok mamonta. 1951. No. 25257.

**26708. TIKHOMIROV, I. K.** O dolinnof tundre v gornyykh dolinakh Khibinskogo massiva. (Vsesoiuznoe geograficheskoe obshechestvo. Izvestiia, 1952. t. 84, vyp. 6, p. 564-72) **Title tr.:** On the valley tundra in the mountain valley of the Khibiny massif.

Contains a study near the town of Kirovsk (68° N. 34° E.) made where the valley tundras are followed vertically by a forest zone, topped by another tundra. Earlier work on the problem as well as the factors responsible for this peculiar location of the tundra are discussed. Geologico-historical conditions prevailing during and since the last glacial period are considered the main determining factors in this case. Bibliography (9 items).

Copy seen: DLC.

**26709. TIKHOMIROV, I. K.** Podzemnye tochki v Khibinskom massive. (Vsesoiuznoe geograficheskoe obshechestvo. Izvestiia, 1949. t. 81, no. 2, p. 251-52) **Title tr.:** Underground tremors in the Khibiny massif.

A report on a series of earthquakes which took place on Sept. 23, 1948. Their extent, duration and strength, as well as a comparison with earlier tremors, are given.

Copy seen: DLC.

**TIKHOMIROV, I. K.**, see also Akademiia nauk SSSR. Khibinskaiia gornaiia stantsiia. Khibinskaiia gornaiia stantsiia. 1934. No. 20100.

**26710. TIKHONOV, V.** Murmanskaiia sel'd; obraz zhizni i puti razvitiia promysla. (Bülleten' rybnogo khoziaistva, 1940. No. 7, p. 25-30, maps) **Title tr.:** The Murman herring; its way of life and the development of its fishery.

This account, based on several sources, deals with the areas, seasons and frequency of occurrence of this fish; its food and rate of growth; aspects of distinguishing the Murmansk herring from the Norwegian; the main fishing areas and their yield and the type of vessels and nets employed.

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**TIKHOOKEANSKIĬ NAUCHNO-ISLEDovATEL'SKIĬ INSTITUT RYBNOGO KHOZIAISTVA I OKEANOGRAFIĬ**, see Akademiia nauk SSSR. Zoologicheskii institut. Issled. dal'n. nevostochnykh morei SSSR II. 1960. No. 20102.

**26711. TIKHOVSKAIĬA, ZOĬA PETROVNA, 1889-** . Pervichnaia produktivnost' fukoidov v gubakh Vostochnogo Murmana. (Akademiia nauk SSSR. Murmanskaiia biologicheskaiia stantsiia. Dal'niye Zelenetsy. Trudy, 1948. t. 1, p. 164-88, illus., tables) **Title tr.:** Primary productivity of seaweeds of the genus *Fucus* in the bays of eastern Murman.

Four species of seaweeds of the genus *Fucus* were studied as to their growth and increase in mass, under different conditions of temperature, sunshine and nutrition; seasonal observations on their growth and loss of biomass were made and the primary role of these plants in the food-turnover of the sea is appraised. Bibliography (21 items).

Copy seen: DLC.

**26712. TIKHOVSKAIĬA, ZOĬA PETROVNA, 1889-** . Seasonal variations in the productivity and photosynthesis of *Laminaria saccharina* in the Dal'n. Zelenetz Bay of the Barents Sea. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1940. nouv. ser., v. 29, no. 2, p. 120-24, illus., graphs)

Photosynthesis and productivity of this most common seaweed of the Murman were found to be determined by light, temperature and the depth at which the plants grow.

Copy seen: DLC.

**26713. TIKHOVSKAIĬA, ZOĬA PETROVNA, 1889-** . Sezonnyye tsikly razvitiia fukoidov na vostochnom Murmane. (In: Pavlovskii, E. N., Pamiat' akad. S. A. Zernova, 1948, p. 94-107, illus., diagrs.) **Title tr.:** Seasonal cycles of development of fucoids on the eastern Murman coast.

Contains the results of a study of the dynamics of development of some olive-green marine algae (fucoids), including *Ascophyllum nodosum*, *Fucus serratus*, *F. vesiculosus* and *F. inflatus*. The work was carried out by the author in Dal'n. Zelenetskaya Bay (69° N. 07' N. 36' 03" E.) locale of the Murman Biological Station. Tables and diagrams show the fluctuation of the development's rate for

the seasons of the year and months, and for various parts of the plants.

*Copy seen:* MH-Z.

**26714. TIKHOVSKAĬA, ZOĬA PETROVNA, 1889-** . Vidovoĭ sostav morskikh vodoroslei v ralone Murmanskoi biologicheskoi stanfii. (Akademika nauk SSSR. Murmanskai biologicheskai stanfii. Dal'niye Zelentsy. Trudy, 1948. t. 1, p. 189-91) *Title tr.:* Species composition of seaweeds in the region of the Murman Biological Station.

The seaweeds of the area (vicinity of the station on Dal'niye Zelentsy 69°08' N. 36° E.) are listed according to taxonomic groups; each species is also marked according to its climatic-geographic position. *Copy seen:* DLC.

**26715. TIKKA, P. S.** Havaintoja kuusen esiintymisestä kehityksestä Pohjois-Suomen kuivissa kangasmetsissä. Helsinki, 1928. 83 p. 3 plates, diags., tables. (Silva fennica, v. 10) *Title tr.:* On the occurrence and development of the spruce in the dry heath-forests of northern Finland.

Contains a study of 20 observations plots in the forests of the Sodankylä district (67°-68° N. 26°-29° E.). It deals with the nature of plant cover and soil and their mutual relationship; abundance of cones and seed; development of young trees in various conditions of soil, moisture and vegetation; the effect of the crown and the root systems of the old trees on the growth of the young ones; development of the young trees; the spreading and ways of spreading of spruce on dry heaths; silvicultural aids, etc. Bibliography (about 75 items). Summary in German.

*Copy seen:* DLC.

**26716. TIKKA, P. S.** Perä-Pohjolan koivikoiden laadusta. Helsinki, 1950. 34 p., tables, diags. (Acta forestalia fennica, v. 57, no. 4) *Title tr.:* On the quality of birch stands of northern Finland.

Contains report of an investigation on the conditions of stems, branches and damage in these forests and the dependence of these conditions on the qualities of the stand and on each other. This is preceded by a qualitative technical review of birch forests, both pure ones and those mixed with coniferous trees and suggestion for improving the forests are given. Bibliography (17 items). Summary in German. *Copy seen:* DA.

**26717. TIKKA, P. S.** Perä-pohjolan koivikoiden laadusta. (Metsätaloudellinen aikakauslehti (Finska forstföreningen), 1947. v. 62, no. 3, p. 57-59) *Title tr.:* The condition of birch groves in northern Finland.

Contains data on the types of flaws from wood decay, found to be more common in birch than pine or spruce in two forest types in the Kemi, Tornio and Muonio River drainage areas in northern Finland. Suggestions are made for improving the quality of the birch stands.

*Copy seen:* DA.

**26718. TIKKA, P. S.** Perä-Pohjolan kuusikoiden laadusta. Helsinki, 1947. 64 p., illus., tables. (Acta forestalia fennica, 55:1) *Title tr.:* Types of spruce in the far North.

Author discusses factors affecting the treatment of spruce in the area 66° to 68° N. lat. in Finland; describes the area noting the structure and faults of the middle-aged and old trees. As result of his investigations he characterizes the spruce according to forest type, age group, size (diameter, length, density), quality (grade and faults of wood); and discusses these data in relation to types of stand. Finally he remarks on viewpoints to be considered in forest care. Bibliography (about 75 items). Summary in German, p. 60-64.

*Copy seen:* DLC.

**26719. TIKKA, P. S.** Puiden vikanaisuuksien merkitys ja huomioon ottaminen perä-pohjolan mäntymetsien hoidossa. Helsinki, 1940. 91 p., illus., tables, diags. (Acta forestalia fennica, 50:1) *Title tr.:* The significance of faults in trees and consideration of them in the care of pine forests in northern Finland.

Area studied extended from 66° to 68° N. lat.; data is given on forest development, natural developmental stages of pines, and the faults and structures of middle-aged and old natural pine forests.

*Copy seen:* DLC.

**26720. TIKKA, P. S.** Puiden vikanaisuuksien vaikutuksesta hakkuutulokseen. Helsinki, 1938. 44 p., tables. (Acta forestalia fennica, 46:5) *Title tr.:* The effect of faults in the wood on the quantity of felled pine and spruce in northern Finland.

Data on earlier studies, general measurements and health of pine; pine cutting in various types of forest, etc., dependence of amount and size of pine and spruce

wood on the forest type and tree faults; measures to increase the amount of useful wood. Bibliography (35 items). Summary in German, p. 39-44.

*Copy seen:* DLC.

**26721. TIKKA, P. S.** Puiden vikanaisuksista Pohjois-Suomen metsissä. Tilastollis-metsätutkimus. Helsinki, 1935. 371 p., plates, illus., fold. map, tables. (Acta forestalia fennica, 41:1) *Title tr.:* Defectiveness in trees in the forests of northern Finland. A statistical study in forest pathology.

Pine, spruce, and birch trees were studied in an area between 66°-68° N. lat. Data are given on the interior structure of the forests, the amounts of faulty trees; exterior (11 types) and interior (5 types) of flaws; dry rot and rot faults. The data are given for the pine, spruce, and birch separately and in comparison. Bibliography (about 300 items). Summary in German, p. 305-371.

*Copy seen:* DLC.

**26722. TIKKA, P. S.** Über die Stockfäule der Nadelwälder Nord-Suomis (-Finlands). Helsinki, 1934. 17 p., 2 plates, illus., tables. (Acta forestalia fennica, 40:11) *Title tr.:* On stock rot of the coniferous forests of northern Finland.

Two fungi cause the disease. Description is given of its gross appearance; percentage of trees affected and volume of timber damaged. Summary in Finnish.

*Copy seen:* DLC.

**TIMES, London,** see Blowitz, H. G. Behring Sea arbitration. 1893.

**26723. TIMOFEEVSKIĬ, P.** Zimnii sanitarnyi transport. (In: *Ėnsiklopedicheskiĭ slovar' voennoi meditsiny*, ed. E. I. Smirnov. Moskva, 1947. t. 2, col. 814-16, illus.) *Titles tr.:* Winter transport of wounded and sick. (In: *Encyclopedic dictionary of war medicine*).

Contains an outline of special conditions and requirements of winter transportation of wounded; types of vehicles (with illus. of litter-sled and ambulance sledge); keeping the injured and sick warm; bedding; heating. Bibliography (10 items).

*Copy seen:* DSG.

**26724. TIMONOV, V. V., and P. P. KUZ'MIN.** Approximate determination of the heat-balance of the White Sea. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1938. Nouv. ser., v. 21, no. 9, p. 440-44, tables)

Description and analysis of the factors making up the heat balance. Conclusions from this study throw considerable light on the problem of water exchange between the White and Barents Seas and their thermal conditions.

*Copy seen:* DLC.

**26725. TĪURDENEV, A. P.** Olenevodcheskaiā ferma kolkhoza imeni Stalina. (Sotsialisticheskoe zhivotnovodstvo, July 1950. v. 12, no. 7, p. 71-73) *Title tr.:* The reindeer farm of the kolkhoz "Stalin."

Contains a report about the farm located in the Chukotsk national district and maintained by a staff of Chukchis, Eskimos, Yukaghirs and others. Data are given on number of animals (over 5,000) their natural increase and income from them; the output of the fur workshop; income per member in cash and kind; pasture; diseases of the animals, training of attendants; specialists; cultural work, etc.

*Copy seen:* DLC.

**26726. TĪURIN, A. V.** Fenologicheskie nablūdeniia v lesakh SSSR i ikh lesokhozaiŭstvennoe ispol'zovanie. (Lesnoe khozaiŭstvo, June 1950. n. s. v. 3, no. 6, p. 13-20, chart, 7 tables) *Title tr.:* Phenological observations in the forests of the U.S.S.R. and their silvicultural importance.

"A detailed comparison of phenological data observed in the forests throughout the U.S.S.R. during 1948 and 1949. The data and discussion are arranged by regions [and include such typical northern tree species as birch, spruce, etc., but do not include specifically northern localities]. In all parts of the Soviet Union (even the Far East), vegetation appeared one or two weeks later in 1949 than in 1948."—*Meteorological abstracts and bibliography*, Oct. 1950. v. 1, no. 10, p. 636.

*Copy seen:* DLC.

**26727. TĪURIN, P. V.** K voprosu izucheniia aziatskoi korŭshki *Osmerus eperlanus dentex* Steindachner. (Krasnoyarsk, U.S.S.R. Vostochno-Sibirskaiā nauchnaiā rybokhozaiŭstvennaiā stanŭisiia. Trudy, 1924, t. 2, vyp. 1, p. 99-110, illus., tables) *Title tr.:* On the study of the Asiatic smelt, *Osmerus eperlanus dentex*, Steindachner.

Contains a description of this form, which lives in Yenisey Bay, together with data on spawning seasons, productivity, food, migration and rate of

growth. Its place in fisheries is discussed. Summary in German.

**Copy seen:** DLC.

**26728. TIÛRIN, P. V.** Tugun r. Eniseia; *Coregonus tugun* (Pallas) (v sistematičeskom i biologičeskom otnošeniiakh). (Krasnoyarsk, U.S.S.R. Vostochno-Sibirskaiā nauchnaiā rybokhoziāistvennaiā stanīsiā. Trudy, 1929, t. 3, vyp. 3, p. 1-104, illus., tables) **Title tr.:** The Yenisey River tugun, *Coregonus tugun* (Pallas) in its systematic and biological aspects.

**Contains** a comprehensive study of this species of whitefish, in two parts: (1) a detailed morphological and morphometric account; and (2) a biological study dealing with rate of growth, sexual maturity, reproduction and rate of reproduction, food and migrations, distribution and economic value. Supplement (p. 67-104) gives tables of morphometric data. Bibliography (21 items). Summary in English, p. 64-65.

**Copy seen:** DLC.

**26729. TJEDER, BO.** Additions to the list of Swedish Tipulidae. (Entomologisk tidskrift, 1947. Årg. 68, häft. 1-2, p. 29-31, illus.)

**Contains** a list of eight crane flies or daddy-long-legs (Tipulidae) added to the dipterous fauna of Sweden, including *Tipula staegei* found in Gällivare, Swedish Lapland, and *T. interserta* captured in Tjuonjattjakko, Torne Lappmark, and previously known from Ponoy, Kola Peninsula.

**Copy seen:** DA; MH-Z.

**26730. TJEDER, BO.** Beiträge zur Kenntnis Schwedischer Diptera Nematocera. 2-3. (Entomologisk tidskrift, 1936, Årg. 57, häft. 2-3, p. 132-35, illus.)

**Title tr.:** Contributions to the knowledge of Swedish Diptera Nematocera 2-3.

**Contains** (in no. 2) German diagnoses of *Erioptera forsslundi* and *Rhabdomasti lapponica* n. spp. native to Abisko and Nuolja regions, Swedish Lapland. In no. 3, is given a list of 13 species of Limnobiidae and Tipulidae, including *Tipula vafra* from Abisko, Torne Lappmark, new to the fauna of Sweden.

**Copy seen:** MH-Z.

**26731. TJEDER, BO.** The *Capnia*-species of Abisko (Plecoptera). (Entomologisk tidskrift, 1941. Årg. 62, häft. 3-4, p. 166-67)

**Contains** a comparative taxonomic study of two closely related plecopters

(stone flies), *Capnia atra* and *C. sparreschneideri*, native to the Abisko region of Swedish Lapland, with synonymy and critical notes. **Copy seen:** DA; MH-Z.

**26732. TJEDER, BO.** Catalogus insectorum Sueciae, I. Neuroptera et Mecoptera. (Opuscula entomologica, 1940. Bd. 5, häft. 2-4, p. 117-21) **Title tr.:** Insect catalog of Sweden, I. Neuroptera and Mecoptera.

**Contains** brief data on general geographic distribution of Neuroptera (lace-winged flies, ant lions, etc.) and Mecoptera (scorpion flies), and a table with distribution of 67 neuropterans and five mecopterans in 30 natural geographic regions of Sweden, including five subdivisions of Swedish Lapland. This, part I of *Insect catalog of Sweden*, is preceded by an introduction (inledning) by N. A. Kemner, p. 115, and a regional map of Sweden, p. 116. For further parts, see *Catalogus insectorum Sueciae I-XII*.

**Copy seen:** DA; MH-Z.

**26733. TJEDER, BO.** Catalogus Neuropterorum et Mecopterorum Norvegiae. (Norsk entomologisk tidsskrift, 1945. Bd. 7, hefte 3-4, p. 93-98) **Title tr.:** Catalog of Neuroptera and Mecoptera of Norway.

**Contains** a systematic list of 48 Norwegian species of Neuroptera and Mecoptera with tabulated data on their distribution in thirty-seven biogeographic regions of Norway, including Nordland, Troms and Finnmark.

**Copy seen:** DA; MH-Z.

**26734. TJEDER, BO.** Diptera Nematocera. Trichoptera, Neuroptera (In: Brinck, P.S.V., & K.G. Wingstrand, *Mountain fauna of Virihaure*, 1949-51, pt. 2, p. 100-101, 118-21)

**Contains** a list of ten species of dipters, 15 caddis flies (Trichoptera) and two ant lions, inhabiting the Virihaure region, with data on habitat, local and total distribution. A few species are recorded from Lule Lappmark, outside of the Virihaure region. **Copy seen:** MH-Z.

**26735. TJEDER, BO.** The identity of *Tipula cinereocincta* Lundstr. (Notulae entomologicae, 1948, pub. 1949. v. 28, no. 3-4, p. 86-89, illus.)

**Contains** a critical study of a crane fly, *Tipula cinereocincta* based on the examination of the type specimen at Zoological Museum at Helsinki, and comparison with description of that species by P. Lackschewitz in his *Genus Tipula in der*

*Arktis*, 1936, q. v., (Troms, Norway and Polar Ural). The species, native to Kuusamo, northern Finland, is re-described by the author.

**Copy seen:** MH-Z.

**26736. TJEDER, BO.** The male genitalia of *Trienodes unanimitis* Mc-Lachl. (Trichoptera, Leptoceridae). (Notulae entomologicae, 1937, v. 17, no. 4, p. 137-38, illus.)

Contains a description (supplementary to the original description of this caddis fly by McLachlan) of the male reproductive organs of *Trienodes unanimitis*, made from a specimen collected by R. Krogerus in Kuusamo, northern Finland.

**Copy seen:** DLC; MH-Z.

**26737. TJEDER, BO.** Några för Sverige nya Tipulider. (Entomologisk tidskrift, 1946. Årg. 67, häft. 1-2, p. 48-50) **Title tr.:** Tipulids new to Sweden.

Contains: Descriptive notes on 12 species of crane flies new to the fauna of Sweden, including *Austrolimnophila prolicicornis* found in the Abisko region of Torne Lappmark, previously known from Bohemia and Finland.

**Copy seen:** DA; MH-Z.

**26738. TJEDER, BO.** Norwegian Neuroptera and Mecoptera in the Bergens Museum. (Bergen, Norway. Museum, Aarbok; naturvidenskapelig rekke, 1944, pub. 1945, no. 1, p. 1-11, text map)

Contains a systematic list of 32 species of Norwegian neuropters and two species of mecopters in the zoological collection of the Bergen Museum, including at least 11 species native to northern provinces of Norway.

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**26739. TJEDER, BO.** Revision of the Norwegian Neuroptera and Mecoptera recorded by W. M. Schøyen. (Norsk entomologisk tidsskrift, 1943. Bd. 6, hefte 4-5, p. 133-39)

Contains a list of 32 species of neuropters and three of mecopters collected mostly by W. M. Schøyen (Siebke and Esmark) and deposited in the Zoological Museum at Oslo; with critical notes and (in some cases) re-determinations by the author; also a list of species added to Norwegian fauna since Schøyen's time.

**Copy seen:** MH-Z.

**26740. TJEDER, BO.** Revision of the Scandinavian Neuroptera (s. str.) and Mecoptera recorded by J. W. Zetterstedt, H. D. J. Wallengren, and others. (Opus-

scula entomologica, 1910. Bd. 5, häft. 2-4, p. 67-114)

Contains a critical revision of Scandinavian Neuroptera and Mecoptera, based on the study of collections of Zetterstedt, Wallengren and many other entomologists. A list (with their modern equivalents) is given of 277 specimens collected by Zetterstedt mostly in Lapland and deposited in the Museum at Lund. Collections of Wallengren (210 specimens) now in the Museum at Malmø, and of other entomologists include some species native to northern regions of Scandinavia. In all, 56 species of Neuroptera and five of Mecoptera represented in the old collections are dealt with in this article; a list of eleven species added now to the Swedish fauna is given on p. 110, also a scheme of the arrangement of fixed labels and specimens of Zetterstedt's Lapland collection, p. 112

**Copy seen:** DA; MH-Z.

**26741. TJEDER, BO.** Some thirty additions to the Swedish fauna. (Opuscula entomologica, 1941. Bd. 6, häft. 2-4, p. 56-63)

Contains descriptive notes on 30 species new to entomological fauna of Sweden, including four flies, *Limonia caledonica*, *Tipula simplicicornis*, *T. lacata* and *Chaetopteryx sahlbergi*, recorded for the first time from Swedish Lapland.

**Copy seen:** DA; MH-Z.

**26741A. TJEDER, BO.** The Swedish *Prionocera* (Dipt. Tipulidae). (Opuscula entomologica, 1948. Bd. 13, häft. 2, p. 75-80; häft. 3, p. 81-99, illus.)

Contains critical revision of ten Swedish species of the dipterous genus *Prionocera*, including four new species and three described earlier, native to Swedish Lapland.

**Copy seen:** DA; MH-Z.

**TJEDER, BO, see also** Forsslund, K. H., & B. Tjeder. Catalogus insectorum Sueciae II, Trichoptera. 1942. No. 21879.

**TKACHENKO, B. V., see** Moor, G. G., & B. V. Tkachenko. K voprosy o vozrastе Angarskoj serii. 1940. No. 24453.

**TKACHENKO, B. V., see also** Moor, G. G., & B. V. Tkachenko. Novye dannye o strat. angarskoj serii. 1941. No. 24456.

**26742. TKALICH, S. M.** Osnovnye dostizheniya za XV let sovetskoi vlasti v oblasti vyavleniya ugol'nykh me-

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storozhdenii DVK. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok, Vestnik, 1938. no. 30 (3), p. 19-30, text map) **Title tr.:** Principal achievement in study of coal deposits of Far Eastern Region during 15 years of Soviet power.

Contains data on the geography, principal characteristics of the stratigraphy and tectonics of coal-bearing deposits, quality and resources of anthracite and brown coals; the region of the study includes the western coast of Kamchatka Peninsula.

**Copy seen:** DLC; MH-A.

**TOBIESEN, SIEVERT, 1821-1873**, see Mohn, H. Bidrag til Øst-Ishavets klimatologi. 1875. No. 24414.

**TOENGES, ALBERT LOUIS, 1889-1951**, see Jolley, T. R., & others. Bituminous-coal Eska, Alaska. 1952. No. 23012.

**26743. TOIVONEN, YRJÖ HENRIK, 1890-**. Bernhard Munkácsi (1860-1937). (Finnisch-ugrische Forschungen. Anzeiger, 1939-40. Bd. 26, no. 1, p. 29-32)

Contains an account of the life and work of this outstanding Hungarian scholar, linguist and ethnologist. Among many other activities, he made an expedition to the Voguls in 1888 and published four volumes of Vogulian folklore and mythology: *Vogul népköltési gyűjtemény*, Budapest, 1892-96 (copy of v. 2, 4 at MH).

**Copy seen:** DLC; InU.

**26744. TOIVONEN, YRJÖ HENRIK, 1890-**. Pygmäen und Zugvögel; alte kosmologische Vorstellungen. (Finnisch-ugrische Forschungen, 1937. Bd. 24, p. 87-126, 4 illus.) **Title tr.:** The pygmies and birds of passage; an old cosmological conception.

Contains comparative data and discussion of a belief held by many Mediterranean, northern Eurasian and North American peoples. It and the stories which derive from it, concern a race of small men who dwell in the land where the migratory birds winter. It has been known (with variations) among the Greeks and Romans, Greenlanders (Olaus Magnus 1555), Finns (Ganander 1789), Lapps, Zyryans, Ostyaks, Voguls, Gil-yaks, Koryaks, Yenisey Ostyaks (i. e. Yeniseians or Kets) and North American Indians. Author concludes that this is a cosmogonic myth on the development

of the world, invented by peoples living beside a great ocean, whose concepts and traditions he explains. On the whole, it is one of the oldest cosmological myths, created by primitive man.

**Copy seen:** DLC; InU.

**26745. TOIVONEN, YRJÖ HENRIK, 1890-**. Spuren primitiver Seelenvorstellungen in der Sprache. (Finnisch-ugrische Forschungen, 1941. Bd. 27, p. 205-224) **Title tr.:** Traces of primitive conceptions of the soul in language.

According to the old beliefs of many peoples, certain psychical qualities of man (love, boldness, hate, etc.) are localized in the organs of the body, the living place of the soul: such as the heart, liver, kidney, blood, muscles, and others. Language gives numerous proofs of such beliefs. Examples are offered from the Vogulian, Lapp, Zyryan and other languages.

**Copy seen:** DLC; InU.

**26746. TOIVONEN, YRJÖ HENRIK, 1890-**. Türkische Lehnwörter im Ostjakischen. (Suomalais-ugrilainen seura. Aikakauskirja, 1943-44. v. 52, no. 6, p. 1-20) **Title tr.:** Turcic loanwords in the Ostyak language.

Contains linguistic remarks on the Ostyak words apparently of Turcic origin in the K. F. Karjalainen (q. v.) vocabulary which was subsequently published under Toivonen's editorship.

**Copy seen:** DLC; InU.

**26747. TOIVONEN, YRJÖ HENRIK, 1890-**. Ueber Alter und Entwicklung des Ackerbaus bei den finnisch-ugrischen Völkern. (Suomalais-ugrilainen seura. Toimituksia, 1928. no. 58, p. 229-40) **Title tr.:** On the age and development of agriculture among the Finno-Ugric peoples.

Contains a study based on etymologies of certain words. Conclusions: the Finno-Ugric peoples knew a very primitive form of agriculture already in their common Old Country and made a kind of porridge, probably from wheat. Their chief form of production, however, was hunting and fishing. There was progress in agriculture in the Finnish-Permian period with use of hoe, cultivation of rye, wheat, spelt, and barley, invention of the kiln, flail and sieve. In the Finnish-Volga period, the mortar and quern were introduced, and the people learned how to bake bread. The agricultural technique of Voguls, Ostyaks, and perhaps that of

Lapps, later degenerated, because they moved into regions unfavorable for agriculture. **Copy seen:** DLC; InU.

**26748. TOIVONEN, YRJÖ HENRIK, 1890-** . Wortgeschichtliche Streifzüge. (Finnisch-ugrische Forschungen, 1915. Bd. 15, p. 66-90) **Title tr.:** Forays in the history of words.

**Contains** among other things, historical explanations of the following words: Lapp *olojn* (swan), *lappad* (log), *duorgga* (twig), *čavddē* (hide, fur), *fidno* (brushwood), *vā'kas* (big wave); Ostyak *jerne* (gold).

**Copy seen:** DLC; InU.

**26749. TOIVONEN, YRJÖ HENRIK, 1890-** . Wortgeschichtliche Streifzüge. (Finnisch-ugrische Forschungen, 1925. Bd. 17, p. 280-228) **Title tr.:** Forays in the history of words.

**Contains** etymological explanations of some words: Ostyak *ovi* (door), *piri* (duck); Zyryan *das* (ten); Lapp *vagge* (lowland).

**Copy seen:** DLC; InU.

**26750. TOIVONEN, YRJÖ HENRIK, 1890-** . Wortgeschichtliche Streifzüge. (Finnisch-ugrische Forschungen, 1927. Bd. 18, p. 172-98) **Title tr.:** Forays in the history of words.

**Contains** etymological investigation of Lapp: *boavje* (family), *budda* (leather bag), *njablot* (to calf), *vakar* (last child of a woman), *vidda* (raft), *atta* (thing), *jolle* (fat); Zyryan: *gum* (stalk), *ru* (vapor); the Ostyak suffix *-met*.

**Copy seen:** DLC; InU.

**26751. TOIVONEN, YRJÖ HENRIK, 1890-** . Wortgeschichtliche Streifzüge. (Finnisch-ugrische Forschungen, 1929. Bd. 20, p. 136-44) **Title tr.:** Forays in the history of words.

**Contains** etymological notes on Lapp words: *wera* (hill), *vierro* (custom), *bale* (time); and Ostyak *pūzer* (twice).

**Copy seen:** DLC; InU.

**26752. TOIVONEN, YRJÖ HENRIK, 1890-** . Wortgeschichtliche Streifzüge. (Finnisch-ugrische Forschungen, 1933. Bd. 21, p. 108-128) **Title tr.:** Forays in the history of words.

**Contains** etymological notes on Lapp words: *juone* (path), *kibmahaddet* (to cook slowly), *gaeska* (skin), *pakke* (stomach of a squirrel); Zyryan words: *nar* (thin leather), *pommy* (to dam); Ostyak words: *jör* (hero), *lōyel* (bulb, beet), *tei* (ladle), *ompi* (opening of a nest in a hollow tree), *soi* (coal); Vogul *konka* (reindeer).

**Copy seen:** DLC; InU.

**26753. TOIVONEN, YRJÖ HENRIK, 1890-** . Wortgeschichtliche Streifzüge. (Finnisch-ugrische Forschungen, 1934. Bd. 22, p. 154-63) **Title tr.:** Forays in the history of words.

**Contains** etymological notes on Lapp *gidda* (spring), Vogul *susz* (pasture for deer), and Ostyak "little river."

**Copy seen:** DLC; InU.

**26754. TOIVONEN, YRJÖ HENRIK, 1890-** . Wortgeschichtliche Streifzüge. (Finnisch-ugrische Forschungen, 1944. Bd. 28, p. 91-98) **Title tr.:** Forays in the history of words.

The following Lapp words were investigated: *baska* (boat), *čacce* (water), *čuoikke* (ice-crust on pasture), and *soaino* (awl).

**Copy seen:** DLC; InU.

**26755. TOIVONEN, YRJÖ HENRIK, 1890-** . Zur Geschichte einiger finnisch-ugrischer Vokale. (Finnisch-ugrische Forschungen, 1946. Bd. 29, p. 160-67) **Title tr.:** On the history of some Finno-Ugric vowels.

**Contains** analysis of 24 examples of how the vowels are used in Vogulian.

**Copy seen:** DLC; InU.

**TOIVONEN, YRJÖ HENRIK, 1890-** , see also Karjalainen, K. F. Ostjakisches Wörterbuch. 1948. No. 23135.

**26756. TOKAREV, N. S.** Hidrogeologičeskoe ralonirovanie Vostochnosibirskogo kraja. Irkutsk, Vostochnosibirskoe kraevoe izd-vo, 1936. 37 p., fold. map. **Title tr.:** Hydrological planning of the East-Siberian District.

Brief treatise on ground water of the district (about 50'-60' N. 96°-124° E.) south of Yakutia and Krasnoyarskiy Kray. Information on climate, orohydrography; long-term frost; geology; ground-waters and their "natural" distribution in this district.

**Copy seen:** DLC.

**26757. TOKAREV, S. A.** Shamanstvo u jakutov v XVII v. (Sovetskaja étnografiā. Sbornik statei, 1939. t. 2, p. 88-103) **Title tr.:** Shamanism among the Yakuts in the 17th century.

**Contains** information from archival records relating to the period of the Russian conquest of Yakutia, viz the "Yassak" books, i. e. lists of persons paying taxes: the shamans (males only) comprised three per cent of the entire population and were of all (from lowest to highest) classes of society; their principal

function was the magic treatment of the sick, for which they were paid in livestock. Shamans often were accused of bewitching men and animals, and sometimes were killed; "white" shamans (those of beneficent spirits) are also indicated in these documents, as is some worship of guardian spirits of the livestock; modes of burial, cremation, are noted. It is suggested that the orthodox Russian population also had recourse to services of the Yakut shamans. Summary in French.

*Copy seen:* DLC.

**TOLBERT, GENE EDWARD, 1925-** . see White, M. G., & others. Preliminary summary uranium Alaska. 1952. No. 27349.

**26758. TOLL, EDUARD VASILIEVICH, Baron von, 1858-1903?** O rasprostranenií Kembrískikh i nizhesiluríiskikh otlozheníi v Sibiri. Predvaritel'noe soobshchenie. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1895. Ser. 2, chast' 33, p. 273-81) *Title tr.:* On the extent of Cambrian and Lower Silurian deposits in Siberia. Preliminary report.

*Contains* a study of Cambrian and Lower Silurian deposits in the basin of Olenek (71° N.), Lena, Nizhnyaya Tunguska and Podkamennaya Tunguska Rivers in Yakutia, based on the geological and paleontological collections of A. Chekanovskii and I. A. Lopatin, made during their exploration of these river basins in 1873-75. Toll discusses the age and extent of these deposits.

*Copy seen:* MH-Z.

**26759. TOLMACHEV, ALEKSANDR INNOKENT'EVICH, 1903-** . Eshche neskol'ko myslei o proiskhozhdenii taigi. (Vsesoiúznoe geograficheskoe obshchestvo. Izvestiia, 1949. t. 81, no. 1, p. 26-35) *Title tr.:* Further thoughts on the origin of the taiga.

The author proposes a theory according to which the taiga was originally a floristic complex of the mountains (mountain-taiga) and secondarily changed into the taiga of the plains. This idea is contrasted with older ones, according to which the taiga is supposed to represent a floristic type originating in the North. Bibliography (13 items).

*Copy seen:* DLC.

**26760. TOLMACHEV, ALEKSANDR INNOKENT'EVICH, 1903-** . Iz noveshikh issledovanií Novoí Zemli. Sovet-

skafu Aziia, 1927. god 3, no. 1, p. 88-100)

*Title tr.:* From the newest explorations of Novaya Zemlya.

*Contains* account of the expeditions made to these islands during 1921-25 for hydrologic, biological and meteorological explorations; further details about the author's own stay in 1923-24 at the Matochkin Shar radio station, and observations made on meteorology, earth magnetism, fauna and flora.

*Copy seen:* DLC.

**26761. TOLMACHEV, ALEKSANDR INNOKENT'EVICH, 1903-** . K avifaune ostrova Kolgueva. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik 1927, pub. 1928. t. 28, vyp. 3, p. 355-65) *Title tr.:* On the avifauna of Kolguev Island.

*Contains* ornithological observations made by the author on Kolguev Island, during the Expedition of the Institute of the North in 1925, including data on nesting, life habits and local distribution of 30 species of birds.

*Copy seen:* DSI-M; MH-Z.

**26762. TOLMACHEV, ALEKSANDR INNOKENT'EVICH, 1903-** . Kritische Bemerkungen über einige wenig bekannten Blütenpflanzen Nowaja Semlija's. (Akademiia nauk SSSR. Doklady, seriia A, 1927. no. 6, p. 99-102) *Title tr.:* Critical remarks on some little known flowering plants of Novaya Zemlya.

*Contains* notes on six species.

*Copy seen:* DLC.

**26763. TOLMACHEV, ALEKSANDR INNOKENT'EVICH, 1903-** . Nizov'ia Eniseia, kak fito-geograficheskafu granitsa. (Akademiia nauk SSSR. Doklady, seriia A, 1928. no. 9, p. 143-47) *Title tr.:* The lower Yenisey as a phytogeographic boundary.

*Copy seen:* DLC.

**26764. TOLMACHEV, ALEKSANDR INNOKENT'EVICH, 1903-** . O nekotorykh zakonomernostfakh raspredeleniia rastitel'nykh soobshchestv v Arktike. (Botanicheskii zhurnal SSSR, 1939. t. 24, no. 5-6, p. 504-517, illus.) *Title tr.:* On some regularities in the distribution of plant associations in the Arctic.

*Analysis* of some factors, of a physico-geographical nature, which determine the change in composition of the arctic flora. Plant relations, response to extreme and gradual changes of conditions

and the role of specific, internal factors in it, are discussed. **Copy seen:** DLC.

**26765. TOLMACHEV, ALEKSANDR INNOKENT'EVICH, 1903-** . O neskol'kikh neozhidannykh floristicheskikh nakhodkakh v tsentral'noi chasti Taymyrskogo poluostrova. (Akademiia nauk SSSR. Doklady, seriia A, 1930. no. 5, p. 107-111) **Title tr.:** On several unexpected floristic finds in the central region of Taymyr Peninsula.

Six species, new for the area are described. **Copy seen:** DLC.

**26766. TOLMACHEV, ALEKSANDR INNOKENT'EVICH, 1903-** . On novom vide *Draba* iz severnoi Sibiri. (Akademiia nauk SSSR. Doklady, seriia A, 1930. no. 7, p. 173-74, illus.) **Title tr.:** A new species of *Draba* from northern Siberia.

Description of an herb *Draba prozorovskii* A. Tolm. collected from the right bank of Khatanga River in 1908.

**Copy seen:** DLC.

**26767. TOLMACHEV, ALEKSANDR INNOKENT'EVICH, 1903-** . Ob oledenienii Taymyra. (Akademiia nauk SSSR. Izvestiia, seriia VII. Otdelenie matematicheskikh i estestvennykh nauk, 1931, no. 1, p. 125-40, illus., text maps) **Title tr.:** On the glaciation of Taymyr Peninsula.

Contains a general description of the evidence of the glacial erosion on Taymyr Peninsula in Siberia as observed by the author; a discussion of the center, limits and expansion of the glaciation area of Taymyr and comparison with the similar area of the Khatanga-Yenisey plateau.

**Copy seen:** DLC; MH.

**26768. TOLMACHEV, ALEKSANDR INNOKENT'EVICH, 1903-** . Taymyrskaiia ekspeditsiia Akademii nauk SSSR. (Akademiia nauk SSSR. Doklady, seriia A, 1929. no. 8, p. 183-86, map) **Title tr.:** The Taymyr Expedition of the Academy of Sciences U.S.S.R.

Itinerary and brief outline of activities of this expedition led by the author to explore inland areas of the Taymyr Peninsula in 1928. See also *Arctic Bibliography* No. 17828 for similar account in German. **Copy seen:** DLC.

**26769. TOLONEN, K. J.** Kyläteiden suunnittelussa huomioonotettavia näkökohtia. (Maanmittaus, 1940. v. 15, no. 1-2, p. 1-20, illus., diags.) **Title tr.:**

Things to consider in building country roads.

Contains discussion on the planning of location, curves, rises, visibility, junctions and costs of roads. Of interest in relation to northern and far northern areas, are the earliest sections on road width, frost-proof instruction features in various soils, culverts and on construction materials. **Copy seen:** DLC.

**26770. TOLSTIKHIN, N. I.** K geologii Arkhangel'skoi i Vologodskoi gubernii. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1923-24. novaia seriia, t. 32. Otdel. geol. t. 2, vyp. 3, p. 279-95, text map) **Title tr.:** On geology of Arkhangel'sk and Vologda provinces.

Contains the results of a geological survey made by the author in 1921-23, of the northern section of Arkhangel'sk and Vologda, chiefly the watershed between Onega and Northern Dvina Rivers; with data on petrographic formations, Paleozoic sediment deposits, post-Tertiary, glacial, interglacial and post-glacial formations, tectonics and stratigraphy of the region. Summary in German.

**Copy seen:** DLC; MH-Z.

**26771. TOLSTIKHIN, NESTOR IVAN. OVICH, 1896-** . Podzemnye vody merzloz zony litosfery. Moskva-Leningrad, Gos. izd-vo geol. liter., 1941. 201, [3], p. illus., text maps, diags. **Title tr.:** Underground waters of the frozen zone of the lithosphere.

"General information is provided on permafrost, climate, flora, and fauna of the earth. Subterranean waters consist of supra-permafrost waters, inner-permafrost waters, and sub-permafrost waters, and may be classified according to the solid or liquid phase with further subdivisions and subgroups. Subterranean waters affect the formation of ground ice and may emerge on the earth's surface in the form of springs, icing, and hydro-laccolites."—SIPRE.

**Contents tr.:** pt. 1 (p. 4-58). Introduction, General information on the frozen-ground zone, history of investigation, the distribution of frozen ground, climate, flora and fauna, frozen soil zone. Pt. 2 (p. 59-70). Solid phase of underground waters: classification of ground ice, conditions of its formation, relation to surface and ground waters: Pt. 3. (p. 71-179). Liquid phase of ground waters: principles of classification (various types), conditions for the emergence of ground waters to the surface, a scheme of classi-

fication of ground waters: Pt. 4. (p. 180-94). Surface waters: rivers, lakes. Bibliography (189 items).

**Copy seen:** DLC; MH.

**26772. TOLVANEN, VILJO.** Kuivien kankaitten luonnonoloista. (Terra, 1915. 27, p. 183-212) **Title tr.:** The natural conditions in dry heath woodlands.

**Contains** data on dry lichen heath which occurs in the far North and, to a lesser extent the dry ling heath common farther south, the author being chiefly concerned with "poronjäkäla" (lichens eaten by reindeer). He describes reindeer-lichen-heath forests and their soil; natural renewal of trees; effect of moisture on the flora; effect of reindeer on the trees; and the beginning and development of lichenous woodland. Bibliography (30 items).

**Copy seen:** DLC.

**26773. TOMANTERÄ, E. A.** Kemijärven sudenkorennot. Helsinki, 1943. 20 p. (Suomalainen eläin- ja kasvitieteellinen seura Vanamo. Eläintieteellisiä Julkaisuja. Annales zoologici, v. 9, no. 6) **Title tr.:** The dragon flies of the district of Kemijärvi.

**Contains** results of a study of dragonflies in the Kemi River region in Finland 66°22'-67°02' N. lat.; account is given of their living habit, flying periods, occurrence, and numbers in various (field, river, and swamp) habitats. Species encountered in each habitat are listed; 17 species are described with field notes. Summary in German. **Copy seen:** DLC.

**26774. TOMILIN, A. G.** The age of whales as determined from their baleen apparatus. (Akademiä nauk SSSR. Comptes rendus (Doklady), 1945. nouv. ser., v. 49, no. 6, p. 460-63, diagr., table)

Approximate age is determinable from the "steps" on the surface of the baleen plates, especially from the highest plates in which the "annual waves" (or "steps") are best pronounced. **Copy seen:** DLC.

**26775. TOMILIN, A. G.** Butylkonos i melkie polosatiki Dal'nego Vostoka. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1938. Otdel. biol. novaiä seriä. t. 47, vyp. 3, p. 210-217) **Title tr.:** The bottlenose and small whale-bone whale of the Far East.

**Contains** descriptive notes and data on feeding habits, migration and geographic distribution of bottlenose whale (*Hyperoodon rostratus*) and two species of whalebone whales, *Balaenoptera borealis* and

*B. acutorostrata*, based on the author's observations during his trips on the whaler *Aleut* in the Bering Sea in 1933-36; bibliography (19 items). Summary in French. **Copy seen:** DLC; MH-Z.

**26776. TOMILIN, A. G.** K voprosu o laktatsii i pitanii u kitoobraznykh. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1946. Otdel. biol. novaiä seriä, t. 51, vyp. 4-5, p. 44-57) **Title tr.:** Lactation and nutrition of cetaceans.

**Contains** a study of lactation and nutrition of five species of whales, *Balaenoptera physalus*, *B. musculus*, *Megaptera nodosa*, *Rhachianectus glaucus* and *Delphinapterus leucas dorofeevi*, based partly on material brought back from Bering and Okhotsk Seas by the whaler *Aleut*; with tabulated data on weight of young animals, growth rate, chemical analyses of milk, feeding habits as well as caloric value and quantity of food consumed; bibliography (34 items). Summary in English.

**Copy seen:** MH-A; MH-Z.

**26777. TOMILIN, A. G.** Kashalot Kamchatskogo moriä. (Zoologicheskii zhurnal, 1936. t. 15, vyp. 3, p. 483-519, illus., text map) **Title tr.:** The cachalot of Kamchatka Sea.

**Contains** a morphological description of the sperm whale, *Physeter macrocephalus*, data on its catch in the Far East, including Kamchatka waters and Bering Sea, for the years 1933-35; structure and age composition of schools of this whale (table 3), its food and behavior (table 4), migration (table 7), geographic distribution (table 8); the hunting of sperm whales and the animals' behavior; bibliography (41 items). Summary in German.

**Copy seen:** DLC; MH-Z.

**26778. TOMILIN, A. G.** Kity Dal'nego Vostoka. (Moskva. Universitet. Uchenye zapiski, 1937. vyp. 13. Zoologičeskii, p. 119-67, illus.) **Title tr.:** The whales of the Far East.

**Contains** the results of the author's observations on morphology and biology (reproduction, feeding and migration) of eight species of whales, made during a trip aboard the whaler *Aleut* in Kamchatka waters, Bering and Chukchi Seas in 1934. Includes tables on the distribution of the catch as to the place and time, subdivided according to size and sex. The migration of whales is discussed in

detail; bibliography (38 items). Summary in English. **Copy seen:** MH-Z.

**26779. TOMILIN, A. G.** Lactation and nutrition in cetaceans. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1946. nouv. ser., v. 52, no. 3, p. 277-79, table)

Analysis of milk and/or food consumption in five cetaceans and its relation to energy-yield and growth. Nutritive value of milk, mode and intervals of suckling, etc., are given.

**Copy seen:** DLC.

**26780. TOMLIN, A. G.** Materinskii instinkt i polovaiia priviazannost' u kitov. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1935. Otdel. biol. novaiia seriia, t. 44, vyp. 7-8, p. 351-61) **Title tr.:** The maternal instinct and sexual attachment in whales.

Contains the results of observations carried out in Bering and Chukchi Seas on the mating, sexual attachment and maternal instinct in different species of whales. The data was gathered to work out regulations for preventing unnecessarily destructive methods of whaling, e. g. the killing of suckling females. Summary in English.

**Copy seen:** DLC; MH-A.

**26781. TOMLIN, A. G.** Nekotorye dannye o sinem kite. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1938. Otdel. biol. novaiia seriia, t. 47, vyp. 2, p. 177-81) **Title tr.:** Some data on the blue whale.

Contains descriptive notes, dimensions and data on the biology and geographic distribution (cosmopolite: arctic and antarctic seas) of the blue whale, *Balaenoptera musculus*, based on the study of 13 specimens killed in 1933-36 off Kamchatka in Bering Sea. Summary in French. **Copy seen:** DLC; MH-Z.

**26782. TOMLIN, A. G.** Nekotorye osobennosti v povedenii kitov, podkhod k beregam i "obmelenie". (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1937. Otdel. biol. novaiia seriia, t. 46, vyp. 4, p. 194-203) **Title tr.:** Some peculiarities in the habits of whale, their coming to the shore and into shoals.

Contains the observations of the author and literature data on the stranding of whales and some other cetaceans in shallow sea waters (bays, river estuaries, etc.) and in rivers; the causes of this peculiar behavior is discussed. Author

deals mostly with Bering Sea but includes data from Barents (Murmansk coast), Kara and other arctic seas. Summary in French.

**Copy seen:** DLC; MH-Z.

**26783. TOMLIN, A. G.** Nekotorye voprosy iz ékologii kitoobraznykh: adaptatsii k temperaturam sredy. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1940. Otdel. biol. novaiia seriia, t. 49, vyp. 5-6, p. 112-24) **Title tr.:** Some problems in the ecology of cetaceans: adaptation to the temperature of their medium.

Contains a study of adaptation of cetaceans to the conditions of sea life, especially to sea-water temperature, with data on average temperature of the seas of both hemispheres, size (of adult specimens and calves) and mating seasons of 15 species of cetaceans; bibliography (42 items). Summary in French.

**Copy seen:** DLC; MH-A.

**26784. TOMLIN, A. G.** O severnom berardiuse i tak nazyvamom dal'nevostochnom "butylkonose." (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1952. novaiia seriia, t. 57, no. 2, p. 71-78, tables) **Title tr.:** On the northern *Berardius* and the so-called Far-Eastern "bottlenose."

Contains an account of the rather rare whale, first described by Stejneger as *Berardius bairdii*, and a comparison with representatives of the genus *Hyperoodon* (bottlenose whales); the former species, it appears, has been confused with the bottlenose whales, and is after all not so rare as previously assumed. A detailed description of the *Berardius*, its hunting, living habits, distribution, etc., based on the author's observations, is given. Bibliography (12 items).

**Copy seen:** DLC.

**26785. TOMILIN, A. G.** Observations on Far-Eastern whales. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1937. nouv. ser., v. 14, no. 6, p. 399-402, tables).

On the basis of author's observations during cruises of the whaler *Aleut*, 1933-36, distribution and quantitative correlation of species given. Age, sex and size of killed finbacks are analyzed.

**Copy seen:** DLC.

**26786. TOMILIN, A. G.** Thermoregulation and the geographical races of cetaceans. (Akademiia nauk SSSR. Comptes

rendus (Doklady), 1946. nouv. ser., v. 54, no. 5, p. 465-68, tables)

Review of thermoregulatory adaptations in small vs. large, young vs. old whales. Temperature of environment is assumed to be responsible for differences in size between arctic and antarctic races. With rare exceptions no interbreeding occurs between the two races.

**Copy seen:** DLC.

**26787. TOPOL'NITSKII, N. M.** K voprosu ob izmerenii glubiny peremernosti torfianoi zalezhi. (Torfiannai promyshlennost', Feb. 1952. v. 29, no. 2, p. 24-25, diagrs.) **Title tr.:** On the problem of measuring the depth of frost in peat deposits.

Contains description of an apparatus (developed by A. I. Danilin) and its use, for measuring the depth of frost in the ground, including that of peat deposits. Tests with drillings showed the great accuracy of the apparatus.

**Copy seen:** DLC.

**TORNAEUS, JOHANNES JONAE, d. 1681**, see Qvigstad, J. K. Sprache Tornaues' *Manuale lapponicum*. 1933. No. 25324.

**26788. TOTTER, JOHN RANDOLPH, 1914-**, and C. F. SHUKERS. Nutrition surveys of Eskimos: physical examination and laboratory tests. (Alaska's health, Oct. 1948. v. 6, no. 10, p. 4-6)

With a grant from the U. S. Public Health Service, the Alaska nutrition survey was carried out during Apr.-June 1947, to measure nutritional status of the Eskimos and determine if eye lesions were the result of malnutrition; also to assess the type and extent of nutritional laboratory studies feasible in arctic villages. The authors note here the methods used, and examination given, dental caries, incidence of signs of nutritional deficiency in eight villages, totaling approximately 6.6 per cent of the Eskimo population of Alaska. **Copy seen:** DLC.

**TOWNES, HENRY K.**, see Muesebeck, C. F. W., & others. Hymenoptera synoptic catalog. 1951. No. 24533.

**26789. TOWNSEND, J. G.**, and others. Tuberculosis control among the North American Indians. (National Tuberculosis Association, Transactions, 1941. v. 37, p. 66-76, table, diagrs.) **Other authors:** Joseph D. Aronson, Robert Saylor and Irma Parr.

Contains report on tuberculin test examinations made among 8,240 Indians of various tribes, including the Tlingit, Haida and Tsimshian Indians of southeastern Alaska, supplemented by x-ray examinations of larger numbers, including that of 3,897 living in southeastern Alaska; and also the results of a B. Calmette Guerin (BCG) antitubercular vaccination. The overall results suggest that the incidence of the disease may be attributed to social and bionomic factors; the character of the tuberculous lesions as determined roentgenologically does not differ significantly from those in white man; the intracutaneous injection of BCG vaccine proved innocuous and was not complicated by a general reaction; the results obtained indicate that both the morbidity and mortality from tuberculosis is significantly lower among those vaccinated with BCG than among unvaccinated control groups; no definite conclusion should be drawn at this time as to the protective value of the vaccine.

**Copy seen:** DSG; NNN.

**26790. TRÄGÅRDH, IVAR OSKAR HERMAN, 1878-** . Röda tallstekeln (*Lophyrus sertifer* Geoffr.). (Entomologisk tidskrift, 1910. Årg. 31, häft. 4, p. 272-78, illus.) **Title tr.:** Red pine-borer (*Lophyrus sertifer* Geoff.)

Contains systematic notes on the red pine borer, *Lophyrus sertifer*, native to Swedish Lapland, with data on its biology, distribution and damage done by its larvae to pine forests.

**Copy seen:** DLC; MH-Z.

**26791. TRÄGÅRDH, IVAR OSKAR HERMAN, 1878-** . Zur Kenntnis der Proclonychidae (Acarina). (Arkiv för zoologi. 1943. Bd. 34 A, no. 21, p. 1-29, illus.) **Title tr.** A contribution to the knowledge of Proclonychidae (Acarina).

Contains a critical revision of Swedish mites of the tribe Proclonychini (Acarina), with a key to the genera; descriptions of two new genera, *Phylloclonychus* and *Allodonychus*, and eight species (six new), including *P. tetraphyllus* from Sarek Mts., and *P. crassus* native to Kare-suando in Swedish Lapland.

**Copy seen:** DSI-M; MH-Z.

**26792. TRAVIN, V. I.** Novyi vid morskogo okunã v Barentsovom more (*Sebastes mentella* Travin sp. nov.). (Akademiia nauk SSSR. Doklady. novaiã seriia, 1951. t. 77, no. 4, p. 741-44, illus., diagrs.) **Title tr.:** A new species

of sea perch (*Sebastes mentella* Travin n. sp.) in Barents Sea.

Contains a diagnosis of this new species of the perch-like genus *Sebastes* found in Barents Sea, and a comparison with *S. marinus*, native to the same sea, with dimensions and data on distribution in Barents and Greenland Seas.

**Copy seen:** DLC; MH-Z.

**26793. TRAVIS, BERNARD VALENTINE, 1907-**, and others. Control of mosquito larvae in Alaska with DDT. (Journal of economic entomology, June 1950. v. 43, p. 350-53) Other authors: K. H. Applewhite and C. N. Smith.

Report on work continued in 1949 on the Alaska Insect Project under funds allotted by the National Military Establishment to the Bureau of Entomology and Plant Quarantine. Observations on residual effect of DDT that had been sprayed on several plots in 1948 as a prehatching treatment, and on treatments with several formulations of DDT, in 1949. Areas near Fairbanks and Anchorage were used, where a dosage of 0.1 pound of DDT per acre gave slightly higher mortalities than a dosage of 0.05 pound, both proving highly effective.

**Copy seen:** DLC.

**26794. TRAVIS, BERNARD VALENTINE, 1907-**. Studies of mosquito and other biting-insect problems in Alaska. (Journal of economic entomology, June 1949. v. 42, p. 451-57)

Preliminary summary of work done in 1947-48 by the Alaska Insect Control Project, financed by the U. S. Depts. of Army and Navy and carried out by the Bureau of Entomology and Plant Quarantine; description of the organization, personnel and programs and some of the representative data on mosquito and black fly control, biology and taxonomy.

**Copy seen:** DLC.

**TRAVIS, BERNARD VALENTINE, 1907-**, see also Blanton, F. S., & others. Control adult mosquitoes Alaska. 1950. No. 20718.

**TRAVIS, BERNARD VALENTINE, 1907-**, see also Blanton, F. S., & others. Control Alaskan mosquito adults. 1949. No. 20719.

**26795. TREICHLER, RAY, and H. H. MITCHELL.** The influence of plane of nutrition and of environmental temperature on the relationship between basal metabolism and endogenous nitrogen

metabolism subsequently determined. (Journal of nutrition, Oct. 10, 1941. v. 22, p. 333-43, 4 tables)

Contains an account on experiments with adult rats. A prior lower environmental temperature elevated the endogenous level of nitrogen excretion, whether or not the level of nutrition was simultaneously raised; it raised the basal metabolic rate only in the presence and within the limits of an elevated plane of nutrition (caloric intake). Bibliography (22 items). **Copy seen:** DLC.

**26796. TREĬMAN, I.** Problema dal'nevostochnogo agar-agara. Primenenie i fiziko-khimicheskie svoystva agar-agara. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1933, no. 1-2-3, p. 109-114) **Title tr.:** Agar-agar of the Far East; its uses and physico-chemical properties.

Contains data on red algae *Ahnfeltia plicata* (Japanese Sea), *A. plicata* f. *shantarica* (Okhotsk Sea) and *A. plicata* f. *beringiana* (Bering Sea); the method of preparation of agar-agar introduced by the author; physical and chemical properties of the product, its uses and possibilities for development of the agar-agar industry in the Soviet Far East. Summary in German.

**Copy seen:** DLC; MH-A.

**26797. TREMBLAY, LEO PAUL, 1918-**. Northeast part of Giauque Lake map area Northwest Territories (report and map). Ottawa, 1950. 2 p. l., 37 p., fold. map. (Canada Geological Survey. Paper 50-18) mimeographed.

Result of detailed mapping in 1948-49 of an area already worked by several mining companies, between about 63°08'-14' N. 113°47'-114°01' W. (north of Yellowknife). Notes on its accessibility, history, physical features, the general and structural geology; description of six properties, the largest and only one in production being that of Discovery Yellowknife Mines Ltd. Geologic map, scale 1:12,000. **Copy seen:** DGS.

**26798. TRETĬAKOV, L. D.** Proizvodstvo v zimnikh usloviakh shlakoblochnoi kladki, oblitsovannoi kirpichom ili keramicheskimi plitkami polusukhogo pressovaniia. (Stroitel'naia promyshlennost', Oct. 1952. v. 30, no. 10, p. 28-29, tables, diagrs.) **Title tr.:** Laying slag blocks faced with bricks or with half-dried, pressed tiles, under winter conditions.

Contains information on the difficulties hitherto encountered with this method; the success of its present modification in a four-storey building erected in the winter of 1950-51. Instructions concerning the type of blocks used, cement mixture and its temperature, etc. are given.

**Copy seen:** DLC.

**TRICART, J.**, see Boyé, M. Glacière et périglaciaire de l'Atâ Sund. 1950. No. 20857.

**26799. TRISMAN, V.** O russkoi étnograficheskoj karte xvii veka. (Akademiia nauk SSSR. Institut étnografii. Kratkie soobshcheniia, 1950. t. 10, p. 54-56)

**Title tr.:** On a Russian ethnographic map of the 17th century.

Contains translated excerpt from Nicolaas Corneliszoon Witsen's *Noord en Oost Tartaryen* (2nd ed., Amsterdam, 1705, p. 798-99), in which a map of Siberia (later lost) is described. It is said to have shown not only geographic, but also ethnographic features of the area.

**Copy seen:** DSI-M.

**26800. TROELS-SMITH, J.** Undersøgelse af klimaaendringer i Grønland. (Grønlandsposten, Marts 1947. Aargang 6, nr. 2, p. 41-43, illus.) **Title tr.:** Research on climatic variation in Greenland.

General remarks on A. S. Jensen's studies of ancient climate, the early vegetation and old terraces of Greenland.

**Copy seen:** DLC.

**26801. TROELSEN, JOHANNES C., 1913-** . Contributions to the geology of Northwest Greenland, Ellesmere Island and Axel Heiberg Island. København, C. A. Reitzel, 1950. 85, [1] p., illus. (incl. 3 sketch maps) fold. map. (Meddelelser om Grønland. Bd. 149, nr. 7. Copenhagen. Universitet. Mineralogisk-geologiske museum. Communications géologiques, no. 38)

Results of the Danish Thule and Ellesmere Land Expedition, 1939-41, presenting "an account of the main geological results," in combination with those of earlier investigators. Observations by the author were made during journeys along the North Greenland coast between Thule and Washington Land and on central Ellesmere Island from Bache Peninsula to Bay Fiord, Eureka Sound, Greely and Archer Fiords. Fossil and rock collections made by G. Thorlaksson in 1940, supply material on southwestern Ellesmere Island and south-

eastern Axel Heiberg Island. Author gives an account of the field work, remarks on the three available maps of Inglesfield Land (North Greenland). He describes the physiography, general structure (sketch map) historical geology, Paleozoic folding, Mesozoic or Cenozoic orogeny and faulting, stratigraphy (in detail), and the intrusive rocks; Bibliography (76 items) and geological map, scale 1:1,500,000, about 76°-83° N. 60°-90° W. are included.

**Copy seen:** DGS.

**26802. TROELSEN, JOHANNES C., 1913-** . Danish Pearyland Expedition, 1947-50. (Polar record, July 1952. v. 6, no. 44, p. 467-73, illus., map)

Contains note of previous travels (from 1882) in this northernmost part of Greenland, where little investigation has been possible till development of air transport. Then follows account of the expedition of 1947-50 (in which author participated as geologist). Organized by Eigil Knuth and Ebbe Munck, and led by the former, it had headquarters on Jørgen Brønlunds Fjord (82°11' N. 31°30' W.) serviced by Catalina flying boats from a base 560 miles to the south on Young Sund. Work of the field season of 1947-1948, winter of 1948-49; field season 1949, winter 1949-50, and field season 1950, is outlined. A summary of the scientific results in archeology, botany, geology and soil science, meteorology and glaciology; magnetic observations, topography, and zoology concludes the report. **Copy seen:** CaMAI; DLC.

**26803. TROELSEN, JOHANNES C., 1913-** . Geological investigations in Ellesmere Island, 1952. (Arctic, Dec. 1952. v. 5, no. 4, p. 199-210, illus., maps)

Contains an account of the author's studies of the Canyon Fjord region (ca. 80° N. 82° W.), especially of Caledonian Bay, east of Eureka in summer of 1952. Studies of the Ellesmere Island mountains; and previous expeditions to Canyon Fjord are noted; the author's itinerary and his geological investigations are reported, proving the essential correctness of Lauge Koch's early contention that the mountains of North Greenland and Ellesmere Island are of the Caledonian age; author's collecting of plants and microfauna, observations on animals (muskox, hare, fox, wolf, seals, birds) are mentioned. Bibliography (4 items).

**Copy seen:** DLC.

**26804. TROELSEN, JOHANNES C., 1913-** . Notes on the Pleistocene geology of Peary Land, North Greenland. (Dansk geologisk forening. Meddelelser, 1952. Bd. 12, p. 211-20, illus., 2 maps)

Contains notes on glacial valleys, erratic boulders and moraines of former glaciations, of which any striations have been eradicated by frost wedging and solution, and on a more recent, less extensive glacial advance evidenced by the overdeeping of Jørgen Brønlunds Fjord. Marine and kame terraces in Brønlunds and Independence Fjords are compared and discussed. The paper is based on observations made by the author in 1947 and 1948-49 incidentally to other work, and by T. M. Nielsen 1949-50, during participation in the Danish Peary Land Expedition of 1947-50. Bibliography (11 items).

**Copy seen:** CaMAI; DGS.

**TROELSEN, JOHANNES C., 1913-** , see also Winther, P. C., & others. Prelim. account Danish Pearyland Exped. 1950. No. 27458.

**26805. TROFIMOV, A. V.** Oxidizing activity and pH of brown sediments of the Barentz Sea. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1939. nouv. ser., v. 23, no. 9, p. 925-28, map, diagrs.)

The mud consisting of three strata is analyzed as indicated.

**Copy seen:** DLC.

**26806. TROILI - PETERSSON, GERDA.** Über den Kohlensäuregehalt der Atmosphäre. Stockholm, P. A. Norstedt, 1898. 17 p., 4 tables. (Svenska vetenskapsakademien. Handlingar, Bihang, afd. 2, bd. 23, nr. 6) **Title tr.:** On the content of carbon dioxide in the atmosphere.

"Extensive measurements of carbon dioxide were made in the air of the Arctic, North Atlantic and Patagonia. Data are presented in tables. The atmosphere over the Atlantic Ocean contained more carbon dioxide in the cold regions than in the tropical ones. The air in Patagonia contained less carbon dioxide than the air of Scandinavia, but more than the air of the adjoining sea."—*Meteorological abstracts and bibliography*, Mar. 1952. v. 3, p. 287. Bibliography (4 items).

**Copy seen:** DLC.

**26807. TROLL, CARL.** Fortschritte der wissenschaftlichen Luftbildforschung.

(Gesellschaft für Erdkunde zu Berlin. Zeitschrift, Dez. 1943. p. 277-311, illus., 8 plates) **Title tr.:** Progress of research in scientific air photography.

This résumé covers a wide range of subjects in the broad geographic field, some of which are particular interest to students of the Arctic, e. g.: airphoto research in arctic regions, p. 282-83, mentioning aerial mapping and photogrammetry of the 1930's; Russian research, p. 284-89; techniques, p. 289-91; zoogeography and hunting, p. 307-308, including surveys of seals and water fowl; and 15 air photos illustrating various forms of marine ice. For special report on ice see J. Büdel, *Das Luftbild im Dienste der Eisforschung*, 1943.

**Copy seen:** DLC.

**26808. TROLL, CARL.** Fünfundzwanzig Jahre nordisch-arktische Gletscherforschung unter Leitung von H. W. von Ahlmann. (Geologische Rundschau, 1943. Bd. 34, p. 282-93, incl. map) **Title tr.:** Twenty-five years of northern arctic glacier research under the leadership of H. W. von Ahlmann.

"Ahlmann's studies are primarily concerned with the heat balance of glaciers, their nourishment, ablation and run-off, dependence upon climatic factors, and the conditions of sustenance of glaciers in various climates. Glaciated areas investigated by Ahlmann since 1918 include Scandinavia, the Alps, Spitsbergen, Iceland, and Greenland. Glacier types are classified into temperate, polar, high-polar, and sub-polar glaciers according to the effect of summer temperatures. The variations of glaciers are explained by the ruling influence of temperature on the heat balance of glaciers. A definite relationship also exists between ablation and radiation and heat convection." Bibliography (37 items).—SIPRE. **Copy seen:** DLC.

**26809. TROLL, CARL.** Thermische Klimatypen der Erde. (Petermanns geographische Mitteilungen, März/Apr. 1943. Jahrg. 89, p. 81-89) **Title tr.:** Thermal types of climate on the earth.

The author proposes the use of daily temperature variations in studies of climatic types, previously determined on annual and monthly data; he discusses the presentation of temperature lapses over the whole time by means of thermoisopleths, and the use of such diagrams for characterizing climatic types; then offers examples of types, including Saga-

styr (Lena delta) and Mid-ice on the Greenland icecap. **Copy seen:** DGS.

**26810. TROSHCHANSKIĬ, V. F.** Opyt sistematičeskoi programy dlia sobiraniia svedenii o dokhristianskikh verovaniiakh iakutov. (Kazan'. Universitet. Obščestvo arkhologii, istorii i étnografii. Izvestiia, 1897. t. 14, vyp. 3, p. 292-360) **Title tr.:** Towards a systematic program for a complete collection of pre-Christian folk beliefs among the Yakuts.

Contains an extensive schedule of 130 questions as a basis for the interviews and collecting routine.

**Copy seen:** DLC; InU.

**26811. TROUESSART, ÉDOUARD LOUIS, 1842-1927.** Révision des Aca-riens des régions arctiques et description d'espèces nouvelles. (Société Nationale des Sciences Naturelles et Mathématiques de Cherbourg. Mémoires, 1892-1895, pub. 1895. t. 29, p. 183-206, illus.) **Title tr.:** Revision of the Acarina of the arctic regions and descriptions of the new species.

Contains critical notes on *Bdella arctica*, *Urosejus acuminatus* and *Notaspis lucorum* from Spitsbergen, a general list of 33 species of these mites and (in appendix, p. 201-206) a list of 30 acaridans of Novaya Zemlya and northern Siberia, compiled after C. L. Koch, also another list of ten species collected (in northern Siberia?) during the voyage of *Vega* and described by P. Kramer and C. Neumann.

**Copy seen:** MH-Z.

**26812. TRUBETSKOĬ, V. A.** Rabota uzkokolefnykh lesovoznykh parovozov zimoiu. Moskva-Leningrad, Goslesbumizdat, 1949. 78 [2] p., 40 illus., diags. (Ministerstvo lesnoi i bumazhnoi promyshlennosti SSSR) **Title tr.:** The work of narrow-gauge lumber-carrying locomotives in winter.

A technical monograph on servicing and care of this type of steam engine under extremely cold weather conditions: **Contains** sections on: the influence of cold on the work of the engine and ways of meeting difficulties caused by cold; preparation of the engines for winter work; servicing the boiler and the water-tender; the use of timber as fuel; care of the engine; care of railway equipment (sanding and snow clearing machines, etc.); heating of the boiler and other equipment connected with this type of engine. Bibliography (11 items).

**Copy seen:** DLC.

**26813. TRUPAK, N. G.** Primenenie iskustvennogo zamorazhivaniia gruntov v SSSR. (Stroitel'naia promyshlennost', 1938. v. 16, no. 7:51-54, incl. tables, diags.) **Title tr.:** The utilization of artificially frozen ground in the U.S.S.R.

"The use of artificially frozen ground was initiated in Russia in 1928 during the sinking of a mine shaft. It was also extensively applied a decade later when Moscow subway was built. The process involves the creation of an ice wall around the structure to be erected. Holes are drilled in the ground and pipes with sealed ends are inserted into them. These pipes hold smaller, perforated pipes through which a refrigerant flows. The ground freezes as the refrigerant circulates through the compressor, pipes, cooling coils, and compressor. Soils, high in moisture content, are well suited for freezing. Clay is more difficult to overcome. The cost of artificial freezing is considerably less than that of chemical solidification."—SIPRE.

**Copy seen:** DLC.

**26814. TRUPAK, N. G.** Zamorazhivanie gruntov v stroitel'noi industrii. Moskva, Gos. izd-vo stroit. lit-ry, 1948. 324 p., illus., diags. (2 fold.), tables. **Title tr.:** Frozen ground in the building industry.

Monograph deals with the problems of the freezing of the ground by natural or artificial means, during the digging of tunnels, mines, shafts, etc. The methods described are widely used in the subarctic and arctic areas of Siberia. "A theoretical review of physical and mechanical properties of frozen ground is followed by a detailed description of the entire process of artificial freezing of ground during the construction of foundations. Holes are drilled around the contour of the projected structure at 1.25 to 1.50 meter intervals and in rows 2.5 to 3.0 m. apart. Pipes 100-115 mm. in diameter with one end sealed are placed in the holes. Open pipes 35 mm. in diameter are lowered into the larger pipes and a refrigerant is circulated through the system until the surrounding ground is frozen solidly. The entire process required 40 to 60 days."—SIPRE. Bibliography (38 items).

**Copy seen:** DLC.

**TRUSCOTT, B. LIONEL,** see Sadhu, D. P., & B. L. Truscott. Hypervitaminosis A & distrib. body iodine. 1948. No. 25764.

**26815. TSALKIN, V. I.** Geograficheskaia izmenchivost' v stroenii cherepa pestsov Evrazii. (Zoologicheskii zhurnal, 1944. t. 23, vyp. 4, p. 156-69, illus.) **Title tr.:** Geographical variability in the skull structure of the Eurasian fox.

Contains a craniological study of four geographical races of arctic foxes: *Alopex lagopus lagopus* native to the islands of arctic seas eastward of Franz Josef Land; *A. lagopus spitsbergensis* from Vestspitsbergen, Franz Josef Land and Greenland; *A. lagopus beringensis* (Bering Island); and *A. lagopus semenovi* (Copper Island). The difference in the rate of variability is explained by the influence of environmental factors. Summary in English.

**Copy seen:** DLC; MH-Z.

**26816. TSALKIN, V. I.** K biologii belogo medvedia arhipelaga Frantsa Iosifa. (Moskovskoe obshchestvo ispytatelei prirody. Biulleten', 1936. Otdel. biol. novaiia seriia, t. 45, no. 5, p. 355-53) **Title tr.:** On the biology of the white bear of the Franz-Josef archipelago.

Contains a study of the dimensions (table 1), food, reproduction and migration of the white polar bear, (*Thalassarcos maritimus* L.) on Franz Josef Land. Summary in English.

**Copy seen:** DLC; MH-Z.

**26817. TSALKIN, V. I.** Materialy k biologii morzha arhipelaga Frantsa Iosifa. (Moskovskoe obshchestvo ispytatelei prirody. Biulleten', 1937. Otdel. biol. novaiia seriia, t. 46, vyp. 1, p. 43-51) **Title tr.:** Materials on the biology of the walrus of the Franz Josef archipelago.

Contains observations made by the author in 1933-34 on the biology of walrus in Franz Josef Land waters, with data on the composition of walrus herds (mostly males), their dimensions, weight, feed and life habits. Summary in English.

**Copy seen:** DLC; MH-Z.

**26818. TSALKIN, V. I.** Novye dannye o rasprostraneniі grenlandskogo tūlenia (Moskovskoe obshchestvo ispytatelei prirody. Biulleten', 1952. novaiia seriia, otdel. biol. t. 57, no. 2, p. 79-80, illus.) **Title tr.:** New data on the distribution of the Greenland seal.

Contains a description of skeletal remnants of the Greenland seal *Histriophoca groenlandica*, found in Asva, a populous settlement which existed in the

first millenium B. C. on the island Ezel (or Saare). The presence of this species in the area of the Baltic some 9000-13,000 years ago and its occasional appearance there and on the Netherlands, French and English coasts in historical times, is mentioned. Bibliography (4 items).

**Copy seen:** DLC.

**26819. TSAPKO, A. S.** Izotermicheskii flot v Ob'-Irtyskshom basseine. (Rybnoe khoziaistvo, Apr. 1952. v. 28, no. 4, p. 23-25, illus., diags.) **Title tr.:** The constant-temperature fleet of the Ob'-Irtysk basin.

Contains an account of the fleet used for over 15 years for the transport of frozen and lightly salted fish at a constant temperature; flat-bottomed vessels with brine-ice cooling system make up this fleet. Details are given on their dimensions, construction, special interior arrangement, insulation, temperatures of the storage rooms, etc.

**Copy seen:** DLC.

**TSAREGRADSKII, V. A.,** see Samollovich, R. L., & others. Geologiya Arktiki. 1937. No. 25812.

**TSAREGRADSKII, V. A.,** see also Smirnov, S. S., & V. A. Tsaregradskii. Severovostok Azii, ego metallogeniia i olovonost'. 1937. No. 26281.

**TSHITSCHERINE, T. S.,** see CHICHERIN, TIKHON SERGEEVICH, 1869-1904.

**26820. TSUKERMAN, L.** Ekonomicheskaiia rabota GOIN'a v 1932 godu. (Karelo-Murmanskiı kraı, 1933, no. 1-2, p. 62-68, illus.) **Title tr.:** Economic work of GOIN in the year 1932.

The author presents a review of the work of several investigators on the following problems: internal organization and technological improvement of the trawling fleet; analysis of the inshore cod-industry in Murman; statistical-economic analysis of the inshore fisheries of Karelia on the White Sea; the industry of the Samoyeds on the Malozemel'skaya Tundra.

**Copy seen:** DLC.

**26821. TSVETKOV, M. A.** Lesnye karty i metodika ikh sostavleniia. Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1950. 210 p., 18 plates (maps and diags.) incl. 3 fold. **Title tr.:** Forest maps and methods of their preparation.

Contains sections on: the history of

Russian forest map-making; problems of cartography of the peoples democracies; forest maps of capitalist countries (U.S.A., Canada, European countries); object of forest maps of the U.S.S.R. and their preparation; sources for making of forest maps and contents of the latter; survey and regional maps of the U.S.S.R.; methods of indicating forest covers on maps; formulas; the government map of forests of the U.S.S.R. The book offers information on forest maps of the arctic areas of Russian Europe and central Siberia. Bibliography (over 150 items).

**Copy seen:** DLC.

**TSYETKOV, V. P.,** see No. 25088.

**TSYPANOV, D. M.,** see Ognev, V. V., & D. M. Tsypanov. Olenevodstvo Komi ASSR. 1951. No. 24800.

**26822. TSYTOVICH, NIKOLAI ALEK-SANDROVICH.** K teorii ravnovesnogo sostoianiia vody v merzlykh gruntakh. (Akademiia nauk SSSR. Izvestiia, Seriiã geograficheskaiã i geofizicheskaiã, 1945. t. 9, no. 5-6, p. 493-502, incl. illus., tables, diagrs.) **Title tr.:** Equilibrium theory of water in frozen ground.

"Observational and experimental evidence indicate that permafrost and seasonally frozen soils always contains some unfrozen water. The amount of unfrozen water depends on meteorological factors and tends to become smaller as the temperature is lowered."—SIPRE. Bibliography (23 items). **Copy seen:** DLC.

**26823. TSYTOVICH, NIKOLAI ALEK-SANDROVICH.** K voprosu rascheta fundamentov sooruzhenii, vozvodimykh na vechnoi merzlate. Leningrad, Gosud. inst. po proektirovaniu nov. metal. zav. 1928. 67 p. **Title tr.:** On the question of the calculation of building foundations to be erected on permanently frozen ground.

"Necessary conditions for durability and stability of building foundations in permanently frozen ground are discussed with reference to the influence of temperature, heaving of frozen ground and action of external forces. The statement is made that this is a first attempt to solve the problem of constructing foundations on permanently frozen ground, and since technical literature contained very little information on the subject, further experimental study would be required."—SIPRE. **Copy seen:** DLC.

**26824. TUGARINOV, ARKADIĬ IAKO-VLEVICH, 1880-** . The bluethroats of the eastern Palearctic. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1928, pub. 1929. t. 29, p. 1-4, map)

*Contains* a critical revision of 15 forms of this bird (*Cyanosylvia*) of the eastern Palearctic, with descriptions of four new subspecies, critical notes and data on distribution; includes at least two species native to northern regions of European Russia and Siberia.

**Copy seen:** DSI-M; MH-Z.

**26825. TUGARINOV, ARKADIĬ IAKO-VLEVICH, 1880-** . K voprosu o formirovaniï ostrovnykh form. (Akademiia nauk SSSR. Otdelenie matematicheskikh i estestvennykh nauk. Seriiã biologicheskaiã. Izvestiia, 1936, no. 2-3, p. 501-522) **Title tr.:** On the problem of the origin and development of island forms.

*Contains* a study of the origin and development of ornithological fauna of New Siberian (73°07'-76°15' N. 136°-157° E.) and Commander Islands (54°33'-55°22' N.) with data on the geology, physical geography climate of both island groups, and general sketches of their avifauna with specific references to many species. Summary in German.

**Copy seen:** DLC; MH.

**26826. TUGARINOV, ARKADIĬ IAKO-VLEVICH, 1880-** . Migratsiia ptits na territorii SSSR v svete chetvertichnoi istorii strany. (Akademiia nauk SSSR. Izvestiia. Otdelenie matematicheskikh i estestvennykh nauk. Seriiã biologicheskaiã, 1937, no. 4, p. 1171-84, text map) **Title tr.:** Bird migration in U.S.S.R. on the basis of the Quaternary history of the country.

*Contains* a report delivered at the meeting of the Biological group of the Academy of Sciences U.S.S.R. (Dec. 2-4, 1936) dealing with the routes of migratory birds in the U.S.S.R., which were greatly influenced by the recession of the ice cover after last Quaternary glaciation; Atlantic, Kamchatka and American routes, covering northern regions, are discussed. **Copy seen:** DLC; MH.

**26827. TUGARINOV, ARKADIĬ IAKO-VLEVICH, 1880-** . Ptitsy SSSR. Utii, gusi, lebedi i krokhal. Leningrad, Izd-vo Akademii nauk SSSR, 1932. 75 p., illus. (In: Akademiia nauk SSSR. Opredeleteli

po faune SSSR. no. 5) **Title tr.:** Birds of the U.S.S.R. The ducks, geese, swans, and mergansers.

**Contains** characteristics of the order Anseriformes, keys to the subfamilies, genera and species, and an enumeration of 64 species of these birds, with descriptions (male, female and young birds), dimensions and data on total distribution. Includes many species native to northern regions of U.S.S.R. Indexes of Russian and Latin names are appended.

**Copy seen:** DA; MH-Z.

**26828. TUGARINOV, ARKADIĬ ĬAKOVLEVICH, 1880-** . Zoogeograficheskie uchastki Prieniseĭskoi Sibiri. (Akademiĭa nauk SSSR. Doklady, seriĭa A, Oct. 1925, p. 115-18) **Title tr.:** Zoogeographical areas of Siberia on the Yenisey basin.

Account of the main climatic-floristic belts and their representative faunistic elements.

**Copy seen:** DLC.

**TULAEV, A. ĬA.,** see Babkov, V. F., & others. Gruntovedenie i mekhanika gruntov. 1950. No. 20383.

**26829. TULLGREN, HUGO ALBERT, 1874-** . Bidrag till k nnedomen om den svenska spindelfaunan, I. (Entomologisk tidskrift, 1942.  rg. 63,  aft. 3-4, p. 217-34, plates 1-2) **Title tr.:** Contribution to the knowledge of Swedish spider fauna, I.

**Contains** a systematic enumeration of 47 Swedish arachnids, with German diagnoses (in summary) of two new and six otherwise interesting species; includes *Gnaphosa lapponum*, *Clubiona norvegica* and *Tibellus maritimus* native to Swedish Lapland. This study was continued by pt. 2-3 (items following). Summary in German.

**Copy seen:** DA; MH-Z.

**26830. TULLGREN, HUGO ALBERT, 1874-** . Bidrag till k nnedomen om den svenska spindelfauna, II. (Entomologisk tidskrift, 1947.  rg. 68,  aft. 3-4, p. 129-54, illus.) **Title tr.:** Contribution to the knowledge of Swedish spider fauna, II.

**Contains** a critical revision of Swedish spiders of the genus *Tetragnatha* Ltr. (or *Eugnatha* And.), with a key to the species and descriptions of eight species with synonymy, critical notes, dimensions and data on distribution; includes *T. solandri* from Swedish Lapland. Pt. I was published in 1942, and a third part in 1949, q. v. Summary in German.

**Copy seen:** DA; MH-Z.

**26831. TULLGREN, HUGO ALBERT, 1874-** . Bidrag till k nnedomen om den svenska spindelfaunan, III. (Entomologisk tidskrift, 1949.  rg. 70,  aft. 1-2, p. 33-64, illus.) **Title tr.:** Contribution to the knowledge of Swedish spider fauna, III.

**Contains** a critical revision of Swedish representatives of spider family Theridiidae, with descriptions of 42 species (one new) in 13 genera, including seven native to Swedish Lapland. Pt. 1-2 were published in 1942 and 1947, q. v. Summary in German.

**Copy seen:** DA; MH-Z.

**26832. TULLGREN, HUGO ALBERT, 1874-** . Dr. Filip Tryboms efterl mnade faunistiska anteckningar om svenska Thysanoptera. (Entomologisk tidskrift, 1917.  rg. 38,  aft. 1, p. 33-61) **Title tr.:** Dr. Filip Trybom's posthumous faunistic notes on Thysanoptera.

**Contains** a systematic list of 53 species of Swedish thrips (Thysanoptera), based on the collections and field notes of Dr. F. Trybom; with localities arranged by provinces, date of the find, host plants and notes on habitat; includes ten species native to Swedish Lapland. A brief biographical note on Trybom is added with a list of his eight publications on Thysanoptera (p. 32-35).

**Copy seen:** MH-Z.

**26833. TULLGREN, HUGO ALBERT, 1874-** . Notiser r rande arter af Arachnid-grupperna Chelonethi och Phalangidea. (Entomologisk tidskrift, 1906.  rg. 27,  aft. 3-4, p. 214-18) **Title tr.:** Notes on arachnid groups Chelonethi and Phalangidea.

**Contains** critical notes and data on distribution of eight arachnids of the groups Chelonethi and Phalangidea, including *Mitopus morio* var. *alpinus*, native to Swedish Lapland.

**Copy seen:** DLC; MH-Z.

**26834. TULLGREN, HUGO ALBERT, 1874-** . Om sk ldl ss. (Entomologisk tidskrift, 1906.  rg. 27,  aft. 1-2, p. 69-95, illus.) **Title tr.:** On plant lice.

**Contains** data on the organic structure, phylogeny and biology of plant lice; and a systematic list of 20 species, with synonymy, critical notes, data on host plants and damage done to them; includes *Orthezia cataphracta*, native to Torne Lappmark.

**Copy seen:** DLC; MH-Z.

**26835. TULLGREN, HUGO ALBERT, 1874-** . Svensk spindelfauna: 1, Klo-

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krypare; 2, Lackespindlar. (Entomologisk tidskrift, 1906. Årg. 27, häft. 3-4, p. 195-205; (2) p. 206-213, illus.) **Title tr.:** Swedish arachnid fauna: [pt] 1, Chelonethi; [pt] 2, Phalangidea.

Contains a taxonomic study of the orders Chelonethi and Phalangidea of the class Arachnida; with synopses of the families, genera and species, keys and descriptions of 17 Swedish species, including *Mitopus morio* var. *alpina* occurring in all northern regions of Sweden.

**Copy seen:** DLC; MH-Z.

**26836. TULLGREN, HUGO ALBERT, 1874-** . Zur Kenntnis schwedischer Coniopterygiden. (Arkiv för zoologi, 1906. Bd. 3, no. 5, 1-15, illus.) **Title tr.:** A contribution to the knowledge of Swedish Coniopterygidae.

Contains a critical revision of six Swedish species (one new) of the moth-like insects called "dusty wings" (Coniopterygidae), including *Coniopteryx tineiformis*, native to Swedish Lapland, with a synopsis of the species, synonymy and critical notes. A revision of this family was also published about this time by Nathan Banks, *A revision of the nearctic Coniopterygidae*, in Entomological Society of Washington, Proceedings, Sept.-Dec. 1906, pub. 1907. v. 8, no. 3-4, p. 77-86, plate 6-7 (Copy seen: DLC).

**Copy seen:** MH-Z.

**26837. TULLGREN, HUGO ALBERT, 1874-** . Zur Kenntnis schwedischer Spinnen, I. (Entomologisk tidskrift, 1952. Årg. 73, häft. 3-4, p. 151-77, illus.) **Title tr.:** A contribution to the knowledge of Swedish spiders, I.

Contains a critical revision of 45 species of spiders inhabiting Sweden (two are described as new) with descriptions, critical notes and data on distribution. Includes *Agroeca gavnilzi* n. sp. and *Sitticus saricola* native to Swedish Lapland.

**Copy seen:** MH-Z.

**26838. TULLGREN, HUGO ALBERT, 1874-** . Zwei bemerkenswerte Vertreter der Familie Dictynidae (Araneae). (Entomologisk tidskrift, 1948. Årg. 69, häft. 3, p. 155-60, illus.) **Title tr.:** Two noteworthy representatives of the family Dictynidae (Araneae).

Contains a German diagnoses of a new spider *Argenna prominula* n. sp., collected by N. Bruce in Karesuando, Swedish Lapland, in 1935.

**Copy seen:** DA; MH-Z.

**TULLGREN, HUGO ALBERT, 1874-** , see also Bryk, F., & F. Nordström. Bibliographische . . . Zusätze zu Svenska fjärlar. 1946. No. 20989.

**TULLGREN HUGO ALBERT, 1874-** , see also Nordström, F., & E. O. Wahlgren. Svenska fjärlar. 1935-41. No. 24722.

**26839. TUMANOV, I. I.** Osnovnye dostizheniia sovetskoi nauki v izuchenii morozostokosti rastenii. (Akademiia nauk SSSR. Vestnik, Sept. 1950. god 20, no. 9, p. 95-97) **Title tr.:** Basic achievements of Soviet science in study of frost resistance in plants.

Contains an abstract of the eleventh Timiriāzev lecture organized by the Akademiia nauk SSSR, giving an outline of the early work of Timiriāzev, Michurin and N. A. Maksimov, as well as recent work on the freezing process and on the defense of plants against frost damage; development of frost resistant cereals, etc.

**Copy seen:** DLC.

**26840. TUMEL', V. F., and others.** Merzlotnye uslovia Sovetskogo i Zarushezhnogo Dal'nego vostoka. (Akademiia nauk SSSR, Referaty nauchno-issledovatel'skikh rabot za 1945 g. Moskva, 1947. Otdelenie geologo-geograficheskikh nauk, p. 170) Other authors: S. P. Kachurin and A. I. Popov. **Title tr.:** Permafrost conditions of the Soviet and non-Soviet Far East.

"A brief description is given of existing permafrost conditions in various physical-geographical regions. The description includes data on the thickness of the permafrost, the active layer, and supra-permafrost horizons. Data are presented on the trafficability of the areas and conditions relating to railroad construction. Maps showing the permafrost distribution are included. The assembled material is to serve as an aid in establishing the relationships between the development of seasonal and permanent frost and geographical peculiarities of given localities."—SIPRE. **Copy seen:** DLC.

**26841. TUMEL', V. F.** Nekotorye geograficheskie itogi sovetskogo merzlotovedeniia. (Akademiia nauk SSSR. Izvestiia. Seriia geograficheskai i geofizicheskai, 1946. t. 10, no. 2, p. 205-212) **Title tr.:** Some geographic findings of Soviet permafrostology.

"A review of U.S.S.R. permafrostology research from 1930 to 1945 is presented. The distribution and the thickness of permafrost in the northeastern U.S.S.R.

was determined more accurately. Hydrogeological investigations indicated that ground water in the Indigirka River region penetrated a 200-m. layer of permafrost and formed extensive icefields during winter. The extent of ground ice distribution was studied, and its origin traced to the glaciation period. The degradation of permafrost was ascertained by comparing Sumgin's recent data with Middendorf's data collected about 100 yrs. ago. The concept of the active layer and its dynamics during freezing and thawing was developed. A relationship was established between the characteristics of the active layer, the character of the permafrost and the relief."—SIPRE. Bibliography (19 items). Summary in English.

**Copy seen:** DLC; MH.

**26842. TUMEL', V. F.** O glubine sezonnogo promerzaniia gruntov v Aziatskoi chasti SSSR. (Akademiia nauk SSSR. Referaty nauchno-issledovatel'skikh rabot za 1944 g. Moskva, 1945. Otdelenie geologo-geograficheskikh nauk p. 127) **Title tr.:** On the depth of seasonal freezing of soils in the Asiatic part of U.S.S.R.

"Asiatic U.S.S.R.; has seven separate regions devoid of permafrost. These are subjected to seasonal freezing extending from a few cm. to 5.5 m. The frost penetration depends primarily on the thickness of the snow layer. The secondary factors affecting the freezing of the soil are also discussed."—SIPRE.

**Copy seen:** DLC.

**26843. TUMEL', V. F.** O merzlotie v bassejne reki Vikhorev. (Akademiia nauk SSSR., Trudy komissii po izucheniiu vechnoi merzloty, 1935. t. 4, p. 7-93, incl. illus., tables, maps) **Title tr.:** Permafrost in the Vikhoreva River basin.

The Vikhoreva is a left tributary of the Angara, 768 km. above the latter's confluence with the Verkhnyaya Tunguska. "The basin of Vikhoreva located between 56°10' and 56°50' N. lat., and 100°25' and 100°30' E. long., occupies an area of approximately 5600 km<sup>2</sup>. The river attains a maximum width of 33 m. and a depth of 1.85 m. at Chupino, where the velocity is 1.5 m./sec. The area is characterized by low soil temperatures, an impervious permafrost layer, and the thawing of the suprapermafrost layer to a maximum of 70 cm. in swampy areas and 200 cm. along well drained terraces.

The seasonal freezing and thawing of saturated soils accelerates weathering processes and results in slides and soil flows which modify existing landforms."—SIPRE. Bibliography (18 items).

**Copy seen:** DLC.

**26844. TUMEL', V. F.** O merzlotnoi s'emke. (Akademiia nauk SSSR. Izvestiia. Seriia geograficheskai i geofizicheskai, 1945. t. 9, no. 2, p. 135-144 incl. maps, diag.) **Title tr.:** Frost survey.

"The principles and methods used in mapping the extent, continuity, and thickness of permafrost are outlined. A survey based on examination of test pits, drillholes, and other field methods should determine areas of continuous permafrost, permafrost areas with taliks, and areas with sporadic permafrost. A system of designations for the type of permafrost, its thickness, and its temperature was developed for maps varying in scale from 1:1,500,000 to 1:500,000."—SIPRE. Summary in English.

**Copy seen:** DLC.

**26845. TUNKELO, E. A.** Der syrische Pluralcharakter -jan. (Suomalais-ugrilainen seura. Toimituksia, 1933. no. 67, p. 385-95) **Title tr.** The Zyrrian suffix -jan stresses plural form.

**Copy seen:** DLC; InU.

**26846. TUOMIKOSKI, RISTO KALEVI.** Kangasmetsiemme sammalikosta. (Luonnon tutkija, 1948. v. 52, no. 3, p. 76-82, illus.) **Title tr.:** The moss in heath forests.

Contains survey of previous studies; data on distribution and characteristics of various mosses in Finland, including those in northern regions and northern species. Special attention is given to mosses occurring in heath forests and the 12 most important species and their distribution are described. Bibliography (15 items).

**Copy seen:** DLC.

**26847. TUOMIKOSKI, RISTO KALEVI.** Notizen über die Clusiiden Finnlands. (Notulae entomologicae, 1933. v. 13, no. 1-2, p. 15-19, illus.) **Title tr.:** Notes on the Clusiidae of Finland.

Contains a key for the determination of five Finnish species (one new) of dipterous genus *Clusiodes*, including *C. apicalis*, native to Finnish and Russian Lapland.

**Copy seen:** DLC; MH-Z.

**26848. TUOMIKOSKI, RISTO KALEVI.** Zwei neue Empididen aus Finn-

land. (Notulae entomologicae, 1932. v. 12, no. 2-3, p. 46-50, illus.) **Title tr.:** Two new Empididae from Finland.

**Contains** a table for the determination of seven species of dance flies of the genus *Tachypeza* and a diagnosis of *T. fennica* n. sp. native to central Finland and Kola Peninsula.

**Copy seen** DLC; MH-Z.

**26849. TUORI, HEIKKI.** Sounding through sea and lake ice in Finland. (Polar record, Jan. 1952. v. 6, no. 43, p. 336-39, illus.)

**Contains** description of a simple method already in use at the beginning of the 18th century, and still worthwhile for special soundings of a local nature, viz. in areas of shallow water (to 20 m.) where the ice does not shift (lakes, waters of inner coastal archipelagos), or where other methods are not preferred. It consists in marking a rectangular lattice on the ice, and at fixed intervals drilling holes through which the soundings are made. The equipment used by the Hydrographic Office of Finland for this work in coastal waters and inland lakes is described and figured, as well as the routine of measuring, drilling sounding, etc., and the transfer of soundings to maps.

**Copy seen:** DLC.

**26850. TUOVINEN, ARNO.** Jään vahvistaminen vesittämällä varmistaa talviniputuksen onnistumisen. (Metsä-taloudellinen aikakauslehti (Finska forstföreningen), 1951. no. 5, p. 135-37, illus., tables) **Title tr.:** Reinforcement of ice by watering ensures successful bundling in winter.

**Contains** data on a simple and economical method of reinforcing the ice cover of water bodies sufficiently to support the machinery, and operations of assembling logs into bundles. The method was developed by three Finns (Pesola, Suriäinen and Heikkinen) during the winter of 1950-51. Details of a screw pump and its use in the operation are described. Summary in English.

**Copy seen:** DA.

**26851. TUOVINEN, ARNO.** Talviniputuksesta. (Metsä-taloudellinen aikakauslehti (Finska forstföreningen), 1950. v. 65, no. 1, p. 16-19, 24, illus., diagrs.) **Title tr.:** On winter bundling.

**Describes and illustrates** methods and equipment (bundling frames or cradles) for assembling 2-meter length logs in bundles of approx. 2 meter diameter.

This procedure is increasingly favored in Finland as winter work carried out at shore storage sites or on the ice of frozen-over waterways. After the ice goes out, the ready-bundled logs are floated down to mills. Similar equipment and methods used in Sweden and the U.S.S.R. are also briefly noted. Summary in English.

**Copy seen:** DA.

**26852. TURI, JOHAN OLAFSSON.** Turi's book of Lappland; ed. and tr. into Danish by Emilie Demant Hatt, tr. from the Danish by E. Gee Nash. *Original title:* "Muittalus Samid Birra". New York and London, Harper & Bros., [1931] 293, [2] p. incl. 14 plates (part. double), front. (part.)

**Contains** an account of Lappish life comprised of notes written down by a Fell-Lapp from Kautokeino. Though without any schooling, he could write and read in his own language and Finnish, and had lived all his life as a reindeer nomad and hunter. It took about one year to write down his notes (in 1907-08) with the editing assistance of Mrs. Hatt. The book touches upon almost all the aspects of the nomadic life: work and customs, care of the reindeer, the art of trapping, etc. It includes a section on Lapp doctoring (p. 148-72), tales and sagas about stallos (giants) and uldas (fairies); Lapp songs (joking), sagas about Lapp origin and wanderings; remarks on happenings in Kautokeino and on the hard life of non-domesticated animals in Lapland. The 14 extensive drawings by the author illustrate episodes and aspects of Lappish life. First published in Danish (1910) this was translated into German (1912), Swedish (1917), and English (1931). **Copy seen:** DLC.

**26853. TURI, JOHANN OLAFSSON, and P. A. TURI.** Lappish texts written by Johan Turi and Per Turi. With the cooperation of K. B. Wiklund, ed. by Emilie Demant-Hatt. København, Høst & søn, 1918-19. (Danske videnskabelnes selskab. Skrifter, historisk og filosofisk afdeling, række 7, af. 4, no. 2, p. 95-280)

**Contains** texts written down by two native Lapps, uncle and nephew, wholly engaged in the tending of reindeer, who sent their note-books since 1908 to Mrs. Emilie Demant-Hatt. The texts of Johan Turi represent the Kautokeino dialect, and though phonetically imperfect, they are valuable from the viewpoint of lexicology, phraseology, and

syntax. Those of Per Turi represent the Jukkasjärvi dialect and are written with fairly consistent orthography. These texts consist of 116 narratives in Lappish with parallel English translation, grouped as: magic and medicine (39 accounts of sacrifices in former times, deeds of shamans, charms and healing of diseases); "noaide" tales (16 stories about shamans and sorcerers); "Ulda" and other tales (41 stories about uldas or fairies, jocular stories, beliefs, riddles, omens, etc.); reindeer and hunting (9 stories); anecdotes from daily life (8). Linguistic footnotes are added by K. B. Wiklund, and folkloristic and ethnographic notes (p. 269-76) by the editor.

*Copy seen:* DLC.

**TURI, PER ASLAKSSON, 1888-**, *see* Turi, J. O., & P. A. Turi. Lappish texts. 1918-19. No. 26853.

**TURNBULL, LOUIS A.**, *see* Jolley, T. R., & others. Bituminous-coal Eska, Alaska. 1952. No. 23012.

**26854. TURNER, EDWARD.** 3000 miles by dog sled, the tale of a missionary journey made by the late Canon Turner . . . written from his diaries by his brother Edward, with an introduction by L. A. Learmonth. (Beaver, Mar. 1950. Outfit 280, no. 4, p. 26-31, illus., sketch map)

Account of Rev. John H. Turner's seven-month trip Oct. 1938-May 1939, from King William Island by Boothia Peninsula, Somerset Island, Pond Inlet on Baffin Island, Igloolik, Repulse Bay, Fort Ross, returning to his post at Moffet Inlet; with notes throughout on travel and weather conditions.

*Copy seen:* DSI-M.

**TURNERETSCHER, G. MARKTANNER, *see* MARKTANNER-TURNER-ETSCHER, GOTTLIEB.**

**26855. TURPAEVA, E. P.** Pitanie nekotorykh donnykh bezpozvonochnykh Barentsova moria. (Zoologicheskii zhurnal, 1948. t. 27, vyp. 6, p. 503-512, illus.) *Title tr.:* Food of some invertebrates of the Barents Sea bottom.

*Contains* data on the food and conditions of nourishment of various invertebrate fauna (Echinodermata, Lamelibranchiata, Crustacea, Tunicata and Brachipoda) found on, or in the bottom of the Barents Sea; the region of the study includes the central section of this

sea, Bear Island waters and the Pechora-Kanin - Kolguyev shallows.

*Copy seen:* DLC; MH-2.

**26856. TURQUETIL, ARSÈNE LOUIS EUGENE, Bishop, 1876-** . Have the Eskimo the concept of a supreme being? (Primitive man, 1936. v. 9, no. 3, p. 33-38)

*Contains* sophistical reasoning on Eskimo deities: the Eskimo believes that the good spirits prevail over evil ones, and that the guardian spirits who assist the medicine man are good spirits; in illness, the Eskimo, lacking medicinal plants in his barren environment, depends on the medicine man's intervention with the spirits; the medicine man can also, using magic, lay a curse upon his enemy; beyond this there is no evidence that the Eskimo believes in any hierarchy of good spirits, or in one being superior to all others; the name of goddess *Nulia* 'pol, however, can be interpreted as "the one who has things produced", she is the mother of all men. Author has lived in northern Canada since the early 20th century as Oblate missionary.

*Copy seen:* DLC; InU.

**26857. TUSHINSKIĬ, G. K.** Èvolutsiia snezhnoi tolshechi; vzniknovenie firma i gletchernogo l'da. (Voprosy geografii, 1951. sbornik 24, p. 350-79, 10 illus. incl. 3 plates (1 fold.), diags.) *Title tr.:* The evolution of snow thickness; genesis of firn and glacier ice.

"A comprehensive summary of experimental and field studies on the evolution of snow thickness which brings about the formation of friable horizons within snow, giving rise to avalanches of old dry firn and of snow layers, on means of forecasting snowslides, and on the process of firn formation and the transformation of firn into glacial ice. These studies were carried out at the Khibiny geographical station of Moscow University and on the Ptysh and Alibek glaciers. The following topics are discussed: the factors of firn formation, namely the temperature régime of the snow cover and crystallization, developmental stages in the formation of snow cover; variations in the stratigraphy of snow thickness such as the process of transition of one type of snow into another and the conditions favoring the formation of friable horizons; the evolution of the mechanical properties of snow thickness; the compressibility of snow; determination of the degree of cohesion between different layers of snow;

and the classification of snow types. Photographs illustrating various stages in the formation of firn are presented."—*Meteorological abstracts and bibliography*, Oct. 1952. v. 3, no. 10, p. 1057-58.

**Copy seen:** DLC.

**26558. TUXEN, S. L.** Die Arten der Gattung *Scatella* (Ephydriidae) in heissen Quellen. (Opuscula entomologica, 1936, pub. 1937. Bd. 1, häft. 4, p. 105-111, illus.) **Title tr.:** Species of the genus *Scatella* (Ephydriidae) in the hot springs.

Contains descriptive notes on larvae and pupae of brine flies of the genus *Scatella* found in the thermal springs in Iceland (*S. stagnalis f. thermarum*), Greenland (*f. stagnalis* and *f. thermarum*), and Kamchatka (*S. costalis*).

**Copy seen:** DA; MH-Z.

**26559. TUXEN, S. L.** Die Jugendstadien der nordischen Camisiiden (Acar. Orib.) und etwas über die Systematik der Erwachsenen, I. Die Gattungen *Nothrus*, *Platynocheilus* und *Heminocheilus*. (Entomologiske meddelelser, 1952. Bd. 26, hefte 5, p. 392-403, illus.) **Title tr.:** Earlier stages of northern Camisiidae (Acar. Orib.) and something on the systematics of the imagines I. The genera *Nothrus*, *Platynocheilus* and *Heminocheilus*.

Contains tables for the determination of nymphae, larvae and imagines of the genera and species of mites (fam. Camisiidae) mentioned in the title; based on a study of specimens from various regions, including *Camisia horrida* from Greenland and *Nothrus pratensis* native to Abisko, Swedish Lapland. **Copy seen:** MH-Z.

**26860. TVING, RASMUS CHRISTEN NIELSEN, 1888-** . Grønlands besejling. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 2, p. 121-46, illus.) **Title tr.:** Greenland shipping.

General account of the dangers from storms and ice along the Greenland coasts, old voyages and shipwrecks there, modern shipping before and after World War II; notes on development of aids to navigation and port facilities, and the ship-building program currently being carried out. Bibliography (4 items).

**Copy seen:** DSI-M.

**26861. TVING, RASMUS CHRISTEN NIELSEN, 1888-** . Grønlands handelsflåde. Grønlandsposten, marts 1947. Årgang 6, nr. 2, p. 26-30, illus.) **Title tr.:** Greenland's commercial fleet.

Remarks on ships of the past in the

Greenland trade and exploration; post-World War II program of building boats and ships to replace those lost during hostilities.

**Copy seen:** DLC.

**26862. TWEEDLE, A. H.** Visual survey of East Canadian Arctic Eskimos. (Optical journal and review of optometry, 1947. v. 84, no. 21, p. 36-39, illus., map)

Contains a report on a survey of 3309 (1931 census) Eskimos of the Canadian Eastern Arctic (east of roughly 95° W. long.) to discover "the incidence, the degree, and the type of refractive error, and to devise and carry out practical methods for fitting the necessary lenses to correct these errors." 137 pairs of lenses were fitted. The ways of fitting are described, particularly the special requirements due to the peculiar facial structure of the Eskimos.

**Copy seen:** DSG.

**26863. TWEEDSMUIR, JOHN NORMAN STUART BUCHAN, Baron, 1911-** . Hudson's Bay trade. [1st American ed.] New York, Norton [1951]. 195 p. illus.

Contains casual workaday account in diary form, of the year (1938) spent by the author (for reasons of health) at Cape Dorset on Baffin Island. As member of a two-man trading post of the Hudson's Bay Co. there, he made trips to nearby localities and describes his experiences tending dogs, laying trap lines, trading with Eskimos, etc. He notes some outstanding Eskimos, weather conditions, hunting and sealing activities, preparation and packing of skins for shipment. Reviewed in *Geographical journal*, Mar. 1952. v. 118, p. 83-84.

**Copy seen:** DLC.

**26864. TWENHOFEL, WILLIAM STEPHENS, 1918-** . Geology of proposed Blue Lake dam site and tunnel near Sitka, Alaska. [Washington, D. C.] 1951. 4 p. maps (1 fold.). (U. S. Geological Survey. Circular 147). Process printed.

Contains notes on the structural and petrologic relations of the Mesozoic and Paleozoic terrain of Blue Lake, Baranof Island, Southeast Alaska. Conglomerates (slate, argillite, sandstone and greenstone) predominate; with removal of exposed fractured rock, they would provide firm dam foundation and abutment.

**Copy seen:** DGS.

**26865. TWENHOFEL, WILLIAM STEPHENS, 1918-** . Recent shore-line

changes along the Pacific coast of Alaska. (American journal of science, July 1952. v. 250, p. 523-48, map)

Fossil assemblages from glacial till or on glaciated bedrock surfaces indicate the postglacial date of most of the uplift recorded in this paper. The cause of the shore-line changes is most probably orogenic movement, but a lowering of the sea level may also be involved.

**Copy seen:** DGS; DLC.

**26866. TWINN, CECIL RAYMOND, 1897-**, and others. Area control of mosquitoes by aircraft in subarctic Canada. (New Jersey Mosquito Extermination Association. Proceedings, 1950. 37th annual meeting, p. 113-40, illus., tables, diagrs.) Other authors: A. W. A. Brown and H. Hurtig.

Report on "Operation Airspray", May-July 1949, requested by the Royal Canadian Air Force and carried out by the Canadian Dept. of Agriculture's Division of Entomology, at five R.C.A.F. stations: Fort St. John and Fort Nelson British Columbia, Whitehorse and Watson Lake in Yukon Territory, and Goose Bay in Labrador. The apparatus, materials, methods are outlined, the environmental conditions and mosquito species of each station (predominantly forest species of *Aedes*) are described with tabular and graphical presentation of results of spraying on larval and adult forms. Assessments of DDT deposits and on the effect of spraying on other insects are noted. Bibliography (6 items).

**Copy seen:** DLC.

**26867. TWINN, CECIL RAYMOND, 1897-**. The blackflies of eastern Canada. (Simuliidae, Diptera), part I-II. (Canadian journal of research, Sept. 1936. v. 14, sec. D, p. 97-150, illus., 7 plates)

Record and descriptions of 23 species and one variety, of which 12 species and the variety are new to science; with notes on habitats, distribution (including the Arctic) species associations, and with keys to subgenera and species including both sexes of adults and the pupae. Bibliography (58 items).

**Copy seen:** DSI-M.

**26868. TWINN, CECIL RAYMOND, 1897-**. Mosquitoes from Baffin Land. (Canadian entomologist. Feb. 1927. v. 59, p. 47-49, illus.)

Note on taxonomy of adult *Aedes nearcticus* and larval *A. alpinus* L.

collected by J. D. Soper near Nettilling Lake in 1925, the first to be received by the Canadian government, from Baffin Island. Bibliography (4 items).

**Copy seen:** DSI-M.

**26869. TWINN, CECIL RAYMOND, 1897-**. Studies of the biology and control of biting flies in northern Canada. (Arctic, Apr. 1950. v. 3, p. 14-26, illus.)

"Contribution no. 2656, Division of Entomology, Science Service, Dept. of Agriculture, Ottawa, Canada." Brief report on projects carried out by the Canadian Division of Entomology and U. S. Bureau of Entomology and Plant Quarantine, for the Canadian Defence Research Board and U. S. Army Committee for Insect and Rodent Control, 1947-48, and by independent Canadians work in 1949. Notes on mosquitoes, black and horse flies at Churchill in Manitoba, Goose Bay in Labrador and Whitehorse in Yukon Territory, and on chemical control studies. Bibliography (6 items).

**Copy seen:** DAI; DLC.

**TWINN, CECIL RAYMOND, 1897-**, see also Brown, A. W. A., & others. Control adult mosquitoes & black flies DDT. 1951. No. 20947.

**TWINN, CECIL RAYMOND, 1897-**, see also Hocking, B., & others. Observations bionomics *N. mosquito* species. 1950. No. 22640.

**26870. TYSLOWITZ, R., and E. B. ASTWOOD.** The influence of the pituitary and adrenal cortex on resistance to low environmental temperatures. (American journal of physiology, Mar. 1942. v. 136, p. 22-31, 6 fig.)

Contains a study on hypophysectomized rats 35-40 days old, exposed to a 0° C. environment; over the first four post-operative days such rats became increasingly sensitive to cold, but thereafter showed a rather constant response to it. Crude pituitary extracts or purified corticotrophin increased the cold-resistance of hypophysectomized animals when administered one hour to 14 days prior to exposure; these extracts were ineffective in the absence of the adrenals but were active after thyroidectomy. Adrenal cortical extracts increased the resistance of hypophysectomized animals without thyroids or adrenals. The protection against cold offered to hypophysectomized rats by pituitary extracts paralleled the corticotropic activity. Bibliography (15 items).

**Copy seen:** DLC.

**26871. TYVOLD, BJARNE.** Beitrag zur Kenntnis der Gattung *Sphyrion* Cuv. (Bergen, Norway. Museum, Aarbok, 1914-15, pub. 1914, nr. 1, p. 1-48, illus., plates 1-2) **Title tr.:** A contribution to the knowledge of the genus *Sphyrion* Cuv.

*Contains* a critical study of the copepodan genus *Sphyrion* Cuv. and data on systematics, synonymy, morphology and geographic distribution of *S. lumpi* parasitic on fishes caught in Finnmark waters (71°13' N.), and also known from Greenland; bibliography (44 items).

**Copy seen:** MH-Z.

**26872. UBRIĀTOVA, E. I.** Issledovaniĭa po sintaksisu ĭakutskogo ĭazyka, I. Prostoe predlozhenie. Moskva-Leningrad, Izd-vo Akademii nauk SSSR, 1950. 304 p. (Akademiiĭa nauk SSSR. Institut ĭazykovedeniĭa. Institut ĭazyka, literatura, istorii i iskusstva ĭakutskogo filiala AN SSSR). **Title tr.:** Research on the syntax of the Yakut language, I. The simple sentence.

*Contains* an introductory chapter on the history of Yakut language study and sections on: word combination and the principle elements of the simple sentence; the object; adverbial phrases (of place, time, purpose, etc.); the apposition; the way of expression of emotions; modal words, etc.

**Copy seen:** DLC.

**26873. UFER, HEINRICH.** Religion und religiöse Sitte bei den Samojeden. Erlangen, Palm & Enke, 1930. iv, 41 p. (Universität Erlangen. Veröffentlichungen des Indogermanischen Seminars, Bd. 5) **Title tr.:** Religion and the religious customs among the Samoyeds.

*Contains* a thesis, based chiefly on Russian printed sources, and dealing with the influence of the Orthodox Church, worship of the heathen gods (Num, Nga, Sjadaĭ), worship of dead ancestors, the *tadibe* (shaman), customs at childbirth, weddings, and funerals. Extensive bibliography (p. 34-41).

**Copy seen:** OCL.

**26874. UGGLA, W. R.** En ny *Seligeria*-Art från Norra Grönland. (Svensk botanisk tidskrift, 1951. Bd. 45, häft. 3, p. 498-500, illus.) **Title tr.:** A new species of *Seligeria* from northern Greenland.

*Contains* a description of a new moss species, *Seligeria groenlandica*, collected by Dr. J. Troelsen, of the Danish Peary Land Expedition 1947-50 in the region of Independence Fjord, 82°19' N. 24°30' W. **Copy seen:** DSI-M; MH-Z.

**UGGLA, W. R.,** see also Nyman, P. O., & W. R. Uggla. Nya mosslokaler från Torneträsk. 1950. No. 24771.

**26875. ULLRICH, HERBERT.** Wärme-haushalt, geographische Verbreitung, Biotop und Akklimatisierung. (Zoologische Garten, 1950. n. s., Bd. 17, no. 1-5, p. 74-84, tables) **Title tr.:** Heat economy, geographical distribution, biotope and acclimatization.

*Contains* an analysis and examples of: acclimatization of domestic animals; relation between climate and fat deposition; heat regulation; preferred temperature and geographical distribution; body temperature (of warm-blooded animals) in relation to the biotope; body size and temperature. Bibliography (25 items).

**Copy seen:** DSI-M.

**26876. ULLRING, E.** På langtur på Svalbard under Krigen; erobringen av den hemmelige tyske stasjon i Signehavna. (Polarboken, 1949, p. 7-26, illus.) **Title tr.:** On a long trip in the Svalbard area during the war; the seizure of the secret German station at Signehavna.

The author, who was the military governor of Svalbard from July 1942 to July 1943, organized and led a reconnoitering expedition, and subsequently seized on June 21, 1943, the German station at Signehavna in Krossfjord, northwest of Kings Bay. German submarine activity in the region is noted. The Norwegians destroyed the station early in July and were then evacuated to Barentsburg by a British submarine.

**Copy seen:** CaMAI.

**26877. UMNÖV, N. N.** Revision der Orthopteren-Fauna des Ural. (Konowia, 1932. Bd. 11, Heft 1, p. 21-88) **Title tr.:** Revision of the Orthoptera fauna of the Ural.

*Contains* a systematic list of 35 species of orthopters of the Ural Mts. region, with localities and occasional critical notes; including *Podismopsis poppiusi* native to the Obdorsk tundra and Ob' River mouth; the other parts of this paper do not contain arctic material.

**Copy seen:** MH-Z.

**26878. UNGER, HELLMUTH, 1891-** Pack-Eis, ein Buch aus dem hohen Norden. Hamburg, Hoffmann und Campe, 1947 [i. e. 1948] 250 p. **Title tr.:** Pack ice; a book about the high North.

*Contains* pt. 1 (p. 5-150) "The voyage

of the *Sv. Anna*," the story of S. Brusilov's expedition 1912-14, in which the ship became beset in ice in Kara Sea, drifted north and disappeared, two survivors reaching Franz Josef Land on the ice Pt. 2 (p. 151-250) "Greely and his men" (originally published as: *Eisland, Roman einer Expedition*, 1928) is an account of the American expedition (as part of the International Polar Year program) to northern Ellesmere Island 1881-1884, the hardships of the party and ultimate rescue of its survivors.

**Copy seen:** DLC.

**26879. U. S. S. R. ARMIĀ. UPRAVLENIE BOEVOĬ PODGOTOVKI.** Nastavlenie dlia deistvii voisk v zimnikh usloviakh. Proekt. Moskva, Gos. voen. izd-vo, 1939. 102 p. **Title tr.:** Instructions on military operations under winter conditions.

A handbook giving brief, numbered instructions, of a general nature, also for the different branches of the army (infantry, tanks, air force, etc.), in regard to actions (attack, defense, etc.), and situations (march, rest, etc.).

**Copy seen:** DLC.

**26880. U.S.S.R. GLAVNOE UPRAVLENIE PO DELAM OKHOTNICH'EGO KHOZIAISTVA.** Pushnye bogatstva SSSR. Moskva, Gos. izd-vo tekhn. i ekon. lit-ry no voprosam zagotovok, 1949. 180 p., illus., tables. **Title tr.:** The fur riches of the U.S.S.R.

Contains a series of articles on economically important fur bearers written by experts. Each article offers data on the life and ecology of the animal; ways of trapping or kill; the pelt and its value; processing the fur; farming, if any extant. In addition to the introductory article (p. 5-16) on hunting and farming of animals in the U.S.S.R., the following deal with arctic forms: polar fox trapping (p. 39-58), and Tyulen (Seal) Island and its hunting treasures (p. 171-79), the latter dealing with the seals and rookeries of this tiny island located near Mys Terpeniya in the Gulf of Tartary (49° N.-146° E.)

**Copy seen:** DLC.

**26881. U.S.S.R. KOMITET PO PROVEDENIŪ 2-GO MEZHDUNARODNOGO POLIĀRNOGO GODA.** Magnitnye nablūdeniia Vtorogo Mezhdunarodnogo PoliĀrnogo Goda, 1932-1933, vyp. 1. Pod redaktsiei N. V. Roze. Leningrad, Gidrometeorologicheskoe izd-

vo, 1937. 123, [2] p., tables. **Title tr.:** Magnetic observations of the Second International Polar Year, 1932-1933, no. 1. Under editorship of N. V. Roze.

Tabular results of observations at Tikhaya Bukhta (Calm Bay) Matochkin Shar, Dikson Island, Kandalaksha and Yakutsk. Each station's data is preceded by introductory remarks on instrumentation methods of observations and working-up the results.

**Copy seen:** DLC.

**26882. U.S.S.R. MINISTERSTVO FINANSOV.** Sibir' pod vlianiem rel'sovago puti. S.-Peterburg, Izd. Redaktsii periodicheskikh izdanii Ministerstva finansov, 1902. 221 p., fold. col. map. **Title tr.:** Siberia and the effect of the railway.

In addition to a history of the Trans-Siberian Railway project and its effect on the economic and cultural life of that region, the book contains chapters on transportation upon the arctic rivers of Siberia and their fish resources; on shipping of the arctic seas and on the timber industry.

**Copy seen:** DLC.

**26883. U.S.S.R. TSENTRAL'NŪ GO. SUDARSTVENNŪY ARKHIV DREV. NIKH AKTOV.** Otkrytiia russkikh zemleprokhodtsev i poliĀrnykh morekhodov XVII veka na Severo-Vostoke Azii; sbornik dokumentov. Sostavlenn N. S. Orlov, pod red. A. V. Efimova. Moskva, Gos. izd-vo geogr. lit-ry, 1951. 619 p., maps, facsim., incl. 19 fold. maps and 1 fold. facsim. in pocket. **Title tr.:** Discoveries of Russian travelers and polar seafarers in northeastern Asia during the 17th century; a collection of documents, assembled by N. S. Orlova under the editorship of A. V. Efimov.

Contains 231 documents or fragments of such, referring directly to geographical discoveries, and presenting incidentally considerable data on early Russian efforts at conquest, material is arranged in chronological order, in the following sections: (1) sea voyages to Mangazeti (a district east of Obskaya Guba, on the Taz River); (2) voyages down the Siberian rivers to the Arctic seas to the time of Dezhnev's voyage in 1648; (3) commercial activities on the Lena and other rivers by merchants of the Gusele-nikovs and Popov; (4) soldiers and hunters of the Yakutsk fort in the 1640's; the march of S. Dezhnev and F. Popov; (5) voyages in the Arctic and Pacific Ocean after Dezhnev's journey of 1648;

(6) the Anadyr fort under the bailiffs of Dezhnev and K. Tranov; (7) soldiers and traders of the Yakutsk fort, preparations for the voyages of 1650-1680; (8) biographical data on S. Dezhnev. Notes on the maps (p. 541-46) and extensive geographical (various forts indexed under "ostrog") and personal indexes (p. 547-99) are included. **Copy seen:** DLC.

**UNITED NATIONS. SECRETARY-GENERAL.** *see* Denmark. Greenland Dept. Report on Greenland 1951. 1951. No. 21419.

**UNITED NATIONS. SECRETARY-GENERAL.** *see also* Denmark. Greenland Dept. Report on Greenland 1952. 1952. No. 21420.

**UNITED NATIONS. SECRETARY-GENERAL.** *see* U. S. Dept. of the Interior. Alaska, information to U. N. 1947. No. 26944.

**U. S. AGRICULTURAL EXTENSION SERVICE.** *see* U. S. Bureau of Reclamation. Alaska . . . water resources. 1949, 1952. No. 26896.

**26884. U. S. AIR FORCE.** Description of Swedish Air Force survival kit for cold weather. Memorandum report. U. S. Air Force. Air Material Command. Wright-Patterson Air Force Base, Dayton, Ohio. MCREXD-670-20F. 14 Dec. 1949. 16 p., illus., reproduced from type-written copy.

*Contains* list with descriptive notes on items (especially folding snow shoes) in the kit, and on its container; discussion and comparison with USAK kit; appendices list Snowshoe kit of Swedish Air Force (with illus.) and Sustainance kit USAF. **Copy seen:** CaMAI.

**U. S. AIR FORCE. ALASKAN AIR COMMAND ARCTIC INDOCTRINATION SCHOOL, Nome, Alaska.** *see* Skyways. Arctic survival. 1949. No. 26259.

**U. S. AIR FORCE. CAMBRIDGE RESEARCH CENTER.** *see* Crary, A. P., & R. D. Cotell. Ice islands in arctic research. 1952. No. 21304.

**U. S. AIR FORCE. WRIGHT AIR FORCE BASE, AEROMEDICAL LABORATORY.** *see* Wilber, C. G., & X. J. Musacchia. Survey of lipids in arctic animals. 1951. No. 27394.

**26885. U. S. ARCTIC AEROMEDICAL LABORATORY.** Ladd Air Force Base,

Alaska. Survey of human adjustment problems in the northern latitudes. Morale survey of personnel assigned to Ladd Air Force Base, by Ernest L. McCollum, Feb. 1951. 39 p., tables.

*Contains* findings of a morale survey which emphasizes the following facts: 33 per cent of the airmen plan to reenlist; the others are younger men who have adjusted poorly to the demands of the service. Those with the lowest morale indicate displeasure with the services provided for them, lack of interesting things to do, inadequate social outlets, lack of faith in military law and framework.—From summary.

**Copy seen:** DSG.

**26886. U. S. ARCTIC AEROMEDICAL LABORATORY.** Ladd Air Force Base, Alaska. Survey of human adjustment problems in the northern latitudes. Study of adjustive, non-adjustive behavior as reflected by variations of shifts in disposition by Air Force personnel assigned to Montana, Pre-Winter, by Anthony Debons. Feb. 1951. 20 p. (tables, diagrs.)

*Contains* a report on the technique and results of a survey, the latter indicating that the background did not appear to have any significant relation to the individual's adjustment status, but the men from the south were less content in Montana than the "northerners"; 35 per cent of the sample were maladjusting, 27 per cent were adjusting and 38 per cent were non-adjusting. Sociability and feelings of independence distinguish the three groups. Criteria for determining the degree of adjustments are given. Bibliography (2 items). **Copy seen:** DSG.

**26887. U. S. ARCTIC AEROMEDICAL LABORATORY.** Ladd Air Force Base, Alaska. Survey of human adjustment problems in the northern latitudes. A study of military offenders, by Ernest L. McCollum, Feb. 1951. 6 p., diagr.

Personality profiles of 33 prisoners confined to the guardhouse were compared with a control group typical of the surrounding military population. "Significant differences were obtained between the validity, psychopathic deviate, the paranoia, and the hypomanic scores on the Minnesota Multiphasic Personality Inventory."—From summary. Bibliography (4 items). **Copy seen:** DSG.

**U. S. ARCTIC AEROMEDICAL LABORATORY.** Ladd Air Force Base, Alaska,

see also Green, J. C. Field test Can. snowmobile. 1949. No. 22195.

**26888. U. S. ARCTIC, DESERT AND TROPIC INFORMATION CENTER.** *New York.* Data on air forces activities in Arctic, Desert and Tropic zones; nine school lectures. New York, Reproduced for Army Air Forces distribution by Training Aids Division, Office of the Assistant Chief of Air Staff, Training, Headquarters Army Air Forces [1944] 9 v. illus., maps.

Contains simple concise presentation in three lectures on each area. Those on the Arctic deal with (1) general conditions of land and sea, climate, forms of life, inhabitants, maintenance of health (22 p. map); (2) maintenance and operations of aircraft (34 p.); (3) survival: clothing, precautions in travel, frostbite, food, etc., (34 p.). **Copy seen:** DLC.

**26889. U. S. ARCTIC, DESERT AND TROPIC INFORMATION CENTER.** *New York.* Medical conditions in arctic regions. (Its: Medical series 1, no. 1, 1944, p. 1-7)

Contains brief account, giving (where applicable) the etiology, symptoms, course, prophylaxis and treatment of disease; data on: acclimatization to arctic conditions; factors in maintenance of heat equilibrium; clinical conditions due to cold, snow blindness, diffuse light, sunburn, insects; care of wounded and injured; fire prevention; sanitation.

**Copy seen:** DSG.

**U. S. ARMY. ARCTIC INDOCTRINATION SCHOOL.** *Big Delta, Alaska,* see also Gibson, E. C. Summer arctic operations. 1952. No. 22099.

**U. S. ARMY. ARCTIC INDOCTRINATION SCHOOL.** *Big Delta, Alaska,* see Hamel, G. F. Army Arctic Indoctrination School. 1950. No. 22388.

**U. S. ARMY. COMMITTEE ON INSECT & RODENT CONTROL,** see Hocking, B., & others. Observ. bionomics N. mosquito species. 1950. No. 22640.

**U. S. ARMY. CORPS OF ENGINEERS,** see *Military engineer.* Alaskan plans & projects. 1949. No. 24342.

**26890. U. S. ARMY. CORPS OF ENGINEERS. FROST EFFECTS LABORATORY, NEW ENGLAND DIV.** *Boston, Mass.* Investigation of description, classification and strength properties of

frozen soils. Fiscal year 1951 report. Wilmette, Ill., Snow, Ice, Permafrost Research Establishment, June 1952. 2 v.: xi, 88 p. 109 plates and append. A, 2 p., 4 plates; v. 2, append. B (investigational data), 17 tables, 153 plates. (SIPRE report no. 8).

"Results of exploratory tests to determine methods to describe, classify, and determine the strength characteristics of frozen soils are presented. Ten types of soils including sands, sandy gravels, silt and clay soils, and one peat soil were artificially frozen and tested. Artificially frozen ice specimens were submitted to the same tests. Results show that the temporary strength of frozen soils increases with decreasing temperature below the freezing point. Clean, cohesionless materials exhibited the highest frozen strengths and clays the lowest. Clean, uniformly graded sand has greater temporary strength in the frozen state than well-graded sandy gravels. The temporary compressive strength of frozen soils is 4-9 times greater at  $-10^{\circ}$  F. than at  $31.5^{\circ}$  F. Ice samples showed no definite correlation of temporary compressive strength with temperature. Peat and clay soils are more susceptible to plastic deformation than the more coarse-grained materials tested. Ice showed the least plastic deformation of all. Studies of ice crystals showed that crystal structure of ice specimens frozen simultaneously with soil specimens is not indicative of ice crystal structure in segregated ice lenses in frozen soil. A tentative description and classification system for frozen soils is appended."—SIPRE.

**Copy seen:** CaMAL.

**U. S. ARMY. CORPS OF ENGINEERS. FROST EFFECTS LABORATORY, NEW ENGLAND DIV.** *Boston, Mass.* see also *Polar record.* U. S. Army frost effects laboratory. 1952. No. 25174.

**26891. U. S. ARMY. CORPS OF ENGINEERS. SNOW, ICE, AND PERMAFROST RESEARCH ESTABLISHMENT.** Bibliography of SIPRE publications, 18 Sept. 1952. Wilmette, Ill. 6.l. mimeographed.

Contains list of 18 research reports, 20 translations, etc. **Copy seen:** CaMAL.

**U. S. ARMY. CORPS OF ENGINEERS. SNOW, ICE, AND PERMAFROST RESEARCH ESTABLISHMENT,** see also Bader, H., & others. Preliminary in-

vestigation...physical properties of snow. 1951. No. 20392.

**U. S. ARMY. CORPS OF ENGINEERS. SNOW, ICE, AND PERMAFROST RESEARCH ESTABLISHMENT**, *see also* Hess, H. Über Elastizitäts-Konstanten Eises (Eng. trans.). 1950. No. 22603.

**U. S. ARMY. CORPS OF ENGINEERS. SNOW, ICE, AND PERMAFROST RESEARCH ESTABLISHMENT**, *see also* Minnesota. University. Institute of Technology. Interim report SIPRE. 1951. No. 24375.

**U. S. ARMY. CORPS OF ENGINEERS. SNOW, ICE, AND PERMAFROST RESEARCH ESTABLISHMENT**, *see also* Minnesota. University. Institute of Technology. Review properties snow & ice. 1951. No. 24376.

**U. S. ARMY. CORPS OF ENGINEERS. SNOW, ICE, AND PERMAFROST RESEARCH ESTABLISHMENT**, *see also* U. S. Army. Corps of Engineers. Frost Effects Lab. Investigation frozen soils. 1952. No. 26890.

**U. S. ARMY. CORPS OF ENGINEERS. SNOW, ICE, AND PERMAFROST RESEARCH ESTABLISHMENT**, *see also* U. S. Army. Engineer Research & Development. Cryological research facilities in N. A. 1951. No. 26892.

**U. S. ARMY. CORPS OF ENGINEERS. SNOW, ICE, AND PERMAFROST RESEARCH ESTABLISHMENT**, *see also* U. S. Library of Congress. Technical Information Division. Annotated bibliography on snow, ice & permafrost. 1951-52. No. 26960.

**U. S. ARMY. CORPS OF ENGINEERS. SNOW, ICE, AND PERMAFROST RESEARCH ESTABLISHMENT**, *see also* U. S. Library of Congress. Technical Information Division. List abbreviations & symbols SIPRE. 1952. No. 26961.

**U. S. ARMY. CORPS OF ENGINEERS. SNOW, ICE, AND PERMAFROST RESEARCH ESTABLISHMENT**, *see also* U. S. Library of Congress. Technical Information Division. List subject headings SIPRE. 1952. No. 26962.

**U. S. ARMY. ENGINEER RESEARCH AND DEVELOPMENT LABORATORIES**, *see* Civil engineering. New army building for Arctic. 1950. No. 21224.

**U. S. ARMY. ENGINEER RESEARCH AND DEVELOPMENT LABORATORIES**, *see also* Military engineer. Arctic clothing problem. 1950. No. 24344.

**U. S. ARMY. ENGINEER RESEARCH AND DEVELOPMENT LABORATORIES**, *see also* Military engineer. Arctic housing. 1950. No. 24345.

**26892. U. S. ARMY. ENGINEER RESEARCH AND DEVELOPMENT LABORATORIES, AND SNOW, ICE AND PERMAFROST RESEARCH ESTABLISHMENT**. Cryological research facilities in North America: A cooperative survey. June 1951. (SIPRE rept. no. 6) 66 p.

"A survey of research facilities in military and non-military organizations in North America was made by means of questionnaires and the files of the Engineering Research and Development Laboratories and the Snow, Ice and Permafrost Research Establishment. Data concerning 30 military groups, 5 government laboratories, 97 educational research institutions, 7 commercial research institutions, 8 industrial research laboratories, and 2 professional societies are presented. Data concerning 6 Canadian organizations are included. The personnel, laboratory facilities, field facilities and current research projects are summarized for each group when such information is appropriate or available."—SIPRE.

*Copy seen:* CaMAI; DLC (SIPRE Project file).

**26893. U. S. ARMY AIR FORCES. AIR TRANSPORT COMMAND. AIR INSTALLATION DIVISION. HEADQUARTERS ALASKAN DIVISION**. Permafrost; studies in connection with engineering projects in arctic and sub-arctic regions, part 1; instructions for measuring ground temperatures. [n. p.] 1944. 1 p. l., 37 p. incl. 14 plates, tables. Process printed. Compiled by Simeon Muller.—ms. note.

Preliminary remarks on the nature of permafrost and use of ground temperature measurements and notes on types of thermometers, and methods for location and use of test pits and drill holes.

*Copy seen:* DGS.

**26894. U. S. BOARD ON GEOGRAPHIC NAMES**. Decisions on names in Alaska, Saint Lawrence Island. Decision list, no. 5102. Washington, D. C., Dept. of the Interior, March 1951. 25 p.

178 approved names, with identification of the geographic feature concerned and unapproved variant names and spellings indicated. **Copy seen:** CaMAI; DLC.

**26895. U. S. BUREAU OF CHEMISTRY AND SOILS. SOIL SURVEY DIVISION.** Soils of Alaska. (*In its:* Soils of the United States. *Pub. in:* U. S. Dept. of Agriculture. Soils and men; yearbook of agriculture 1938. p. 1148-51, illus.)

Brief statements of the geographic setting, climate, native vegetation, parent materials, and soil characteristics; remarks on use of (1) the "Knik-muskeg areas" along the eastern and northern sides of Cook Inlet, including the benches and flats along the western side of Kenai Peninsula and the alluvial lands that border the Matanuska and Susitna Rivers; (2) the "Fairbanks-Tanana-Gilmore area." **Copy seen:** DA; DLC.

**U. S. BUREAU OF LAND MANAGEMENT,** *see* U. S. Bureau of Reclamation. Alaska . . . water resources. 1949, 1952. No. 26896.

**U. S. BUREAU OF MINES,** *see* U. S. Bureau of Reclamation.. Alaska . . . water resources. 1949, 1952. No. 26896.

**26896. U. S. BUREAU OF RECLAMATION. ALASKA DISTRICT OFFICE.** Alaska; a reconnaissance report on the potential of water resources in the Territory of Alaska for irrigation, power production and other beneficial uses . . . [Washington] 1952. xiv, 287 p. front., illus., plates, maps (part fold.), diagrs. (part fold.). (U. S. Congress, 82d, 1st sess. House document 197). Also pub. in a preliminary edition reproduced from typewritten copy and dated May 2, 1949: 324, 3 l. illus., maps, diagrs.

*Contains* an introductory chapter (1) on the purpose of the report: extension of reclamation laws to the Territory of Alaska, investigation of hydroelectric power potentialities with the aim of producing cheap power for existing and potential industries, mining, agriculture, transportation, etc. (2) The land and the people (p. 6-24): physical land characteristics; geological history; regions and river basins; climate; exploration; settlement, population, government. (3) Present development (p. 25-73): fisheries and wildlife resources; timber products; agriculture; minerals; manufacture and trade; transportation and communication; land ownership; utilities; recreation.

(4) A look at tomorrow (p. 74-135): the next 10 years; fisheries and wildlife resources; agriculture and forest products; minerals and mining; manufacture, commerce, transportation, etc. (5) Using the water (p. 136-85): irrigation; drainage; flood control; navigation; municipal and industrial water supply; power. (6) Wealth from water (p. 186-90). (7: p. 191-324). Federal and territorial agencies (18) which cooperated in the production of this report, with statistical and other data on their activities and those phases of Alaskan life and resources with which they are concerned: agriculture, mining, climate, geology, native peoples, fish and wildlife, land, roads and communications, railroad, aeronautics, etc., public health, national parks, hydroelectric power development. This section offers a comprehensive factual survey of conditions in Alaska as of 1948-49, and the developmental programs of these 18 cooperating agencies.

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**U. S. CIVIL AERONAUTICS ADMINISTRATION,** *see* U. S. Bureau of Reclamation. Alaska . . . water resources. 1949, 1952. No. 26896.

**26897. U. S. CIVIL AERONAUTICS BOARD.** Alaska air transportation investigation. Examiner's report. [Washington, 1941]. xi, 405, [27] p., fold. map, tables (part fold.) Reproduced from typewritten copy.

Report on a hearing in Sept. 1939 at Anchorage, Alaska, of "applications for certificates of public convenience and necessity which had been filed by certain air carriers operating" in Alaska. This is an advisory report only, and not the opinion or decision of the Board. It contains discussion and data on air transportation in Alaska, its growth, operating conditions, and volume; on air mail movement, routes, costs, etc.; legal discussion of application to Alaska of the Civil Aeronautics Act; and discussion of applications from individual companies, arranged by area. *Appendices* and tabulations show data on rates, traffic, population of towns, classes and mileage of roads, etc.

**Copy seen:** DLC.

**26898. U. S. COAST AND GEODETIC SURVEY.** Tidal bench marks. Southeast Alaska. [Washington] 1941. vii, 210 p. incl. tables. (U. S. Coast and Geodetic Survey. T-28) Reproduced from typewritten copy.

Descriptions and elevations of bench marks north to Ice Bay, 59°54'30" N. 141°33' W. **Copy seen:** DLC.

**U. S. COAST AND GEODETIC SURVEY**, see also Colbert, L. O. Programming field operations Alaska. 1949. No. 21246.

**U. S. COAST AND GEODETIC SURVEY**, see also Deane, W. F. Muir Inlet ice factories. 1948. No. 21377.

**U. S. COAST AND GEODETIC SURVEY**, see also Earle, R. A. Surveying difficulties Arctic. 1949. No. 21596.

**U. S. COAST AND GEODETIC SURVEY**, see also Earle, R. A. Triangulation N. coast. 1951. No. 21597.

**U. S. COAST AND GEODETIC SURVEY**, see also Hoskinson, A. J. Control surveys Alaska. 1952. No. 22717.

**U. S. COAST AND GEODETIC SURVEY**, see also Jeffers, K. B. Arctic mapping surveys. 1951. No. 22946.

**U. S. COAST AND GEODETIC SURVEY**, see Jeffers, K. B. Operation Coldfoot. 1952. No. 22947.

**U. S. COAST AND GEODETIC SURVEY**, see also Jeffers, K. B. Triangulation parties conquer Arctic. 1951. No. 22948.

**U. S. COAST AND GEODETIC SURVEY**, see also Jones, D. A. Steam boiler arctic surveys. 1952. No. 23016.

**U. S. COAST AND GEODETIC SURVEY**, see also Jones, D. A. Tractor trains in Arctic. 1951. No. 23017.

**U. S. COAST AND GEODETIC SURVEY**, see also Page, W. B. "Handie talkie." 1948. No. 24936.

**U. S. COAST AND GEODETIC SURVEY**, see also Polar record. Work of U. S. Coast & Geodetic Survey, 1946-48. 1950. No. 25176.

**U. S. COAST AND GEODETIC SURVEY**, see also Studds, R. F. A. Combined surveying operations in Alaska. 1951. No. 26513.

**U. S. COAST AND GEODETIC SURVEY**, see also Surveying & mapping. Fed. surv. & map. agencies: U. S. Coast & Geodetic Survey. 1951. No. 26538.

**26899. U. S. COAST GUARD.** International ice observation and ice patrol

service in the North Atlantic Ocean. 1941, 1948. Washington, D. C., U. S. Govt. Print. Off., 1950. 118 p. in 2 pts. plates, tables, charts (part fold.), diags. (Its: Bulletins no. 31, 34). In continuation of reports for 1913-1940, 1943-1949 (see *Arctic Bibliography*, No. 18305).

1941. Soule, F. M. and C. A. Barnes. Physical oceanography of the ice patrol area in 1941. p. 1-62. The major portion of this study is devoted to volume of flow, minimum and mean temperature and temperature-salinity relationships of the Labrador Current in the Grand Banks area, with the influence of Atlantic Current waters included. Beginning on p. 31 is a short discussion of oceanographic observations made between South Wold Island off Labrador (about 53°47' N. 55°55' W.) and Cape Farewell, Greenland (59°47' N. 43°50' W.) July 24-29, 1941; it is accompanied by chart of dynamic topography of the sea surface, and vertical temperature distribution diagram. Data for the season are given in tables.

1948. Soule, F. M., H. H. Carter, and L. A. Cheney. Oceanography of the Grand Banks region and Labrador Sea, 1948. p. 67-118, incl. 20 p. of tables, 15 fold charts and diags., illus. This is a report on work on the Grand Banks during Apr.-June, and in the Labrador Sea and Davis Strait, July 4-Aug. 9, in the U. S. C. G. cutter *Evergreen* (with notes on outfit for oceanographic use). Introductory discussion of suitability of the tender-class cutter (180-foot) when hove-to, in wind velocities ordinarily experienced, for working oceanographic stations successfully. Description of the dynamic oceanographic research in both areas, dealing with the problems of the Labrador Current and other water masses in Davis Strait, and their extension to the limits of the Grand Banks; the volume of flow, velocities, temperature-salinity relationships, and directions. The discussion involves data on the West Greenland Current and Atlantic Current. Throughout, the 1948 material is compared with measurements made prior to 1941. Tables of 1948 data are given, and dynamic topographic maps supported by vertical temperature sections.

**Copy seen:** CaMAI.

**26900. U. S. COAST GUARD.** International ice observation and ice patrol service in the North Atlantic Ocean, season of 1949. Washington, D. C.,

U. S. Govt. Print. Off., 1951. 116 p. diags., maps (part fold.), tables. (*Its*: Bulletin no. 35) In continuation of reports for 1913-1948 (see items above).

*Contains* in the first section by L. A. Cheney (p. 1-48) report on the patrol of 1949. The year was marked by a scarcity of icebergs. Ice conditions were such that the two patrol vessels made no cruises, ice observation service being carried out by aircraft alone. Monthly reports and charts of ice occurrence are given, with chronological tabulation of ice and obstruction reports both south and north of 50° N. lat.; the effect of abnormal barometric pressure distribution on sea ice and icebergs; iceberg census of Baffin Bay.

Pt. 2. Physical oceanography of the Grand Banks region, the Labrador Sea and Davis Strait in 1949, by F. M. Soule (p. 49-116) reports on investigations of the Atlantic Current; the temperature-salinity relationships of the water masses of the Grand Banks region in 1949 and the subnormal volume of the Labrador Current in that region (due to deficient contribution of the West Greenland Current to the Labrador Current); the division of the Labrador Current north of the Grand Banks; the thermal conditions of the intermediate water of the Labrador Sea and the circulation in that Sea, as well as in Davis Strait and southern Baffin Bay; the nearly total absence of the Irminger Current at Cape Farewell in 1949, etc. *Appendix* (p. 89-115) presents tables of oceanographic data assembled, stations occupied, etc.

*Copy seen:* CaMAI; DWB.

**26901. U. S. COAST GUARD.** International ice observation and ice patrol in the North Atlantic Ocean, season of 1950. Washington, D. C., U. S. Govt. Print. Off., 1951. 127 p. tables, fold. charts. (*Its*: Bulletin no. 36)

*Contains* a section by L. A. Cheney (p. 1-59) reporting the 1950 activities and results of five surface cruises by two patrol vessels and 75 ice observation flights by two aircraft: data on ice conditions and their comparison with averages; a general discussion of ice conditions north of 50° N. lat.; radio communications of ice information; analysis of effects of winds and currents on the movement of drift ice and icebergs, with detailed chronological tables of ice conditions and ice obstructions, also monthly ice distribution and monthly isothermal charts.

The second section, Physical oceanography of the Grand Banks region and the Labrador Sea in 1950, by F. M. Soule (p. 61-127) deals with investigations conducted from the oceanographic vessel *Evergreen* as in previous years. Data on circulation, temperature-salinity relationships of the three water masses of the region and comparisons with earlier years; volume of flow and temperature of the Labrador Current in the Grand Banks area, and north of it are given. The division of the Labrador Current into eastern and western branches; northern limits of the Atlantic Current in relation to the strength of the Labrador Current; thermal characteristics of the intermediary water of the Labrador Sea and circulation in that sea; the Irminger Current, its continuing deficiency, causes thereof, etc. are dealt with. *Appendix* (p. 94-127) gives tabulation of the stations occupied and oceanographic data collected on them.

*Copy seen:* CaMAI; DWB.

**26902. U. S. COAST GUARD.** International ice patrol. Washington, D. C., U. S. Coast Guard. Public Information Division, 194? 26 p. illus. sketch maps. (C. G. 171)

*Contains* brief popular account (undated but probably prepared about 1948) of the history and work of the International Ice Patrol in the North Atlantic. It was inaugurated following the International Conference on the Safety of Life at Sea, London, Nov. 1913, the work being carried out by arrangement of the contracting governments, by the U. S. Coast Guard since 1914, excepting 1917, 1918 when no patrols were undertaken, and 1942-45 when international service was suspended. The contractual arrangements are summarized. The ocean currents and icebergs of the Newfoundland-Labrador-Greenland waters are briefly characterized and diagrammed. Nine photographs illustrate ice conditions and patrol vessel.

*Copy seen:* CaMAI.

**U. S. COAST GUARD,** *see also* Chalender, E. R., & H. H. Carter. Iceberg census Baffin B. 1948. 1950. No. 21144.

**26903. U. S. CONGRESS. HOUSE. COMMITTEE ON AGRICULTURE.** Tongass National Forest. Hearings before the Committee on Agriculture, House of Representatives, Eightieth Congress, first session, on H. J. Resolution 205, to authorize the Secretary of

Agriculture to sell timber within the Tongass National Forest. May 26, June 14, July 1, 3, and 9, 1947. Washington, U. S. Govt. Print. Off., 1947. iii, 194 p., fold map.

*Contains* statements of U. S. Government officials, members of the Alaskan Territorial Legislature, and representatives of Indian groups, on a bill which raised complex problems of native rights to the land in question. Includes testimony on the advantages of a pulp mill industry for Alaska, and its potential threat to the fisheries industry.

*Copy seen:* DLC.

**26904. U. S. CONGRESS. HOUSE. COMMITTEE ON CLAIMS.** Fur seal investigation in Alaska. Hearings before a sub-committee of the Committee on Claims, House of Representatives, Sixty-fourth Congress, first session, on the joint resolution providing for payment for services rendered in the fur seal investigation in Alaska. February 23 and 24, 1916. Washington, U. S. Govt. Print. Off., 1916. 96 p. Hearings on the payment of Henry W. Elliott and A. F. Gallagher for their trip to Pribilof Islands in June-Aug. 1913, Elliott's mission was to collect evidence for a congressional committee that the lessees of the seal islands had during their leasehold 1891-1910, killed more seals than were specifically accounted for, in violation of the law.

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**26905. U. S. CONGRESS. HOUSE. COMMITTEE ON FOREIGN AFFAIRS.** Second Polar Year program. Hearings before the Committee on Foreign Affairs, House of Representatives, Seventy-second Congress, first session on H. J. Res. 182, a joint resolution authorizing an appropriation to defray the expenses of participation by the United States Government in the Second Polar Year Program, August 1, 1932, to August 31, 1933 . . . January 26 and 27, February 2, 1932. Washington, U. S. Govt. Print. Off., 1932. ii, 45 p., sketch map.

Evidence of eight scientists from federal government agencies concerned in the program, on its scope, importance, etc. Appropriation proposed was \$30,000. Sketch map shows stations of First International Polar Year, and those proposed for the Second.

*Copy seen:* DLC.

**26906. U. S. CONGRESS. HOUSE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS.** Alaska's vanishing

frontier, a progress report prepared by William H. Hackett staff consultant, at the request of Monroe R. Redden chairman, Subcommittee on Territories and Insular Possessions. Washington, D. C., U. S. Govt. Print. Off., 1951. v, 88 p., tables

*Contains* comprehensive summary on economic conditions and developments in Alaska since 1947. It is based on material gathered in Alaska by Wm. H. Hackett in summer 1951, from government officials, businessmen, laborers, homesteaders, etc. It includes sections on the operation of the new tax system; wages and cost of living; the contract between the U. S. Forest Service and the Ketchikan Pulp & Paper Co. for exploitation of forest timber; legislative industrial incentives; public works progress; railroads; agriculture and fisheries; public health; etc. Supporting data are presented in appendices (p. 56-88) on: the revenue system; text of the timber sale agreement; vehicle and motor fuel taxes; Road Commission program, commissioner's fees and earnings, etc.

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**26907. U. S. CONGRESS. HOUSE. COMMITTEE ON MERCHANT MARINE AND FISHERIES.** Alaska salmon fishery. Hearings before the Committee on Merchant Marine and Fisheries, House of Representatives, Seventy-fifth Congress, third session, on H. R. 8344. February 1 and 2, 1938. Washington, U. S. Govt. Print. Off., 1938. iii, 195 p. incl. tables.

*Contains* statements and testimony of government officials, the chairman of the International Pacific Salmon Fisheries Commission, representatives of labor unions and packing companies, also other interested persons, on a bill to prohibit vessels of foreign origin from fishing for salmon east of the international boundary in Bering Sea, within the 100-fathom depth line. *Appendices* give laws and fishing regulations in Alaska, especially Bristol Bay; also data on catch of Japanese fisheries, Japanese imports and exports of fishery products for 1934, and number of persons and vessels employed in Japanese fisheries, Japanese imports and exports of fishery products for 1934, and number of persons and vessels employed in Japanese fisheries in 1933.

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**26908. U. S. CONGRESS. HOUSE. COMMITTEE ON MERCHANT MA-**

**RINE AND FISHERIES.** Alaskan fisheries. Hearings before a subcommittee of the Committee on the Merchant Marine and Fisheries, House of Representatives, Seventy-Ninth Congress, second session, pursuant to the authority of H. Res. 38, a resolution authorizing investigation of the national defense program as it relates to the Committee on the Merchant Marine and Fisheries. Washington, U. S. Govt. Print. Off., 1946-47. 2 v. (iii, 246 p.)

Testimony, statements and reports contributing to the Committee's authorization to study and investigate "all problems concerning the operation of the Alaska fisheries including the allocation of traps, Indian priorities, regulations and related matters." Discussion of control and restriction of fisheries by a Territorial office rather than the federal Dept. of the Interior; extension of Indian reservations into the commercial fishing area of Alaska; limitations of mobile fishing gear, traps and canneries. **Copy seen:** DLC.

**26909. U. S. CONGRESS. HOUSE. COMMITTEE ON MERCHANT MARINE AND FISHERIES.** Fisheries in Alaska. Hearings before the Committee on the Merchant Marine and Fisheries, House of Representatives, Sixty-seventh Congress, first [-second] session, on H. R. 2394 . . . Washington, U. S. Govt. Print. Off., 1921-22. 2 v. (121 p. paged continuously) tables. Part 2 has subtitle: Hearings before the subcommittee of the Committee on the Merchant Marine and Fisheries on Fish and Fish Hatcheries [etc.] Hearings held Oct. 27, 1921-Jan. 18, 1922.

*Contains* testimony and statements of representatives of cannery owners, salmon-trap operators, fishermen's organizations and Alaskan natives, as well as spokesmen for the Fishery Bureau and other U. S. Government agencies. The bill provides for government regulation of salmon fishing in streams and lakes of Alaska, and for three miles beyond the mouths of streams. It represents the beginning of a struggle to eliminate stationary fish traps from Alaskan waters. **Copy seen:** DLC.

**26910. U. S. CONGRESS. HOUSE. COMMITTEE ON MERCHANT MARINE AND FISHERIES.** North Atlantic International Ice Patrol. Hearings before the Committee on Merchant Marine and Fisheries, House of Representatives, Seventy-fourth Congress, sec-

ond session, on S. 4348, an act to promote safety at sea in the neighborhood of ice and derelicts, and for other purposes. June 10, 1936. Washington, U. S. Govt. Print. Off., 1936. ii, 9 p.

The bill provided for congressional ratification of the renewal of an agreement reached in London, 1929, by The International Convention on Safety of Life at Sea, whereby thirteen other countries agreed to share operating expenses with the United States, the latter carrying out the patrol; an agreement first reached in 1914. **Copy seen:** DLC.

**26911. U. S. CONGRESS. HOUSE. COMMITTEE ON NAVAL AFFAIRS.** *Jeannette* inquiry. Before the Committee on Naval Affairs of the United States House of Representatives, Forty-eighth Congress. Washington, U. S. Govt. Print. Off., 1884. 2 p. l., 1046 p. (48th Cong., 1st sess. House. Misc. doc. 66)

Investigation of alleged unfair treatment of Jerome J. Collins by Lieut. G. De Long on the *Jeannette* arctic expedition (by Bering Strait, Kolyuchin Bay, East Siberian Sea, northwest into the Arctic Basin). Witnesses included J. W. Danenhower, G. W. Melville, and others of the *Jeannette* party, and relatives of deceased members (J. J. Collins, meteorologist, and G. W. De Long, leader). Journals, letters, telegrams and notes (official and unofficial) relating the expedition or to the search for its missing members form part of this record of the hearings. It includes lengthy testimony bearing upon the life and relations of the expedition's personnel, dissensions during the voyage, 1879-81, and the search for survivors in the Lena delta during 1882. **Copy seen:** DLC.

**26912. U. S. CONGRESS. HOUSE. COMMITTEE ON POSTOFFICE AND POST ROADS.** Air mail service for Alaska. Hearings before the Committee on the Post office and Post Roads, House of Representatives, Seventy-sixth Congress, third session, on H. R. 9851 and H. R. 9992, bills authorizing special arrangements in the transportation of mail within the territory of Alaska. June 13, 1940 . . . Washington, U. S. Govt. Print. Off., 1940. iii. 26 p. incl. tables.

*Contains* statements by the Alaska delegate to Congress, representatives of the Post Master General, the National Council on Business Mail, Air Transport Association of America, and the Air

Line Pilots Association, regarding bills calling for star route air mail service throughout Alaska (carrying of all classes of mail without special air mail rates).

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**26913. U. S. CONGRESS. HOUSE. COMMITTEE ON PUBLIC LANDS.** Alaska. Hearings before the Subcommittee on Territorial and Insular Possessions of the Committee on Public Lands, House of Representatives, Eightieth Congress, first session, pursuant to H. Res. 93. Aug. 30, 1947, to Sept. 12, 1947. Washington, U. S. Govt. Print. Off., 1948. iv. 420 p. (*Its*: Committee hearing no. 31)

Hearings were held in Anchorage, Seward, Fairbanks, Juneau, Petersburg, Wrangell, and Ketchikan, and at supplemental visits of the Subcommittee to Point Barrow, Nome, Kodiak and Cordova. Its purpose was to obtain views of Alaskan residents on Alaska statehood, the opening of public lands on expanded basis, on operation of the Alaska Railroad, coastwise shipping, air transport, and overland hauls, and on residents' willingness to bear taxation concomitant with statehood and to contribute to the Federal Treasury as do citizens of other states.

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**26914. U. S. CONGRESS. HOUSE. COMMITTEE ON PUBLIC LANDS.** Alaska veterans' homesteading act of 1947. Hearings before the Subcommittee on Public Lands of the Committee on Public Lands, House of Representatives, Eightieth Congress, first session, on H. R. 868 [and others]. Washington, U. S. Govt. Print. Off., 1947. iii, 260 p. (*Its*: Committee hearing no. 15) Hearings on H. R. 868, H. R. 1548, H. R. 4059, and H. R. 4060, Mar. 24, 25, 31, May 7, 8, June 7, 12, 26, 1947.

Contains statements of veterans organizations, government officials, and residents of Alaska, etc., with numerous letters and quotations from newspapers, mostly voicing decided opposition or approval of the bills, some including also information on agriculture, forest problems, grazing, public lands, and (in general) economic conditions in Alaska. The first two bills, known as the Lemke and Peden bills respectively, included provision for considerably greater acreage in homesteads than earlier laws allowed.

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**26915. U. S. CONGRESS. HOUSE. COMMITTEE ON PUBLIC LANDS.**

Compilation of material relating to the Indians of the United States and the Territory of Alaska, including certain laws and treaties affecting such Indians, by Subcommittee on Indian Affairs. H. R. 66 (81st Cong., 2d Sess.), June 13, 1950. ix, 1110 p., tables, maps. (*Its* Serial no. 30) Washington, U. S. Govt. Print. Off., 1950.

Prepared in the Legislative Reference Service, Library of Congress by Wm. H. Gilbert, and others, a factual analysis of Indian affairs in terms of individual Indian tribes, as an aid in solution of the problems involved in Federal control.

"This paper presents (a) descriptive and statistical summaries by tribes, and (b) legislative analysis by tribes. The first part includes historical summaries, contemporary census data, and statistical material gathered by the field offices of the Indian Bureau. The second part consists of legislative histories of the various tribes. A map is also presented for each important tribal group, showing its location and range, past and present. In addition there have been presented at the beginning, two alphabetical lists: (1) a directory of tribes and bands, and (2) a list of Indian land units. Basic historical accounts for most of the tribes have been extracted from the Handbook of the American Indian. Supplementary census material has been secured from the Indian census reports of 1890, 1910 and 1930. Current data on the tribes as they at present appear on the various reservations are secured from answers to a questionnaire which was submitted to the various area offices of the Indian Bureau . . . The last available facts on Alaskan tribes and bands are contained in the census of 1910. In recent years little attention has been given to tribal subdivisions in Alaskan reports . . . To these may be added the series of economic surveys made of Alaskan native villages, particularly in the period of 1938-41, available in the files of the Indian Bureau and presented here in appendix C."—Introduction, p. 3-5.

Contains 5 parts: (1) directory of tribes and bands; (2) reservations; (3) histories and sociological conditions of tribes; (4) analysis of Federal law, (5) maps of tribes; and 5 appendices on: (a) conditions; (b) finance; (c) Alaskan native villages; (d) tribal government; and (e) tribal and reservation data from

records of the Bureau of Indian Affairs. The directory (p. 9-57) gives name, ethnic affiliation, area, population, of tribe. The maps (Alaska p. 638-39) show Athapaskan and Tlingit Indian, Eskimo and Aleut village groups in 1950 also original range. *Appendix (a)* gives data on Alaskan Indians (p. 650-55): population; land acreage under various types of ownership; agriculture, livestock, timber and other resources; employment; health and disease; housing, clothing, family income; education; tribal units. *Appendix C*, Alaskan native villages (p. 887-1033) lists principal Indian, Eskimo and Aleut tribes with representative villages; gives brief data on about 155 native villages; presents results of economic surveys of more than 60 villages. This is a basic reference work on Alaskan natives. **Copy seen: DLC.**

**26916. U. S. CONGRESS. HOUSE. COMMITTEE ON PUBLIC LANDS.** Protection of Dall sheep, caribou, etc., native to Mount McKinley National Park. Hearings before the Committee on the Public Lands, House of Representatives, Seventy-ninth Congress, second session, on H. R. 5004 and H. R. 5401, bills to provide for the protection of the Dall sheep, caribou, and other wildlife native to the Mount McKinley National Park area, and for other purposes. July 23, 1946 . . . Washington, U. S. Govt. Print. Off., 1946. ii, 55 p., 1 illus.

Statements, letters, and Dept. of Interior reports on bills to make mandatory the reduction of predatory animals (especially wolves) in the Mount McKinley National Park, the Departmental reports opposing the bill. The hearing includes statements of two viewpoints of wildlife conservationists: (1) Adolph Murie's, the park as a theatre for natural selection and biological balance, (2) the need to bring wolves close to extermination. **Copy seen: DLC.**

**26917. U. S. CONGRESS. HOUSE. COMMITTEE ON PUBLIC LANDS.** Providing for the admission of Alaska into the Union. Report to accompany H. R. 5666. [Washington, U. S. Govt. Print. Off., 1948] 18 p. (U. S. 80th Cong., 2d sess., 1948. House. Report no. 1731) Favorable report from the Committee to the House of Representatives, analyzing the bill and presenting data on Alaska's economic and social

conditions in support of the granting of statehood. **Copy seen: DLC.**

**26918. U. S. CONGRESS. HOUSE. COMMITTEE ON ROADS.** The Alaska Highway. An interim report from the Committee on Roads, House of Representatives, pursuant to H. Res. 255, authorizing the Committee on Roads, as a whole or by subcommittees, to investigate the federal road system, and for other purposes. . . . Washington, U. S. Govt. Print. Off., 1946. xiii, 323 p. incl. forms. tables (1 fold.) fold. maps, diagrs. (part fold.). (U. S. 79th Cong. 2d sess. House. Report. 1705)

Report based on an inspection in Aug. 1945 of the highway and its feeder roads, and on "a 4-month investigation of Federal agency records and other pertinent material", showing (1) why the Highway was constructed, (2) its cost, (3) manner in which funds were expended, and (4) the present and future value of the highway. Detailed information on location, condition, routes, construction, maintenance, bridge construction, costs, equipment, capacity, camp, medical and sanitation facilities, disposition of surplus facilities and future of the Highway.

*Appendices A-Q* present maps, charts, tables of mileage and economic statistics, lists of pertinent information (shipping and air traffic) and government reports. **Copy seen: DLC.**

**26919. U. S. CONGRESS. HOUSE. COMMITTEE ON ROADS.** Proposed highway to Alaska. Hearings before the Committee on Roads, House of Representatives, Seventy-seventh Congress, second session, on H. R. 3095, a bill authorizing the construction of a highway to Alaska. February 4, 5, and 6, 1942. Washington, U. S. Govt. Print. Off., 1942. iii, 131 p. incl. tables.

Statements from Alaskan and Canadian government officials and interested citizen groups on the need, and strategic military value of an international highway, later known as the Alaska Highway. The statements include data on type of road, methods and time needed for its construction. **Copy seen: DLC.**

**26920. U. S. CONGRESS. HOUSE. COMMITTEE ON THE TERRITORIES.** Alaska coal lands. Hearings before the Committee on the Territories, House of Representatives, on Alaska coal lands. . . . Washington, U. S. Govt. Print. Off., 1913. 7 v. in 1. (304 p.)

Statements of James Wickersham and seven others in connection with an amendment to the "act [passed in 1908] to encourage the development of coal deposits in the Territory of Alaska." Judge Wickersham spoke to facilitate the settling of coal claims in Alaska made prior to Nov. 1906. The hearings include considerable criticism of the Dept. of the Interior's handling of various sorts of land claims.

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**26921. U. S. CONGRESS. HOUSE. COMMITTEE ON THE TERRITORIES.** Alaska Northern Railroad. Hearing[s] before the Committee on the Territories, House of Representatives, on H. R. 27017 and H. R. 28731, extension of time for completion of the Alaska Northern Railroad . . . Washington, U. S. Govt. Print. Off., 1913. 2 v. (44 p.), tables.

Statements by the railroad's officials, U. S. government spokesman, and others on the extending and financing of this railroad in relation to the possibility of the Government itself developing railroads in Alaska, and taking over this line or part of it.

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**26922. U. S. CONGRESS. HOUSE. COMMITTEE ON THE TERRITORIES.** The building of railroads in Alaska. Hearings before the Committee on the Territories, House of Representatives, Sixty-third Congress, first session, on bills H. R. 1739, H. R. 1806, and H. R. 2145 . . . Washington, U. S. Govt. Print. Off., 1913. 9 pt. (467 p.)

Testimony on "the feasibility and desirability of the Government building railroads in Alaska." Statements of several business men and the Congressional delegate from Alaska (James Wickersham). Includes data on resources and trade of Alaska; comment on their limited development, lack of transportation facilities, activities of various American firms in Alaska; views for and against private also government building and operation of railroads; extended remarks on financing, routes, costs, potential industrial use of railroad, also on the geography and social and economic conditions in Alaska.

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**26923. U. S. CONGRESS. HOUSE. COMMITTEE ON THE TERRITORIES.** Commission form of government in Alaska. Hearings before the Committee on the Territories, House of Representatives, Sixty-third Congress, second session, on H. R. 15763. Washington,

U. S. Govt. Print. Off., 1914. 2 pt. in 1 v. (95 p.)

*Contains* (in pt. 1) letters of Secretaries Lane, Redfield, Houston, McAdoo, and Comptroller of the Treasury Mr. Downey and statement of James Wickersham, June 3 and 5, 1914; in pt. 2, letter of the assistant secretary of war and statement of Albert Johnson, June 12, 1914. Secretary of the Interior Lane's letter is accompanied by a statement "showing the interlocking and overlapping of administrative functions in" Alaska at the time the bill was introduced; also practical difficulties arising from this situation as they affected the people settling in Alaska.

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**26924. U. S. CONGRESS. HOUSE. COMMITTEE ON THE TERRITORIES.** Construction of Alaska railroad. Hearings before the Committee on the Territories, House of Representatives, Sixty-sixth Congress, first session, on H. R. 7417, authorizing the appropriation of the sum of \$17,000,000 in addition to the sum of \$35,000,000 heretofore authorized and appropriated for the construction of a railroad in Alaska between Seward and Fairbanks, with necessary sidings, spurs, and lateral branches. July 23, 24, 25, and 31, 1919. Washington, U. S. Govt. Print. Off., 1919. 201 p., 3 fold. maps.

Need for a supplementary appropriation to complete the last third of the Alaska Railroad rose from increased costs of construction following World War I. Text of the original bill passed in 1914 and present bill (covering additional funds) are given; also (1) memoranda from the Secretary of Interior reporting on Government purchase of the former Alaska Northern Railway, high caliber of work and management to date: labor policy, engineering construction and cost; (2) estimates (in detail); reports on resources of tributary regions, need for the railroad, requirements for its completion, its potential traffic. The hearings include considerable information on conditions of work and industry in Alaska, with extensive quotations from newspapers and other periodicals in support of the bill.

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**26925. U. S. CONGRESS. HOUSE. COMMITTEE ON THE TERRITORIES.** Government for Alaska . . . Sixty-first Congress, second session. Washington, U. S. Govt. Print. Off., 1910. 3 v. in 1 (125 p.)

Statements of three residents of Alaska on bills to create a legislative council in the Territory of Alaska; discussing need for territorial government, the reliability of census figures, and conditions generally in Alaska.

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**26926. U. S. CONGRESS. HOUSE. COMMITTEE ON THE TERRITORIES.** Government for Alaska . . . Sixty-first Congress, second session. Washington, U. S. Govt. Print. Off., 1910. 4 v. in 1 (70 p.)

Statements of four Alaskan residents on the form and powers of the proposed Territorial legislature, particularly on whether it should be an elective or appointive body.

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**26927. U. S. CONGRESS. HOUSE. COMMITTEE ON THE TERRITORIES.** Hearings before the Committee on the Territories, House of Representatives, Seventy-ninth Congress, second session, pursuant to H. R. 4785, H. R. 6431 and H. R. 6486, bills to authorize an appropriation for the establishment of a Geophysical Institute at the University of Alaska. May 10 and 11, 1946. Washington, U. S. Govt. Print. Off., 1946. iv, 60 p.

Testimony of scientists of government agencies in Washington and Alaska on need for, and proposed scope of the Institute, with (p. 17) outline of subjects for study.

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**26928. U. S. CONGRESS. HOUSE. COMMITTEE ON THE TERRITORIES.** Hearings before the Committee on the Territories of the House of Representatives on conditions in Alaska . . . Washington, U. S. Govt. Print. Off., 1912. 7 v. (169 p.)

Statements of officials and residents of Alaska, Bishop P. T. Rowe, Governor Walter E. Clark, James Wickersham and others, concerning: the health and welfare of Eskimos and Indians; need of social services for native and white population, increased transportation facilities by water, roads and railroad, revision of laws relating to mining and public lands, development of coal lands, etc.

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**26929. U. S. CONGRESS. HOUSE. COMMITTEE ON THE TERRITORIES.** Hearings before the Committee on the Territories of the House of Representatives, on H. R. 38, to create a Legislative Assembly in the Territory of Alaska, to confer legislative powers thereon,

and for other purposes. Washington, U. S. Govt. Print. Off., 1911. 108 p.

Testimony of James Wickersham (then congressional delegate from Alaska) answering objections to the bill, describing, under question, the political, social and economic conditions in Alaska, and strongly urging passage of the bill.

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**26930. U. S. CONGRESS. HOUSE. COMMITTEE ON THE TERRITORIES.** Hearings before the Committee on the Territories of the House of Representatives on the bill H. R. 18526, to construct a railroad and telegraph line in the district of Alaska, and the bill H. R. 18533, to aid in the construction of a railroad and telegraph and telephone line in the Territory of Alaska. February 2, 6, and 9, 1905. Washington, U. S. Govt. Print. Off., 1905.

Statements and testimony by representatives of the company seeking federal aid (by this bill) for construction of railroad and telegraph; also testimony by others on natural resources of Alaska (particularly coal) which would immediately be served, with remarks on costs of transportation generally in Alaska.

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**26931. U. S. CONGRESS. HOUSE. COMMITTEE ON THE TERRITORIES.** Hearings before the Committee on Territories of the House of Representatives, on transportation in Alaska . . . Washington, U. S. Govt. Print. Off., 1912. 4 pt. in 1 (120 p.)

Contains statements accompanied by letters to the six spokesmen, in support of a railroad for Alaska. The testimony represents varying views of legislators, business men and organizations on government versus privately-owned railroads, on costs, routes, and the ever-present problem of need for self-government in Alaska.

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**26932. U. S. CONGRESS. HOUSE. COMMITTEE ON THE TERRITORIES.** Hearings before the Committee on the Territories of the House of Representatives, on transportation in Alaska. Statement of Mr. O. P. Hubbard, Valdez, Alaska. February 27, 1912. Washington, U. S. Govt. Print. Off., 1912. 20 p.

The spokesman for Valdez states the case for that town as the terminus of an Alaskan railroad and adds testimony on the need for a railroad in Alaska.

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**26933. U. S. CONGRESS. HOUSE. COMMITTEE ON THE TERRITORIES.**

To conduct a study and investigation of the various questions and problems relating to the Territory of Alaska. Hearings before the Committee on the Territories, House of Representatives, Seventy-ninth Congress, first session, pursuant to H. Res. 236, a resolution directing the Committee on the Territories to conduct a study and investigation of various questions and problems relating to the Territories of Alaska and Hawaii . . . Washington, U. S. Govt. Print. Off., 1946. v. 236 p., fold. map.

Testimony in hearings held at Ketchikan, Juneau, Anchorage, and Fairbanks, Aug. 4-17, 1945, representing views of various organizations labor unions, business men, also letters, newspaper articles, text of laws and regulations, brought before the committee in support of: (1) statehood for Alaska; (2) highway construction; (3) revision of certain restrictions in financing by municipalities; (4) election of the governor of Alaska; (5) change from the existing control by the Dept. of Interior, especially in regard to native rights; (6) regulation of various types of fisheries; (7) control of withdrawal of land into public domain; (8) changes in timber permits; (9) aid for public health and education, public power, and various individual or local problems. **Copy seen:** DLC.

**26934. U. S. CONGRESS. HOUSE. COMMITTEE ON WAYS AND MEANS.**

The Alaska Commercial Company . . . Report. [Washington, U. S. Govt. Print. Off., 1876]. 143 p. (U. S. 44th Cong., 1st sess. House Rept. 623)

Contains the Committee's report (p. 1-13) on an investigation into "the lease made between the United States and the Alaska Commercial Company, of the right to kill fur-seals on the islands of Saint George and Saint Paul in Alaska," under the following heads: (1) was the lease made in pursuance of law, (2) was it to the best advantage of the United States, (3) were the interests of the United States properly protected by stipulations of the lease, and (4) had the Alaska Commercial Co. complied with its terms and conditions, and with the provisions, regulations, and limitations of the act of Congress, July 1, 1870 (under which lease was let)? The Committee reported affirmative answers to all four questions, pointed out that the policy or impolicy

of the law, under which the lease was made, was outside their inquiry, and appended (p. 14-143) the testimony on which the report was based.

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**26935. U. S. CONGRESS. SENATE. COMMITTEE ON COMMERCE.** Alaska fur seals. Hearing before the Committee on Commerce, United States, Sixty-ninth Congress, first session, on S. 3679, a bill to amend an act entitled "An act to prevent the extermination of fur-bearing animals in Alaska," etc. June 10, 1926 . . . Washington, U. S. Govt. Print. Off., 1926. ii, 84 p. incl. tables.

Hearing on a bill for the measurement, setting of minimum size, the recording and marking of fur-seal skins on the Pribilof Islands. Testimony of H. W. Elliott in support of the bill with statistical data, documents, etc., showing current practices by lessees under government contract in taking seals and curing the skins; also report and statement from Secretary of Commerce relating to Elliott's testimony. Testimony on the original bill was heard before this congressional committee in 1922 and 1923, and published under the title: *Fur seals. Hearings . . . on S. 3731, 1923, q. v.* **Copy seen** DLC.

**26936. U. S. CONGRESS. SENATE. COMMITTEE ON COMMERCE.**

Alaska water transportation. Hearings before the Committee on Commerce, United States Senate, Sixty-sixth Congress, second session, relative to S. 4012, a bill to provide for the improvement of transportation by water to and from and within the Territory of Alaska, and for other purposes. March 25, 26, 27, 29, and 30, 1920. Printed for the use of the Committee on Commerce. Part I. Washington, U. S. Govt. Print. Off., 1920. 183 p., incl. tables. No more parts were issued.

Testimony by persons in disagreement with aspects of this bill which affected public carriers (of freight and passengers) to and from Alaska and on the inland waterways in respect to their rates, services, and extension of routes to remote areas. **Copy seen:** DLC.

**26937. U. S. CONGRESS. SENATE. COMMITTEE ON COMMERCE.**

Arctic weather reporting stations. Report. <To accompany S. 765> [Washington, U. S. Govt. Print. Off., 1945] 5 p. (U. S. 79th Cong., 1st sess. Senate. Report 656)

Favorable report (without text of bill or amendments) containing a brief discussion of need and value of such stations to meteorology, air travel and national security.

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**26938. U. S. CONGRESS. SENATE. COMMITTEE ON COMMERCE.** Fur seals. Hearings before the Committee on Commerce, United States Senate, Sixty-seventh Congress, second and fourth sessions, on S. 3731, a bill to prevent the extermination of fur-bearing animals in Alaska. Washington, U. S. Govt. Print. Off., 1923. 204 p.

Testimony of Henry W. Elliott with statistical data and supporting documents to show that the taking of fur seals on Pribilof Islands by lessees of the U. S. Government, and the sale of skins to one house (Fouke Fur Co., of St. Louis, Mo.) was being carried on to the Government's disadvantage. Includes considerable information on the method of taking the seals, processing the skins, sizes, ages, etc., of the seals, and prices.

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**26939. U. S. CONGRESS. SENATE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS.** Alaska Indian reservations. Hearing before the Committee on Interior and Insular Affairs, United States Senate, Eighty-first Congress, second session, on orders of Secretary Julius A. Krug creating certain Indian reservations in Alaska. Feb. 2, 1950. Washington, U. S. Govt. Print. Off., 1950. iii, 50 p.

Statements of Governor Gruening and Alaskan Delegate to Congress E. L. Bartlett, with related documents, etc., on social, economic and political discrimination suffered by Eskimo and Indian natives in Alaska; testimony to show how proposed reservations will reinforce discriminatory practices; also how hunting and other aboriginal rights may be safeguarded without disadvantages of reservations.

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**U. S. CONGRESS. SENATE. COMMITTEE ON INTERIOR AND INSULAR AFFAIRS,** *see also* U. S. Library of Congress. Law Library. Foreign Law Section. Russian administration Alaska. 1950. No. 26958.

**26940. U. S. CONGRESS. SENATE. COMMITTEE ON INTERSTATE AND FOREIGN COMMERCE.** Alaskan shipping. Hearings before a subcommittee

of the Committee on Interstate and Foreign Commerce, United States Senate, Eightieth Congress, second session on S. 1834 . . . [and others] Apr. 14, 15, and June 7, 1948. Washington, U. S. Govt. Print. Off., 1948. iv, 259 p.

Hearings on Senate bills 1834 and 2092 and Senate joint resolutions, 218, 219 and 222, providing for certain ocean transportation services, to, from, and within Alaska. Testimony (of 18 witnesses, including the Governor and Congressional Delegate of Alaska, representatives of Government and transportation companies), deals with the inadequacy of shipping service between the U. S. and Alaska as operated by a small group of associated companies; high shipping rates; advantages and disadvantages of admitting Canadian shipping companies to this trade; hardships to residents of Alaska resultant from shipping legislation in force.

An article *Monopoly at Alaska's throat* by Richard L. Neuberger is reprinted (on p. 63-65) from *The Nation*, Mar. 13, 1948, v. 166, p. 300-301.

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**26941. U. S. DEPT. OF AGRICULTURE.** Die Pelzversorgung der Vereinigten Staaten; eine Sonder-Darstellung zur Ausstellung der Regierung der Vereinigten Staaten auf der Internationalen Pelzfach-Ausstellung Leipzig, 1930. Washington, D. C., Vereinigten Staaten Regierungs-Druckerei, 1930. 55 p. illus. **Title tr.:** The fur supply of the United States; a special report for the exhibition of the U. S. Government at the International Fur Trade Exposition, Leipzig, 1930.

*Contains* sections on fur supply; raising of fur animals; the Alaskan fur industry on the Pribilof Islands (by Ward T. Bower, dealing with seal and blue fox, p. 36-47); international fur trade and a description of the exhibition of the U. S. Government.

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**U. S. DEPT. OF AGRICULTURE,** *see also* Irwin, D. L. Status & accomplishments of agricultural research in Alaska. 1952. No. 22839.

**26942. U. S. DEPT. OF AGRICULTURE. BUREAU OF AGRICULTURAL ECONOMICS.** Markets for the products of cropland in Alaska. Progress report, Washington, D. C., July 1950. 50 p. illus., diagr., tables, map. Process print.

Published in cooperation with Alaska Agricultural Experiment Station.

Contains an account of the current agricultural production of Alaska; current market for such products, its size and location, particularly the U. S. Armed Forces and non-military commissaries, etc.; market facilities, and transportation; future markets and crop-land developments required.

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**26943. U. S. DEPT. OF AGRICULTURE. BUREAU OF AGRICULTURAL ECONOMICS.** Some economic aspects of farming in Alaska, with chief attention to the Matanuska Valley. Progress report. Washington, D. C., Jan. 1950. 89 l., illus., tables. Process print. Published in cooperation with Alaska Agricultural Experiment Station.

Contains information and data on markets, market facilities and transportation in Alaska; on the areas studied, community facilities, cleared land, dairy farming, potato and vegetable farming, livestock and poultry farming, physical and financial requirements for farming (power and equipment, buildings, capital, credit, etc.). Bibliographical footnotes.

This is progress report of a study undertaken by the Bureau for the Dept. of the Interior—Dept. of Agriculture five-man Committee on Group Settlement in Alaska.

**Copy seen:** CaMAI.

**U. S. DEPT. OF THE ARMY. OFFICE OF THE QUARTERMASTER GENERAL. MILITARY PLANNING DIVISION. RESEARCH AND DEVELOPMENT BRANCH. ENVIRONMENTAL PROTECTION SECTION,** see Dutilly, A. A. Bibliography relation mosquitoes to vegetation. 1950. No. 21582.

**26944. U. S. DEPT. OF THE INTERIOR.** Alaska, information on the Territory of Alaska transmitted by the United States to the Secretary-General of the United Nations pursuant to article 73 (c) of the charter. Prepared by the Department of the Interior in cooperation with the Governor of Alaska. Washington, D. C., June, 1947. 25 p., 16 plates, reproduced from typewritten copy.

Contains summary with statistical data on geography, people, history and government; economic conditions; social conditions (human rights, labor force, wages, unemployment benefits, public health); educational conditions.

**Copy seen:** DLC.

**26945. U. S. DEPT. OF THE INTERIOR. OFFICE OF TERRITORIES.** Alaska 1951. Washington, U. S. Govt. Print. Off., 1951. 35 p., illus., map, tables.

Small handbook of information for tourist or settler, with condensed facts on temperature, industries, living conditions, employment opportunities, and social services; also (in some detail) the Alaska Highway and its regulations, use, and facilities; the railroad, other highways and transportation lines.

**Copy seen:** DI.

**26946. U. S. DEPT. OF THE INTERIOR. OFFICE OF TERRITORIES.** Mid-century Alaska. [Washington, U. S. Govt. Print. Off., 1951] xi, 155 p., illus., fold. map.

General information concerning Alaska's physical features, history, climate, transportation, communications, peoples, cities and towns, social services, veteran rights, homesteading, employment opportunities, industry, natural resources and wildlife. Also selected reference material on maps, tourist attractions, territorial emblems, etc., and special celebrations (ice pools, and others).

**Copy seen:** DGS.

**26947. U. S. DEPT. OF THE INTERIOR. PRIBILOF ISLANDS SURVEY GROUP.** Pribilof Island survey reports. Observations and recommendations. Washington, 1949. 13, 5, 3 numb. 1. mimeographed.

Report (13 l.) of a group (M. A. Dawber, L. T. Oldroyd, J. R. Nichols, and A. E. Day) designated by the Secretary of the Interior to make a factual study of the living conditions and human problems of the natives of the Pribilof Islands. The study was conducted on St. Paul Island, Oct. 2-9, 1949. Authors note that 80 per cent of the world's fur seals summer on these islands, and that the U. S. Government manages the herds. They quote and discuss sections of the Fur Seal Act of Feb. 26, 1944, which deal with U. S. Government responsibility to the natives; state their findings in regard to income, physical condition, schools, medical facilities, and housing. They find conditions of Pribilof Island natives on a par with those of the best native communities in Alaska and criticism of U. S. Fish and Wildlife Service administration there unwarranted. They summarize the poor housing, health and economic conditions

of other settlements in the Bering Sea area, make recommendations for future improvement of conditions in these low-standard communities as well as specific suggestions for Pribilof Islands welfare.

*Appended* (5 l.) is a "Personal report of L. T. Oldroyd and M. A. Dawber" non-government members of the group, answering criticism of the Islands' administration which had made the survey necessary. They deal with alleged restrictions on natives' freedom of living, lack of native voice in local government, denial of natives to engage in private enterprise, poor food, severity of punishment, insufficient sanitary and educational facilities, etc.; and find criticisms in the main unwarranted, recommend larger appropriation and undivided administration. At end (3 l.) is "Special report on dairy herd," by Lorin T. Oldroyd, q. v.

The Survey Group's reports are reviewed in F. Martin's *Three Years of Pribilof progress*, 1950, q. v.

**Copy seen:** DAI.

**26948. U. S. FISH AND WILDLIFE SERVICE.** Alaska fishery and fur seal industries: 1946-1947. Washington, 1948-50. 2 nos., illus., tables. (*Its*: Statistical digest no. 17, 20)

Continuation by W. T. Bower of an annual report, 1911-45 (see *Arctic Bibliography* No. 18278 for its scope). Some of the data are published as interim reports for use of the fishery trade: *Alaska fisheries*, 1948-1949 (mimeographed), gives statistics (only) on persons employed, catch, products for market, etc. These data are later to be incorporated (with occasional changes) in *Statistical digest*. **Copy seen:** DI.

**26949. U. S. FISH AND WILDLIFE SERVICE.** Laws for protection of the commercial fisheries of Alaska and related information 1951. [Washington, U. S. Govt. Print. Off., 1951] 61 p. (Regulatory announcement 31)

Preliminary material (p. 1-14) includes oyster culture, Bristol Bay residence requirements, halibut fishing and preservation, the Annette Island, Aleutian Islands, Karluk and Tyonek Reserves, and native possessory rights; regulations for commercial fisheries, effective Apr. 7, 1951 (p. 15-61). **Copy seen:** DLC.

**U. S. FISH AND WILDLIFE SERVICE,** see also King, J. E. Experimental fishing trip Bering Sea. 1949. No. 23254.

**U. S. FISH AND WILDLIFE SERVICE,** see also Schaefers, E. A. *John N. Cobb's* shellfish explor. 1950. 1951. No. 25915.

**U. S. FISH AND WILDLIFE SERVICE,** see also U. S. Bureau of Reclamation. Alaska . . . water resources. 1949, 1952. No. 26896.

**U. S. FOREST SERVICE,** see U. S. Bureau of Reclamation. Alaska . . . water resources. 1949, 1952. No. 26896.

**U. S. GEOLOGICAL SURVEY,** see Fitzgerald, G. A. New reconnaissance maps Alaska. 1952. No. 21826.

**U. S. GEOLOGICAL SURVEY,** see also U. S. Bureau of Reclamation. Alaska . . . water resources. 1949, 1952. No. 26896.

**26950. U. S. GEOLOGICAL SURVEY. MAP INFORMATION OFFICE.** Maps of Alaska. Washington, D. C., 1950.

Contains brief description of various types of maps and charts of Alaska published by Federal government agencies.

**Copy seen:** DGS.

**26951. U. S. HYDROGRAPHIC OFFICE.** Arctic solar illumination diagram. U. S. Pilot Chart North Pacific Ocean, June 1949. 1 l.

"A large diagram showing character of solar illumination north of 50° N. by latitude and season—total night, astronomical and civil twilight (sun 16° and 7° below horizon), continuous day and alternate day and night."—*Meteorological abstracts and bibliography*, Apr. 1951. v. 2, no. 4, p. 316. **Copy seen:** DN-HO.

**26952. U. S. HYDROGRAPHIC OFFICE.** A functional glossary of ice terminology. Washington [U. S. Govt. Print. Off.] 1952. xv, 88 p. incl. 55 plates (H. O. pub. no. 609)

Revised enlarged edition of H. O. pub. no. 103 (which was confined largely to arctic sea ice, see *Arctic Bibliography*, No. 18363) with additional land ice definitions and emphasis equally on antarctic terms. The publication aims to standardize ice terminology and usage, to facilitate the classification and description of ice and to develop a better understanding of the nature and properties of ice. It contains a glossary of about 400 terms in sea, land, river and lake ice, with 110 photographic illus. of various types of ice and related features. Bibliography (36 items).

**Copy seen:** CaMAI; DN-HO.

**26953. U. S. HYDROGRAPHIC OFFICE.**

List of lights and fog signals, vol. I. The coasts of North and South America (except the coasts of continental U. S. A. and Alaska), the West Indies and the Hawaiian Islands. Corrected to Jan. 1, 1952. Washington, U. S. Govt. Print. Off., 1952. 728 p., fold. map. (H. O. Pub. no. 30, 1952) Issued annually since 1888.

Includes the coasts of West Greenland, Hudson Bay and Strait, and Labrador.

**Copy seen:** DN-HO.

**26954. U. S. HYDROGRAPHIC OFFICE.**

List of lights and fog signals, vol. V. Norway, Iceland, and Arctic Ocean. Corrected to Jan 1, 1952... Washington, U. S. Govt. Print. Off., 1952. 627 p., fold. map, (H. O. Pub. no. 34, 1952) Issued annually since 1888.

Gives number, name and location, geographic position, characteristic and power, height above high water, visibility in nautical miles, type and height of structure and remarks for the coasts of Norway, Soviet Union, and West Spitsbergen.

**Copy seen:** DN-HO.

**26955. U. S. HYDROGRAPHIC OFFICE.**

Sailing directions for East Greenland and Iceland; Greenland from Prince Christian Sound to Cape Morris Jesup, Iceland and the island of Jan Mayen. 2d ed. 1951. Washington, U. S. Govt. Print. Off., 1951. xxvi, 432 p. (loose-leaf) illus., fold. col. map (in pocket). (H. O. Pub. no. 75)

Contains a consolidation of the first edition 1943 (*Arctic Bibliography*, No. 18371), with selected supplementary corrections, etc., to July 7, 1951. Introductory part offers information on technical terminology applied, hydrographic publications and navigational aids available at the Hydrographic Office and other Bureaus, sources of present publication, etc. Arrangement and content of chapters are essentially the same as in the first edition excepting glossary, etc., transferred to appendix.

**Copy seen:** DN-HO.

**26956. U. S. HYDROGRAPHIC OFFICE.**

Sailing directions for Northern Canada; the coast of Labrador northward of St. Lewis Sound, the northern coast of the Canadian mainland, and the Canadian Archipelago. 2d ed. Washington, U. S. Govt. Print. Off., 1951. xxvi, 582 p. (loose-leaf) col. chart (in pocket). (H. O. Pub. no. 77)

Contains a consolidation of the first edition, 1946 (*Arctic Bibliography*, No. 18370), with selected supplementary corrections, etc., to Oct. 6, 1951. Introductory part offers information on technical terminology applied, hydrographic publications and navigational aids available at the Hydrographic Office, and other bureaus, sources of this publication, etc. Arrangement and content of chapters and appendices are essentially the same as in the first edition, excepting Eskimo glossary transferred to appendix.

**Copy seen:** DN-HO.

**26957. U. S. HYDROGRAPHIC OFFICE.**

Sailing directions for the east coast of Siberia, Mys Otto Shmidt to Sakhalinskiy Zaliv (Sakhalin Gulf). 2d ed. Washington, U. S. Govt. Print. Off., 1952. xxvi, 354 p. (loose-leaf) illus., charts (1 col. in pocket). (H. O. Pub. no. 122A)

Contains a consolidation of the first (1947) edition (*Arctic Bibliography*, No. 18372) with selected supplementary corrections, etc. to Sept. 15, 1951. Introductory part has information on terminology, publications and navigational aids available at the Hydrographic Office and other Bureaus, sources, etc. Arrangement and content of chapters are essentially the same as in the first edition, excepting glossary of Russian nautical and geographic terms transferred to appendix.

**Copy seen:** DN-HO.

**U. S. LIBRARY OF CONGRESS, see** Shea, J. E., & M. W. Ayton. Cold weather operation Diesel. 1952. No. 26095.

**26958. U. S. LIBRARY OF CONGRESS. LAW LIBRARY. FOREIGN LAW SECTION.**

Russian administration of Alaska and the status of the Alaskan natives. Washington, U. S. Govt. Print. Off., 1950. v, 99 p. (U. S. Congress, 81st, 2d sess., Senate doc. no. 152) Prepared by Dr. Vladimir Gsovski for the Senate Committee on Interior and Insular Affairs.

Administrative history from 1749-1867, showing acts, decrees, charters, boundaries, status of natives, nature of the Russian American Co., identification of individual Alaskan tribes. *Appendices:* 1. Survey of the Russian laws and decrees dealing with Alaska and printed in the Russian official collections. 2. Excerpts from the second (1821) and third (1844) charters of the Russian American Co.

3. Description of the status of Alaskan natives other than Aleuts given in the Russian sources prior to 1867, and in the report on the tenth U. S. Census (1880). 4. Decision, May 16, 1904, *in re* naturalization of John Minook. 5. Survey of the Russian material available in the Library of Congress on the status of the Alaskan natives under the Russian regime. 6. List of materials copied from the Russian archives and kept in the Manuscript Division of the Library of Congress.

**Copy seen:** DLC.

**U. S. LIBRARY OF CONGRESS. LEGISLATIVE REFERENCE SERVICE.** *see* U. S. Congress. House. Committee on Lands. Compilation Indians of U. S. & Alaska. 1950. No. 26915.

**26959. U. S. LIBRARY OF CONGRESS. REFERENCE DEPARTMENT.** Soviet geography, a bibliography. Washington, D. C., 1951. 2 pt. xii, xx, 668 p. numbered continuously.

*Contains* 4,421 entries in a broad subject (part 1) and regional (pt. 2) arrangement, with author and specific subject indexes appended. The first part includes such subjects as geographical science; explorations; historical, physical, economic, political and military geography; cartography; bibliography, etc. Pt. 2 contains literature on the administrative, natural and economic regions including the Northern European section (p. 361-78), Urals, Siberia, the Far East, etc.

This bibliography, it is stated, "does not delve deeply into publications pertaining to the Arctic regions, geology, atlases and maps . . . [nor] into the anthropogeography . . . except for a few representative titles." Nevertheless, it provides through its index (Alaska, Aldan, Apatite, Arctic, Barents, Bering, etc.) a useful entree to a considerable literature on the North. For each item, a holding library is indicated, and in the case of the Library of Congress, a call number is given.

**Copy seen:** DLC.

**26960. U. S. LIBRARY OF CONGRESS. TECHNICAL INFORMATION DIVISION.** Annotated bibliography on snow, ice, and permafrost. Washington, D. C., 1951-1952. 2 v.: v, 226; 356 p. (SIPRE report no. 12, v. 1 (Sept. 15, 1951) - 2 (July, 1952))

*Contains* in v. 1, introductory outline of scope and organization of the project, followed by 780 abstracts prepared by

the Library of Congress, 318 abstracts and 580 references assembled by Purdue University, and 78 abstracts prepared by the University of Minnesota. Author and subject indexes accompany the Library of Congress abstracts. The Purdue and Minnesota materials are arranged in alphabetic order by author. Vol. 2 consists of 1620 abstracts prepared by Library of Congress personnel. The abstracts are arranged in numerical order and are supplemented by an author and a subject index. The second volume deals chiefly with construction in permafrost areas and frost action in soils.

These are the first two volumes of a bibliography planned to be issued semi-annually. The abstracts are likewise published weekly on 5 x 3 cards for authorized users. The work is carried out under contract with U. S. Army Engineers, Snow, Ice and Permafrost Research Establishment, and is directed by John Sherrod, formerly by Donald G. Yerg.

**Copy seen:** CaMAI; DLC.

**26961. U. S. LIBRARY OF CONGRESS. TECHNICAL INFORMATION DIVISION.** List of abbreviations and symbols, issued for the Snow, Ice and Permafrost Establishment, Corps of Engineers, Wilmette, Illinois. Washington, May 1952. 14 l.

List (mainly) of journals cited in abstracts issued on cards by the SIPRE Project in Library of Congress. More than 200 journals are listed and they indicate (except for Finnish and Russian journals, not cited in abbreviated form) the range of this Project.

**Copy seen:** DLC.

**26962. U. S. LIBRARY OF CONGRESS. TECHNICAL INFORMATION DIVISION.** List of subject headings, third edition, issued for the Snow, Ice and Permafrost Research Establishment, Corps of Engineers, Wilmette, Illinois. Washington, October, 1952. iv, 41 l.

Subject headings used in the catalogs of the SIPRE Project, SIPRE's abstracting unit in Library of Congress. Supersedes list of Dec. 1951.

**Copy seen:** DLC.

**U. S. NATIONAL PARK SERVICE, *see*** U. S. Bureau of Reclamation. Alaska . . . water resources. 1949, 1952. No. 26896.

**26963. U. S. NATIONAL RESOURCES PLANNING BOARD. REGION 10.** External trade of Alaska 1931-1940, by

Joseph L. Fisher. Portland, Ore., 1943. 2 p. l, 25, xv p. incl. tables. 11 plates (diags.)

"An analysis of the in-bound and out-bound shipments of a frontier region with emphasis on the possibilities for expanding its trade and strengthening its internal economy."—Subtitle. Commodity groups are (1) animals, fish, and products, (2) products of agriculture, (3) forest products, (4) mine products, and (5) manufactures and miscellaneous, treated under U. S.-Alaska, and foreign-Alaska trade. Tables show values and quantities.

*Copy seen:* DLC.

**26964. U. S. NATIONAL RESOURCES PLANNING BOARD. REGION 10.** Post war economic development of Alaska. [Washington, D. C.] 1942. iv, 24 p., 2 maps, diagr.

Reprinted from U. S. National Resources Planning Board's *Regional resources development, report for 1942*; prepared by the Alaska Regional Office staff, including J. C. Rettie, G. Sundborg, and others.

Brief presentation of the "basic needs and types of development contemplated before" World War II began, including transportation, agriculture, forest utilization, fisheries, mineral industries, tourist travel, native living standards and health, municipal improvements, education, governmental reorganization and finance.

*Copy seen:* DLC.

**U. S. NAVAL MEDICAL RESEARCH INSTITUTE**, see Knight, K. L. Taxonomic treatment mosquitoes Umiat. 1948. No. 23312.

**26965. U. S. NAVAL OBSERVATORY.** Reports of foreign societies on awarding medals to the American arctic explorers, Kane, Hayes, Hall. [Washington] U. S. Naval Observatory, 1876. 70 p. front. (phot.)

Contains the presentation addresses and replies given on the occasion of two awards being presented to Dr. E. K. Kane; two awards to Dr. I. I. Hayes and one to Captain C. F. Hall. Addenda contain resolutions of the House of Representatives and the Legislatures of Pennsylvania and New Jersey honoring Dr. Kane and his officers.

*Copy seen:* DLC.

**U. S. NAVAL PHOTOGRAPHIC INTERPRETATION CENTER**, see Roscoe, J. H. Antarctic bibliography. 1951. No. 25654.

**26966. U. S. NAVY. BUREAU OF SUPPLIES AND ACCOUNTS.** Footwear for frigid feet. (Research reviews, Mar. 1951. p. 7-8, illus.)

Results of two years of research by the Naval Clothing Depot, Brooklyn; a new boot, "rubber inside and out, with wool sandwiched and sealed in as an interlining in the sole, around the foot and ankles, and in the expanding-gusset type tongue."

*Copy seen:* DSI-M.

**U. S. NAVY. BUREAU OF YARDS AND DOCKS**, see *Military engineer*. Improved ice harvesting. 1949. No. 24346.

**U. S. NAVY. BUREAU OF YARDS AND DOCKS**, see also *Military Engineer*. Navy Arctic talkie film. 1950. No. 24348.

**U. S. NAVY. BUREAU OF YARDS AND DOCKS**, see also Roberts, P. W., & F. A. Cooke. Arctic tower foundations frozen permafrost. 1950. No. 25593.

**26967. U. S. NAVY. CIVIL ENGINEER CORPS BULLETIN.** Arctic fire fighting. (U. S. Navy. Civil Engineer Corps bulletin, June 1951. v. 5, p. 170-72, incl. illus.)

"A two-piece engine company, used for firefighting at Adak (Alaska), consists of a pumping unit and hose truck, both devised from weapons carriers. An LVT with no modification to the basic vehicle is used at Point Barrow. The vehicle carries fire-fighting equipment including CO<sub>2</sub> cylinders, personnel and its own water supply."—SIPRE. *Copy seen:* DLC.

**26968. U. S. OFFICE OF NAVAL RESEARCH.** Operation Skijump—flying research in the Arctic. (Research reviews, July 1951. p. 1-3, illus., 2 plates) Some general information on a mission using a Navy R4D (2-engined Douglas plane) equipped with skis, which carried two oceanographers and landed on the pack ice of the arctic sea, Mar.-Apr. 1951; with notes on the landing and takeoff.

*Copy seen:* DSI-M.

**26969. U. S. PUBLIC HEALTH SERVICE.** Public health problems in Alaska. (U. S. Public Health Service. Public health reports, July 20, 1951. v. 66, no. 29, p. 911-44; also issued as reprint no. 3100 (34 p.)

Contents: HALDEMAN, J. C. Problems of Alaskan Eskimos, Indians, Aleuts.

WILSON, C. S. Control of Alaskan biting insects.

DAY, E. K. Sewage and waste disposal problems.

RAUSCH, R. Biotic interrelationships of helminth parasitism.

FRITZ, M. H., and P. THYGESON. Phlyctenular keratoconjunctivitis among Alaskan Indians and Eskimos.

IRVING, L. Climatic adaptation in arctic and tropic animals.

HALDEMAN, J. C. Facilities and opportunities for research at the Arctic Health Research Center.

Each paper appears in this Bibliography under its author's name.

**Copy seen:** CaMAI; DLC.

**U. S. PUBLIC HEALTH SERVICE,** see also Brandly, P. J., & R. L. Rausch. Prelim. note trichinosis Alaska. 1950. No. 20865.

**26970. U. S. PUBLIC HEALTH SERVICE. ARCTIC HEALTH RESEARCH CENTER,** Anchorage. Activities report, June 30, 1951. Washington, D. C., U. S. Public Health Service, [1951?] iii, 87 p., illus., tables. Mimeographed.

Contains a concise report on research projects planned or under way in applied and basic sciences. These were initiated in 1948 with the establishment of a field research station, which in 1950 was designated as the Arctic Health Research Center. The report covers the branches of: animal-borne diseases; entomology and insect control; environmental sanitation; biochemistry and nutrition; physiology, bacteriology and parasitology; biometrics; library and administration. For each branch, the personnel is listed, program and projects under way are summarized; for the library and administrative branch, organization and activities are outlined. Some general information on Alaska's health problems, mortality data, housing, incidence of illness, etc., is presented in the introductory chapter. An appendix contains a list of publications of the staff (about 60 items).

See also *Arctic Bibliography*, No. 154 and No. 18398 for previous reports in this field.

**Copy seen:** CaMAI.

**26971. U. S. PUBLIC HEALTH SERVICE. ARCTIC HEALTH RESEARCH CENTER,** Anchorage. Weekly accessions list . . . Library. Anchorage, 1950-in progress.

Weekly mimeographed list of books, papers (mainly), government reports, etc., received in the library at Arctic

Health Research Center. The library, initiated in 1949 is being developed extensively in the fields of biology, medicine, and in Alaskan and arctic literature generally as it has bearing on research on health and environmental adaptation in the North.

**File seen:** DSG.

**U. S. PUBLIC HEALTH SERVICE. ARCTIC HEALTH RESEARCH CENTER,** Anchorage, see also Alaska. Dept. of Health. Arctic health institute. 1949. No. 20111.

**26972. U. S. QUARTERMASTER CORPS. CLIMATIC RESEARCH LABORATORY,** Lawrence, Mass. Inhibition of frostbite wheals by the iontophoresis of antihistaminic agents. Lawrence, Mass., 1948. 9 p., illus., tables. (Environmental protection series. Report no. 135)

The study was undertaken to obtain information on the responses to localized frostbite and the role of histamine in its pathogenesis. Experimentally produced frostbite lesions were studied before and after histamine-antagonists were introduced locally by an electric current. The iontophoretic introduction of these substances (Pyribenzamine hydrochloride and Benadryl hydrochloride) inhibited the formation of wheals in human skin. No other effects on the type of progress of localized frostbite lesions were observed. It is concluded that histamine or a histamine-like substance is liberated in the human skin in the early stages of frostbite. Bibliography (7 items).

**Copy seen:** DSG.

**U. S. RURAL ELECTRIFICATION ADMINISTRATION,** see U. S. Bureau of Reclamation. Alaska . . . water resources. 1949, 1952. No. 26896.

**26973. U. S. TREATIES.** The defence of Greenland. (Polar record, Jan. 1952. v. 6, no. 43, p. 408-412)

Contains editor's statement on agreement of Apr. 9, 1941 (see *Arctic Bibliography*, No. 18407), and, following formation of North Atlantic Treaty Organization (NATO), the new agreement between Denmark and the U. S. signed Copenhagen, Apr. 27, 1951. Then follows:

Agreement between the Government of the United States of America and the Government of the Kingdom of Denmark pursuant to the North Atlantic Treaty, concerning the defence of Greenland.

Taken from: Forslag til rigsdagsbeslutning i anledning af den i København den 27. april 1951 undertegnede overenskomst i henhold til Den nordatlantiske Traktat mellem Regeringerne i Danmark og Amerikas Forende Stater om forsvaret af Grønland, [pub.] J. H. Schultz A/S København, 1951. Text in 14 articles gives U. S. Armed Forces right of access to Greenland and specifies activities, services, etc., mutually to be undertaken there by the two countries. Includes articles on status of Grønland, on NATO.

**Copy seen:** DLC.

**26974. U. S. WEATHER BUREAU.** Climate of Siberia; selected list of references. [Washington, n. d.] 3 p.

"A list of 17 references to material contained in the U. S. Weather Bureau Library. The earliest reference is to a work by Middendorff (1861) and the latest to an item printed in 1932."—*Meteorological abstracts and bibliography*, Aug. 1952. v. 3, no. 8, p. 825.

**Copy seen:** DWB.

**26975. U. S. WEATHER BUREAU.** Climatological data, Alaska. San Francisco, 1915-current. 13 nos. a year (monthly annual summary)

Weather summary for the month, followed by tables of comparative data (from 1907), temperature averages, highest, lowest, etc., and precipitation (including snow, sleet, hail); daily temperature and precipitation, snowfall and snow on ground and station index (135 stations, 1952).

**File seen:** CaMAI (1950 to date).

**26976. U. S. WEATHER BUREAU.** Mean monthly and annual evaporation from free water surfaces for the United States, Alaska, Hawaii and the West Indies. Washington, D. C., 1950. 10 p. tables. (*Its*: Technical report, no. 13)

"A compilation of data on evaporation averages based on Weather Bureau records from 300 evaporation stations: daily evaporation amounts, wind movement, air temperature, precipitation and some pan water records, for a period of five years or more prior to 1949."—*Meteorological abstracts and bibliography*, Nov. 1950. v. 1, no. 11, p. 761. **Copy seen:** DWB.

**26977. U. S. WEATHER BUREAU.** Sunshine and cloudiness at selected stations in the United States, Alaska, Hawaii, and Puerto Rico. [Washington], 1951. 16 p. tables. (U. S. Weather Bureau. Technical paper, no. 12)

"Data on average number of hours of sunshine and percent of possible, as well as percentage of cloudiness and number of clear, partly cloudy and cloudy days for entire period of record available for several hundred stations in each of the states of the U. S., Alaska, Hawaii and Puerto Rico are given in tables, with no explanation or interpretation."—*Meteorological abstracts and bibliography*, Nov. 1952. v. 3, no. 11, p. 1151.

**Copy seen:** DWB.

**U. S. WEATHER BUREAU**, see also Bremner, P. C. Permafrost drilling at Resolute B. 1952. No. 20885.

**U. S. WEATHER BUREAU**, see also Rae, R. W. Joint arctic weather project. 1951. No. 25334.

**U. S. WEATHER BUREAU**, see also U. S. Bureau of Reclamation. Alaska . . . water resources. 1949, 1952. No. 26896.

**26978. U. S. WEATHER BUREAU. COOPERATIVE STUDIES SECTION.** Maximum possible rainstorm, Swan Lake Basin, Revillagigedo Island, Alaska. [Washington] 1949. 10 p. 6 fig., 2 tables. (U. S. Weather Bureau. Cooperative Studies Section, Report no. 10)

"As very little actual data exists for calculating depth-duration or possible maximum rainfall intensities in this remote region, maximum rainfall data for stations in similar topographic and meteorological location on the coasts of Washington, British Columbia and Alaska (stations having >50 inches precipitation per year) were used to calculate the maximum 10 year storm, maximum possible 24-hour precipitation and the seasonal variations in these parameters. Then by using a "slope index," the above data were applied to the actual basin and charts drawn of the parameters which, when integrated for the area, yielded the orthodox curves used by engineers in other areas."—*Meteorological abstracts and bibliography*, Apr. 1952. v. 3, p. 318.

**Copy seen:** DWB.

**26979. UNITED STATES AIR SERVICES.** 500th flight over North Pole. (United States air services, Oct. 1951. v. 36, no. 10, p. 16)

"Brief account of the 58th Strategic Weather Reconnaissance Squadron's activity and its 500th flight over the North Pole [Ptarmigan flights from Eielson Field, Alaska, initiated in 1946]. The squadron's commander [J. T. Fletcher] is

quoted as declaring that the flights, so far covered 'the indoctrination phase' of the project and that the squadron is 'now ready to embark on the routine phase.'—*Meteorological abstracts and bibliography*, June, 1952. v. 3, p. 541.

**Copy seen:** DLC.

**26980. UNITED STATES NAVAL MEDICAL BULLETIN.** The treatment of frostbite. [Editorial] (United States naval medical bulletin, Jan.-Feb. 1948. v. 48, p. 99-100)

*Contains a note on the inadvisability of using snow and rubbing, or heat greater than body temperature, in cases of frostbite. Gradual thawing by cold water slowly warmed to body temperature, or gentle friction followed by treatment similar to that used in burns, is recommended.*

**Copy seen:** DLC.

**UNKSOV, V. A.,** *see* Eliseev, N. A., & others. Geol. stroenie Lovozerskikh tundr. 1938. No. 21643.

**26981. UOTILA, TOIVO EMIL, 1897-1947.** Etymologische Beiträge. (Finnisch-ugrische Forschungen, 1939-40. Bd. 26, p. 144-91) **Title tr.:** Etymological essays.

*Contains notes on Zyryan words for: "to look," "back part of a net," "a female," "sulphur," "message," "press," "possible," "to stamp," "upper part," "to feed," "to conquer," "holy," "to drive away"; Samoyed "bending"; Lapp "round-shaped insects".*

**Copy seen:** DLC; InU.

**26982. UOTILA, TOIVO EMIL, 1897-1947.** Lehnwörter des Permischen. (Suomalais-ugrilainen seura. Aikakauskirja, 1943-44. v. 52, no. 5, p. 1-10) **Title tr.:** Loanwords of the Permian language.

*Contains linguistic investigation of the Zyryan words borrowed from the Chuvash, Baltic Finnish and Russian languages.*

**Copy seen:** DLC; InU.

**26983. UOTILA, TOIVO EMIL, 1897-1947.** Syrjänische Chrestomathie mit grammatikalischem Abriss und etymologischem Wörterverzeichnis. Helsinki, Suomalais-Ugrilainen Seura, 1938. 191 p. (*Its: Hilfsmittel für das Studium der finnisch-ugrischen Sprachen*, VI) **Title tr.:** Zyryan language reader with a grammatical sketch and an etymological word list.

*Contains texts of northern and southern (or Permian) dialects, including some specimens of the standard or literary*

language. All texts in dialect are folklore, taken from the printed works of Y. Wichmann, D. R. Fokos, A. Genetz, and V. I. Lytkin. No translation of texts is offered. The grammatical sketch is in German, the vocabulary gives translations and explanations in German.

**Copy seen:** InU.

**26984. UOTILA, TOIVO EMIL, 1897-1947.** Wortgeschichtliches. (Suomalais-ugrilainen seura. Toimituksia, 1933. no. 67, p. 398-401) **Title tr.:** On the history of some words.

*Contains an investigation of four Zyryan words.*

**Copy seen:** InU.

**26985. UOTILA, TOIVO EMIL, 1897-1947.** Wortgeschichtliches. (Finnisch-ugrische Forschungen, 1935. Bd. 23, p. 97-102) **Title tr.:** Contribution to the history of words.

*Contains etymological notes on Zyryan and Votyak kenak (brother's wife), Östyak and Vogul laki (ball).*

**Copy seen:** DLC; InU.

**26986. UOTILA, TOIVO EMIL, 1897-1947.** Zur Geschichte des Konsonantismus in den permischen Sprachen. Helsinki, 1933. vi, 446 p. (Suomalais-ugrilainen seura. Toimituksia, no. 65) **Title tr.:** On the history of consonantism in the Permian languages.

*The author worked over not only the printed sources (publications of Mun-kási and Genetz), but also the Ms. collection of Zyryan and Votyak words made by Wichmann, and the material collected by himself among the Zyryans.*

**Copy seen:** DLC; InU.

**26987. UOTILA, TOIVO EMIL, 1897-1947.** Zwei Pluralcharaktere. (Finnisch-ugrische Forschungen, 1946. Bd. 29, p. 23-31) **Title tr.:** Two kinds of plural.

*Contains note on the use of possessive suffix *n* (*ni*) in the old Zyryan language.*

**Copy seen:** DLC; InU.

**UOTILA, TOIVO EMIL, 1897-1947,** *see* also Wichmann, Y. Syrjänische Wortschatz. 1942. No. 27368.

**26988. URAL. OBLASTNAĬA PLANOVAĬA KOMISSIĬA.** Mineral'nye resursy Urala. Sverdlovsk, Ural'skoe izd-vo, 1934. 636 p., maps (part. fold.) **Title tr.:** Mineral resources of the Ural.

*An extensive, informative work, each mineral, and in the case of iron and coal each mining district being dealt with by*

an expert. Includes some scattered data on the northern region.

**Copy seen:** DLC.

**URALOV, N. S.**, see Voronkov, P. P., & others. Osnovnye cherty gidrokhim. rezhima Barentsova moria. 1948. No. 27182.

**26989. URQUHART, JAMES A.** The most northerly practice in Canada. (Canadian Medical Association. Journal, 1935. v. 33, p. 193-96)

*Contains* report based on seven years' experience of a doctor practicing in the far Northwest of Canada (headquarters at Aklavik) on the health condition of Eskimos and Indians. No case of cancer was observed which some attribute to the peculiar diet (described here in detail); ulcers and nephritis are rare; fish round- and tape-worms are very common or universal since fish are eaten raw and whole; teeth are excellent, tuberculosis is low among Eskimos, high among Indians; infant mortality fairly high, due to the custom of feeding young children with putrid ("high") meat; venereal diseases are rare except when brought from the outside; typhoid is moderately frequent; rheumatic fever and asthma are rare; common cold is very rare normally, and except when introduced from the outside; acute infective diseases occur from time to time; appendicitis is quite common.

**Copy seen:** DSG.

**26990. URSINOVICH, S. L.** Koekchuchy. (Sovetskaya Aziya, 1928. god 4, no. 3, p. 114)

*Contains* notes on persons called by this name among the Kamehadals: they are men wearing women's clothing and doing women's work; this class of people probably originated under the influence of shamanesses.

**Copy seen:** DLC.

**URVANTSEV, NIKOLAI NIKOLAEVICH**, see Samoilovich, R. L., & others. Geologiya Arktiki. 1937. No. 25812.

**26991. USACHEV, P. I.** Biological analysis of ice-floes. (Akademiya nauk SSSR. Comptes rendus (Doklady), 1938. nouv. ser., v. 19, no. 8, p. 645-48, map)

Remarks on the Nordenskiöld (1875-76) and Nansen (*Fram*) expeditions' observations of diatomaceous algae on ice floes and (in more detail) the author's analysis of organic matter in ice samples taken in Kara and Laptev Seas during expeditions of the *Lomonosov*,

*Sedov* and *Sadko* 1931-37; contribution to study of origin and drift of ice floes.

**Copy seen:** DLC.

**26992. USACHEV, P. I.** Boris Lavrent'evich Isachenko, 1871-1948. (Akademiya nauk SSSR. Vsesoyuznoe gidrobiologicheskoe obshchestvo, Trudy, 1949. t. 1, p. 11-26, port.)

*Contains* an obituary note on B. L. Isachenko, with data on his explorations in the Soviet Arctic, p. 13-14, and a bibliography (about 225 items) of his papers, including some dealing with microbiology of northern regions and seas of U.S.S.R. (mostly Barents and Kara Seas).

**Copy seen:** MH-Z.

**26993. USACHEV, P. I.** Materialy k flore vodorosel r. Eniseya. Krasnoyarsk, 1928. 86 p. incl. map, tables, plate. (Krasnoyarsk, U.S.S.R. Vostochno-Sibirskaya nauchnaya rybokhozyaystvennaya stantsiya. Trudy, t. 3, vyp. 2) **Title tr.:** Materials on the algal flora of the Yenisey River.

*Contains* material and hydrobiological observations from 15 stations on the middle and lower Yenisey (including its delta) and the Nizhnyaya Tunguska. Each station, its geography and hydrology, are described, and an account given of the algae found. A general review of the material is presented. The last chapter (p. 44-78) deals with the taxonomic aspects of the algae. Summary in German.

**Copy seen:** DLC.

**26994. USACHEV, P. I.** Mikroflora polarnykh l'dov. (Akademiya nauk SSSR. Institut okeanologii. Trudy 1949. t. 3, p. 216-59, diagrs., tables) **Title tr.:** The microflora of polar ice.

*Contains* summary of earlier work from that of Nansen and other late 19th century scientists to that of Russian ice-breakers in the 1930's. Then follows (1) a general, ecologic-biological part (p. 217-38) dealing with the stratification of the microflora on, in and beneath the ice; biological analysis of these strata; origin of forms in the ice; biocoenoses, etc.; and (2) a taxonomic part (p. 238-59) giving a systematically arranged account of 89 forms, their location, distribution, frequency, size, etc. Bibliography (about 80 items).

**Copy seen:** DLC.

**26995. USHAKOV, G. A.** Po nekhozhenoi zemle. Predislovie V. A. Obrucheva. Moskva, Izd-vo Glavsevmorputi, 1951.

400 p. illus., sketch map **Title tr.:** On untrodden land. Introduction by V. A. Obruchev.

Contains a detailed (though somewhat popularized and anecdotal) narrative, with some diary entries, of the exploratory expedition to Severnaya Zemlya in 1930-32, headed by the author. Following a sketch of the discovery of these islands (in 1913, by the ice-breakers *Taimyr* and *Vaigach*) and of explorations preceding the present one, the author outlines the plan and preparations for his expedition, a four-man survey party transported on the ice-breaker *Sedov's* 1930 trip, to winter there, explore and do mapping. He describes various physical features of the islands and coasts; climate in general and during summer and winter; animal life (and hunting) especially during summer: birds, polar bears; the party's dogs; wintering in the area; auroras; exploration trips into the interior, and around the islands (Bol'shevik, Oktâbr'skoï Revoliûtsii, Pioneer, Komsomolets and smaller islands); first traverse of Oktâbr'skoï Revoliûtsii Island. Exploration during spring and summer; mapping; discovery of the Shokal'skiy Sound; belugas and their hunting; exploration of Bol'shevik Island; etc. The narrative is extensively illustrated with drawings and photographs; a small sketch map (p. 392) shows roughly the party's track. For other papers from this expedition see *Arctic Bibliography*, No. 18427, 18433, 18443.

**Copy seen:** DLC.

**USHAKOV, G. A.,** see also No. 27129.

**26996. USHAKOV, PAVEL VLADIMIROVICH.** K nakhozhdeniû *Cladocarpus formosus* Allm. (Aglaopheniidae, Hydroida) v Kol'skom zalive. (Akademiiâ nauk SSSR. Murmanskââ biologicheskââ stantsiâ. Dal'niye Zelenetsy. Trudy, 1948. t. 1, p. 286-87, illus.) **Title tr.:** On the occurrence of *Cladocarpus formosus* Allm. (Aglaopheniidae, Hydroida) in Kola Bay.

A find of this hydroid from the Kola Bay is reported. **Copy seen:** DLC.

**26997. USHAKOV, PAVEL VLADIMIROVICH.** K nakhozhdeniû *Malacobdella grossa* (Müll.) v nashikh severnykh morâkh. (Gidrobiologicheskii zhurnal SSSR, 1927. t. 6, no. 6-7, p. 154-55) **Title tr.:** On occurrence of *Malacobdella grossa* (Müll.) in our northern seas.

Contains a record of the finding of this parasitic nemertinean in a maritime mollusc, *Mya truncata*, in Kola Bay on the Murman coast; it is known also from some other localities in Kola Peninsula and from the White Sea (in *Cyprina islandica*). Summary in German.

**Copy seen:** MH-F.

**26998. USHAKOV, PAVEL VLADIMIROVICH.** Mnogoshchetinkovye chervi (Polychaeta) Okhotskogo morâ. (In: Akademiiâ nauk SSSR. Zoologicheskii institut. Issledovaniâ dal'nevostochnykh morei SSSR, vyp. 2, 1950. p. 141-237, illus.) **Title tr.:** Polychaete worms (Polychaeta) of the Sea of Okhotsk.

Contains a report on worms collected during 1930-32: 240 species and lesser taxonomic groups as against 45 hitherto known. Following a general and zoogeographic description of the fauna, distribution of species according to depth is given and arranged in taxonomic order. The species description covers size, morphology, habitat, distribution, etc. Bibliography (about 70 items).

**Copy seen:** DLC.

**26999. USHAKOV, PAVEL VLADIMIROVICH.** Murmanskââ biologicheskââ stantsiâ Akademii nauk SSSR v gube Dal'ne-Zelenetskoï i eë pervye nauchnye raboty. (Akademiiâ nauk SSSR. Murmanskââ biologicheskââ stantsiâ, Dal'niye Zelenetsy. Trudy, 1948. t. 1, p. 10-32, illus., maps (1 fold.) **Title tr.:** The Murman Biological Station of the Academy of Sciences U.S.S.R. in Dal'ne-Zelenetsy Bay and its first scientific work.

Contains account of the location of the station (69°07' N. 36°05' E.) and description of its surroundings; its main purposes; principal buildings, research vessels, museum and library; account of its research activities during 1936-38; short notes on the deep-water fauna in the vicinity of the new station followed by a list of over 600 species of animals found in this area. **Copy seen:** DLC.

**27000. USHAKOV, PAVEL VLADIMIROVICH.** Eine neue Form aus der Familie Sabellidae (Polychaeta). (Zoologischer Anzeiger, Leipzig, 1933. Bd. 104, nr. 7-8, p. 205-208, illus.) **Title tr.:** A new form the family Sabellidae (Polychaeta).

Contains a description and anatomical study of a marine worm, *Lamellisabella zachsi* n. g. et. sp., collected in the southern part of the Sea of Okhotsk; for criti-

cism see K. E. Johansson *Über Lamellisabella zachsi*, 1937. **Copy seen:** MH-Z.

**27001. USHAKOV, PAVEL VLADIMIROVICH.** O dvukh novykh vidakh *Scolecipis* (Spionidae, Polychaeta) s poberezh'ia Murmana. (Akademiia nauk SSSR. Murmanskaiia gidrobiologicheskaiia stantsiia, Dal'niye Zelenyysy. Trudy, 1948, t. 1, p. 284-85, illus.) **Title tr.:** On two new species of *Scolecipis* (Spionidae, Polychaeta) on the shores of Murman.

Two new species of bristle-worms, *Scolecipis derugini* n. sp. and *Scolecipis murmanica* Zachs, n. sp. are described.

**Copy seen:** DLC.

**USHAKOV, PAVEL VLADIMIROVICH,** see also Broch, H. Untersuchung an Stylasteriden I. 1936. No. 20919.

**USHAKOV, PAVEL VLADIMIROVICH,** see also Gur'ianova, E. F., & P. V. Ushakov. K ékologii *Balanoglossus*. 1926. No. 22281.

**27002. USTIEV, E. K.** Faflit nekotorykh mestorozhdenii Kolymy. (Vserossiiskoe mineralogicheskoe obshchestvo. Zapiski, 1946. ser. 2, chast' 75, p. 96-104, illus.) **Title tr.:** Fayalite in some deposits on the Kolyma River.

Fayalite from albite granites and in placer deposits of Bolonogo, Kinzhalsk, Suksukana River basin and Nerega River regions is genetically related to pegmatites traversing the granite. Grunerite accompanies the fayalite found in the pegmatites and in cavities in the granite, and the relationship indicates a reaction which resulted in the formation of the accessory magnetite. Includes chemical analyses.—Geological Society of America. *Bibliography and index of geology.* Summary in English.

**Copy seen:** DLC.

**27003. USTINOVA, T. I.** Kamchatskie gelzery. (Akademiia nauk SSSR, Laboratoriia gidrobiologicheskikh problem. Trudy, 1949. t. 2, p. 144-57, illus., maps, tables) **Title tr.:** Kamchatka geysers.

Contains an account of the discovery of the first geyser in Kamchatka in 1941, and description of Geyser Valley (54° N. 160° E.); classification of the thermal-mineral springs of Kamchatka; physical geography of the Geyser Valley; location and distribution of its geysers and hot springs; their characteristics and classification; size and number (five large ones, 17 smaller); the geyserite deposits around them and their chemical

composition; temperatures; altitude; comparisons with Yellowstone and Iceland geysers. *Bibliography* (5 items).

**Copy seen:** DLC.

**27004. USTINOVA, T. I., and S. S. KRAPIVINA.** Uslovia vykhoda i khimizm Zapovednykh klüufel na Kamchatke. (Akademiia nauk SSSR. Laboratoriia gidrobiologicheskikh problem. Trudy, 1951. t. 10, p. 87-91, illus. map) **Title tr.:** Conditions of issue and chemism of the Zapovednyye springs in Kamchatka.

Contains an account of a group of hot springs, discovered and named by the authors in 1946. It is one of seven groups located 300 km. north of Petropavlovsk. The neighboring volcanoes and fumaroles are described; the springs discussed with data given on their temperature, physical characteristics, chemical composition, etc. *Bibliography* (3 items).

**Copy seen:** DLC.

**27005. UTSI, MIKEL.** The reindeer-breeding methods of the northern Lapps. (Man, 1948. v. 48, p. 97-101, 2 text illus., 3 illus. on a plate, map)

Reindeer-breeding is still the center of the northern Lapp mode of life. Its chief factors are the type of area, particularly as to the pasture it offers, and the weather, especially its effect on ice-snow. The third factor is the prevailing price for meat and hides. The author, a native of Karesuando (Sweden), describes a Lapp reindeer-herder's life and work throughout the year, and the so-called "method of extensive summer herding." Since 1890 the Kautokeino and Karasjok Lapps have been teaching Eskimos and Americans how to breed and herd reindeer in Alaska. During 1929-34 five northern Lapps drove successfully a nucleus herd from the Kotzebue Sound region of Alaska to the Mackenzie delta in northern Canada, to develop reindeer husbandry among Canadian Eskimos.

**Copy seen:** DLC; InU.

**UTTERBACK, CLINTON LOUIS, 1885-**, see Sanderman, L. A., & C. L. Utterback. Radium content ocean bottom sediments. 1941. No. 25823.

**27006. UTTING, Mrs. MATTIE JOHNS.** Arctic fringe; a day by day cruise by Mattie Johns Utting . . . Boston, Christopher Publishing House, [1939] 2 p. l., vii-xiv, 15-161 p., plates.

Popular account of a trip from New York to Iceland, Norway (including the

voyage to Hammerfest and Trondhjem), Denmark, Polish Corridor, Sweden and Russia, each chapter preceded by a brief historical-geographical sketch.

**Copy seen:** DLC.

**27007. VADILO, P. S.** Methods for the investigation of the structure of ice. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1939. nouv. ser., v. 23, no. 4, p. 343-44)

"The structure of ice may be studied by means of X-rays, a polarization microscope, or through carbon paper tracings of ice patterns. A method is devised which eliminates the disadvantages of the 3 existing techniques. River ice is exposed to damp air at a temperature slightly above 0° C. The temperature is then lowered to a few degrees above 0° C. Ice crystals, orientated to the crystal axes of the river ice sample, were formed by sublimation. The boundaries between the crystals of river ice and the crystals formed by sublimation could be identified because of the orientation. Another method of analysis consists of placing paper or a thin textile over ice, and making rubbings with a soft lead pencil. The boundaries between separate crystals become apparent."—SIPRE.

**Copy seen:** DLC.

**27008. VÄISÄLÄ, VILHO.** Die aerologische Untersuchung in Finnland während des internationalen Polarjahres, I.VIII 1932-31.VIII 1933. (Suomalainen tiedeakatemia, Helsingfors. Sitzungsberichte, 1933. v. 14, no. 10, p. 115-22, tables) **Title tr.:** The aerological investigations in Finland during the International Polar Year, Aug. 1, 1932-Aug. 31, 1933.

An account of the beginnings of aerology, the study of the constitution of the air at various altitudes, is given and a report on the greatly increased activity in this field during this Second International Polar Year, with brief tabular data from stations in Fennoscandia.

**Copy seen:** DLC.

**27009. VÄISÄNEN, A. O.** Die Leier der Ob-Ugrischen Völker; ihr Bau, Gebrauch und Ursprung. (Eurasia Septentrionalis antiqua, 1931. v. 6, p. 15-29, 12 illus.) **Title tr.:** The lyre of the Ob-Ugrian peoples; its construction, use and origin.

Contains description of an Ob-Ugrian five-stringed instrument (Ostyak: *nares-juz* "musical wood"), how it is made

and played, on what occasions (as an accompaniment for the dance and epic songs, at dramatic performances during bear festivals, at burials and shamanistic performances). It is not Finno-Ugrie in origin; it probably has some relationship to the Hittite cultural cycle of Asia Minor and came to the North via the Caucasus. This paper is based on museum material of the National Museum in Helsinki (which has six lyres, several others are found elsewhere). The author makes frequent and controversial reference to other writers on this subject, Seraphim Atkanov, Tobias Norlind, and Otto Anderson.

**Copy seen:** DLC.

**27010. VÄISÄNEN, A. O.** Die obugrische Harfe. (Finnisch-ugrische Forschungen, 1937. Bd. 24, p. 127-52, 26 illus.) **Title tr.:** The Ob-Ugrian harp.

Among the Ostyaks and Voguls, two kinds of musical stringed instruments are very popular: a lyre which is older (investigated in the author's *Die Leier der Ob-Ugrischen Völker*, 1931, q. v.) and a harp. The Samoyeds adopted both instruments (excepting the name) from the Ostyaks, other Ob-Ugrian neighbours lacking such instruments. The Ob-Ugrian names for harp are indigenous and mean a "crane," or "swan," or "piece of wood with a crane's head (neck)." The Samoyeds call both the lyre and the harp by the name for "drum." Detailed description and measurements are given of harps preserved in the Finnish National Museum. The harp was used for accompaniment of heroic and sacrificial songs, and more frequently played for dances. The origin of this kind of harp probably was in the eastern Turkestan.

**Copy seen:** DLC; InU.

**VÄISÄNEN, A. O.,** see also Kannisto, A. & others. Wogulische u. ostjakische Melodien. 1937. No. 23124.

**27011. VÄLIKANGAS, ILMARI.** Einiges über die Meeresfauna im Gebiet von Petsamo an der finnischen Eismeerküste. (Suomalainen tiedeakatemia, Helsingfors. Sitzungsberichte, 1934. 10:11, p. 146-56) **Title tr.:** Notes on the marine fauna in the region of Petsamo, on the arctic seacoast of Finland.

Account of previous work in the area, and of a collecting trip made for the University of Helsinki Zoological Museum in the summer of 1933. Field notes are given on the common animals found along the shores of different types and

at various depths; also common free-floating (planktonic) animals of the open sea. **Copy seen:** DLC.

**27012. VÄLIKANGAS, ILMARI. J. A.** Palmén's theories on migratory routes of birds in the light of later, especially Finnish, observations and results of ring-marking. Helsingfors, 1946. 34 p., 15 sketch maps. (Finska vetenskaps-societeten. Årsbok-Vuosikirja, 24:2)

**Contains** a centenary tribute to Johan Axel Palmén, 1845-1919, particularly to his fundamental work on bird migration *Über die Zugstrassen der Vögel* (Leipzig, 1876, 292 p., copy at MH). Author discusses "results of the ringmarkings in Finland started by Palmén himself," presenting further data on Palmén's "19 arctic species," waterfowl and shore birds which were found to breed in the archipelago north of the Eurasia or no further south than the northernmost parts of the continent. Author remarks on Palmén's theories developed from his researches on these "extreme-arctic" migratory birds and traces the controversial (and other) literature which followed the 1876 publication; also notes on which of these arctic species later experience has corroborated Palmén's theories. He discusses also (on the basis of observational data of recent decades), palaearctic water- and shore-bird fauna which Palmén treated mainly on a theoretical basis. Migration routes and recoveries are figured on the sketch maps. Bibliography (24 items). **Copy seen:** DLC.

**27013. VÄYRYNEN, HEIKKI ALLAN, 1888- .** Über die geologische Struktur des Erzfeldes Kammikivittunturi in Petsamo. (Finland. Geologiska kommission. Bulletin, 1930. no. 92, p. 19-32, fold. map, diagrs.) **Title tr.:** On the geological structure of the ore field Kammikivittunturi in Petsamo.

**Report** on a detailed examination of the field: the stratigraphy of the various formations; outline of the tectonics, and account on the occurrence and genesis of the sulphide ores of the area.

**Copy seen:** DLC.

**27014. VAINIO, ILMARI.** Zur Verbreitung und Biologie der Kreuzotter, *Vipera berus* (L.) in Finnland. (Suomalainen eläin- ja kasvieteellisen seuran Vanamo. Julkaisuja, 12:1, p. 1-19, map) **Title tr.:** The occurrence and

biology of the adder *Vipera berus* (L.) in Finland.

**Author** deals with this common adder's distribution (throughout Finland, its northern limit above the Arctic Circle in Finnish Lapland), color and size, habitats, food and reproduction.

**Copy seen:** DLC.

**27015. VÄINSHTEIN, S. I.** K voprosu ob étnogeneze ketov. (Akademiia nauk SSSR. Institut étnografii. Kratkie soobshcheniia, 1951. v. 13, p. 3-7, illus.)

**Title tr.:** On the problem of the ethnogenesis of the Kets.

**Contains** notes on a study made in a group of Kets (Yeniseians) on the Middle or Stony (Podkamennaya) Tunguska. On the basis of their folklore, some articles of dress, language and archeological evidence, the author postulates a southern origin of the Kets, possibly in the area now Tibet. **Copy seen:** DLC.

**27016. VÄINSHTEIN, S. I.** Kul'tura i byt ketskogo kolkhoza imeni Stalina. (Akademiia nauk SSSR. Institut étnografii. Kratkie soobshcheniia, 1950. t. 11, p. 60-69, 7 illus., map) **Title tr.:** Culture and life of a Ket kolkhoz named Stalin.

**Contains** description of a kolkhoz organized in 1934 and centered on Chernyi Ostrov in the Podkamennaya Tunguska River in Krasnoyarskiy Krai. Most of the Yeniseians, living in the Yenisey basin (see map) belong to the kolkhoz (which is 82 percent Yeniseian, 9 per cent Russian and 9 per cent Zyryan). The chief occupation is hunting and fishing, done in brigades of three to five persons and individually; attempts are made to plant vegetables (potatoes, cabbage and carrots), and to keep cows; small cabins are erected in the woods as shelter for hunters and equipped with supplies. The way of life has changed: the Russian clothes have been adopted, stable log cabins have replaced tents; there is a school, hospital, and a club with radio set, movies and newspapers (all young people can read and write); the shamans and diviners have become extinct, etc. Numbers of persons or families belonging to the kolkhoz, or earnings of a hunter or fisher are not indicated. The hunting animals are reindeer, elk, bear, and sable, also birds. The cultural institutions are accessible to only a few of the people because of the great distances.

**Copy seen:** DSI-M.

**27017. VAKAR, V. A.** A "farinaceous" scheelite from the sub-polar Urals. (Akademiā nauk SSSR. Comptes rendus (Doklady), 1941. nouv. ser., v. 32, no. 4, p. 265-66)

Contains sketch of scheelite and cassiterite deposits discovered in Torgovaya River basin and other Northern Ural localities, remarks on decomposition of the scheelite, and conclusion: "The 'farinaceous' scheelite of the sub-polar Urals should be considered the result of a peculiar form of frost weathering developed in those places to a considerable extent."

**Copy seen:** DLC.

**VAKAR, V. A.,** see also Samollovich, R. L., & others. Geologičeskii Arktiki. 1937. No. 25812.

**VAKAR, V. A.,** see also Zubkov, A. I. Novee dannye o drevesnoj rastitel'nosti. 1948. No. 27619.

**27018. VAKHRAMEEV, V. A., and ĪU. M. PUSHCHAROVSKIĪ.** Novee dannye o geologičeskom stroenii Vil'fiskoi vpadiny i Priverkhovanskogo kraevogo proгиба. (Akademiā nauk SSSR. Doklady 1952. t. 84, no. 2, p. 333-36, sketch map) **Title tr.:** New data on the geological structure of the Vilyuysk depression and the Verkoyansk synclinal district.

Contains a report on recent geological surveys in this region (64° N. 120° E.) of central Yakutia; on stratigraphy, deposits, leading fossils, especially those of plants, etc. The conclusion is reached that the central area of the Vilyuysk depression is filled with upper Cretaceous deposits, whilst the periphery is largely composed of Jurassic formations. The genesis of the synclinal district is also traced. Bibliography (8 items).

**Copy seen:** DLC.

**27019. VALLE, KAARLO JOHANNES, 1887- , and ESKO SUOMALAINEN.** Havaintoja Petsamon linnustosta. (Suomalainen eläin-ja kasvitieteellinen seura Vanamo. Julkaisuja, 1934. v. 14, no. 2, p. 45-65, map) **Title tr.:** Observations on the birds at Petsamo.

Contains data on 69 birds including the predators *Buteo lagopus*, *Stercorarius longicaudus*, and *Nyctea nyctea*, observed near Petsamo during the summers of 1929-30. Bibliography (15 items). Summary in German.

**Copy seen:** DLC.

**27020. VALLE, KAARLO JOHANNES, 1887- .** Die Lepidopterenfauna des Petsamogebietes unter faunistisch-zoo-

geographischer Berücksichtigung - der Fauna ganz N-Fennoskandias. Helsinki. 1933. x, 262 p., illus., incl. map and 10 map-diags. (Suomalainen eläin-ja kasvitieteellinen seura Vanamo. Eläintieteellisiä julkaisuja. Annales zoologici, Osa 1, no. 3) **Title tr.:** Butterfly fauna of the Petsamo region with reference to the faunistic-zoogeography of all northern Fennoscandia.

Field work, 1928-30, provided the material for this comprehensive study of nearly 500 species of butterflies and moths. Their habitats, biotopes, phenology, distribution according to life-zone groups, and factors influencing this distribution are treated in comparison with, and in relation to similar fauna across northern Scandinavia. Bibliography (about 400 items).

**Copy seen:** DA.

**27021. VALLE, KAARLO JOHANNES, 1887- .** Materialien zur Odonatenfauna Finnlands, I. Über *Aeschna elisabethae* Djak. in Finnland. (Notulae entomologicae, 1929. v. 9, no. 1, p. 14-27, illus.) **Title tr.:** Materials to the Odonata fauna of Finland, I. On *Aeschna elisabethae* Djak. in Finland.

Contains a comparative study of dragonflies, *Aeschna elisabethae* and *A. subarctica*, with a consequent reduction of the first species to a subspecies of the latter, and a comparison of *A. subarctica elisabethae* native to Finnish and Russian Lapland, with another species, *A. juncea*.

**Copy seen:** DLC; MH-Z.

**27022. VALLE, KAARLO JOHANNES, 1887- .** Materialien zur Odonatenfauna Finnlands, II. *Somatochlora sahlbergi* Trybom. (Notulae entomologicae, 1931. v. 11, no. 2, p. 41-51, illus.) **Title tr.:** Materials to the Odonata fauna of Finland, II. *Somatochlora sahlbergi* Trybom.

Contains descriptions of male and female, and larvae of a dragonfly, *Somatochlora sahlbergi*, first described by Trybom (in 1889) from the specimens collected near Dudinka on lower Yenisey River, during Swedish Yenisey Expedition, of 1876, and found by the author in the Petsamo region of Finnish Lapland in 1928 and 1929, with a table for the determination of larvae of five *Somatochlora* species occurring in Finland.

**Copy seen:** DLC; MH-Z.

**27023. VALLE, KAARLO JOHANNES, 1887- .** Nordasiatische Odonaten. Hel-

sinki, 1932. 24 p., illus. (Suomalainen eläin- ja kasvitieteellinen seura Vanamo. Eläintieteellisiä julkaisuja. Annales zoologici, 1:2) **Title tr.:** Northern Asiatic Odonata.

A monograph on the dragon-flies in Finnish museums from collections made during 1880-1917 by many expeditions (noted with area, in introduction), including several in the far North of Siberia. The material (36 species) is described (p. 2-14) in taxonomic order, with notes of occurrence and distribution. A second section (p. 15-20) deals with the distribution of geographic groups. Bibliography (31 items). Summary in Finnish. **Copy seen:** DLC.

**27024. VALLE, KAARLO JOHANNES, 1887-** . Die Orthopterenfauna der nördlichsten Teile von Ostfennoskandia mit Berücksichtigung des Petsamo-Gebietes. (Notulae entomologicae, 1930. v. 10, no. 2, p. 40-42) **Title tr.:** Orthopteran fauna of the northernmost part of eastern Fennoscandia with special reference to the Petsamo region.

Contains the results of the author's observations (1920, 1929) on distribution of Orthoptera in Finnish and Russian Lapland (66°30'-69°57' N.), especially in the Petsamo (Pechenga) region (68°5'-69°57' N.); with a list of 13 species, localities and data on habitat and local distribution. **Copy seen:** DLC; MH-Z.

**27025. VALLE, KAARLO JOHANNES, 1887-** . Trichoptera aus Petsamo und anderen Teilen Lapplands in den Sommern 1928-1930 gesammelt. (Suomen hyönteistieteellinen aikakauskirja, 1951. v. 17, no. 1, p. 22-25) **Title tr.:** Trichoptera collected from Petsamo and other parts of Lapland in the summers of 1928-1930.

Contains notes on previous investigations in this region followed by a simple list of 56 species of trichopters collected there by the author, of which 21 are new for the Petsamo region and five new for all Lapland. Bibliography (10 items).

**Copy seen:** DLC.

**27026. VALLE, KAARLO JOHANNES, 1887-** . Über die Odonatenfauna des nördlichen Finnland mit besonderer Berücksichtigung des Petsamogebiets. Zur Kenntnis der Odonatenfauna Finnlands IV. (Suomalainen eläin- ja kasvitieteellinen seura Vanamo. Julkaisuja, 1932. v. 12, no. 2, p. 21-46, maps, diagrs.) **Title tr.:** On the Odonata-fauna of

northern Finland with particular consideration of the Petsamo area. A contribution to the Odonata fauna of Finland IV.

Author lists 21 species of dragonflies from this area with their distribution, new localities and frequency. Bibliography (21 items). For the preceding papers (I-III) in this group see *Arctic Bibliography*, No. 18513-18515.

**Copy seen:** DLC.

**27027. VALLE, KAARLO JOHANNES, 1887-** . Die Verbreitungsverhältnisse der ostfennoskandischen Odonaten. Zur Kenntnis der Odonaten-fauna Finnlands VI. Helsinki, Sanoma Oy., 1952. 87 p. sketch maps 1-50. (Acta entomologica fennica, 1952. no. 10) **Title tr.:** Distributional relations of Odonata in eastern Fennoscandia. Contribution to the knowledge of Odonata fauna of Finland VI.

Contains data on geographic distribution of 50 species of dragonflies, inhabiting eastern Fennoscandia (p. 10-54) with lists of localities and sketch map for each species. Distributional groups are shown and a comparison made of Scandinavian and total distribution of Scandinavian species (p. 55-62). Factors influencing the distribution are discussed: general, topographical, edaphic, hydrographic, etc. (p. 62-72) and a bibliography (165 items) appended. Data on distribution in Finnish and Russian Lapland are included. Summary in Finnish.

**Copy seen:** MH-Z.

**27028. VALLE, OTTO.** Venäläiseen kasvinjalostustyöhön tutustumassa varsinkin hiipinän subarktisella kasvinviljelyskoeasemalla. (Suomen maataloustieteellinen seura. Aikakauskirja, 1935. v. 7, no. 3, p. 135-48, illus.) **Title tr.:** Russian plant-breeding work especially at the Khibiny subarctic plant experiment station.

Contains observations from author's visit in 1934 to several plant experiment stations in U.S.S.R. He found the most interesting that at Khibiny (67°44' N. lat.) in Kola Peninsula, and describes its work on plant physiology and agrotechnology.

**Copy seen:** DLC.

**27029. VAL'TER, O. A., and V. A. BEGACHEVA.** Kharakteristika defatel'nosti kornevoj sistemy rastenij v Zapol'j'e. (Akademiā nauk SSSR. Botanicheskiĭ institut. Trudy, seriā 4, Ėksperimental'naiā botanika, 1950. vyp. 7, p. 18-32, tables) **Title tr.:** Characteristics

of the activity of the plants' root system in the polar region.

*Contains* the results of an ecological study of flowering plants in the Kola Peninsula, carried out in 1933-39, with data on activity of the root system of 26 species (204 individuals) of shrubs and herbs in various habitats and under various climatic conditions.

*Copy seen:* MH-A.

**27030. VAN CLEAVE, HARLEY JONES, 1886-**, and **R. B. WILLIAMS.** Acanthocephala from passerine birds in Alaska. (*Journal of parasitology*, Apr. 1951. v. 37, p. 151-59, incl. 2 plates)

Four species of parasitic intestinal worms discovered in three different songbirds near Juneau are dealt with, two described as new and the other two recorded for the first time in Alaska, and in one case the first in North America. Bibliography (8 items).

*Copy seen:* DSI-M.

**27031. VAN CLEAVE, HARLEY JONES, 1886-**, and **R. L. RAUSCH.** The acanthocephalan parasites of eider ducks. (*Helminthological Society of Washington. Proceedings*, Jan. 1951, v. 18, no. 1, p. 82-84)

*Contains* a review of earlier work done on these intestinal worms, stressing the fact that continental limitations disappear with the increase of our knowledge of these parasites. Included is a list of Acanthocephala from eider ducks; the latter are largely inhabitants of arctic and subarctic regions. Bibliography (15 items).

*Copy seen:* DAI.

**27032. VAN CLEAVE, HARLEY JONES, 1886-**, and **R. L. RAUSCH.** A new species of the acanthocephalan genus *Arhythmorhynchus* from sandpipers of Alaska. (*Journal of parasitology*, June 1950. v. 36, p. 278-83, incl. plate)

Morphologic and taxonomic study of a parasite found in large numbers in the Aleutian and red-backed sandpipers near Juneau, 1949. Full description of *A. comptus*, n. sp., is given and record of occurrence in 26 species of North American sandpipers, plovers, and related birds. Bibliography (6 items).

*Copy seen:* DSI-M.

**VAN DER BIJL, W.,** see **BIJL, W. van der.**

**27033. VAN DILLA, MARVIN,** and *others.* Laboratory and field studies: Special problem of hands. (*In:* Newburgh, L. H., ed. *Physiology of heat*

regulation and the science of clothing, 1949. p. 374-86, diagrs., tables.) *Other authors:* R. Day and P. A. Siple.

*Contains* a physical and physiological analysis of the problem of protecting hands against cold, followed by sections on insulation afforded by gloves; insulation required to keep fingers at comfort level and at 60° F., and the insulation value of mittens. Bibliography (4 items).

*Copy seen:* DLC.

**27034. VAN DRESSER, CLELAND.** The sign of the brown bear. (*American wildlife*, Sept.-Oct. 1940. v. 29, p. 203-206, illus.)

Note on the establishment in 1925, and the duties of the Alaska Game Commission.

*Copy seen:* DI.

**27035. VAN DUZEE, EDWARD PAYSON, 1861-1940.** Orthoptera, Neuroptera, Hemiptera and Lepidoptera [sic] from the Pribilof Islands, Alaska. (*In:* Hanna, G. D., and *others.* *Insects of the Pribilof Islands, Alaska*; 1921. p. 193-95)

*Contains* a note on 12 forms of insects belonging to the orders listed. The Lepidoptera are the first recorded from these islands.

*Copy seen:* DSI-M.

**27036. VAN DUZEE, MILLARD C.** A new species of the dipterous family Dolichopodidae from the Pribilof Islands, Alaska. (*In:* Hanna, G. D., and *others.* *Insects of the Pribilof Islands, Alaska*, 1921. p. 167-68)

*Contains* detailed description with a brief diagnostic note, of a new species: *Hydrophorus fumipennis* n. sp.

*Copy seen:* DSI-M.

**27037. VAN DYKE, EDWIN COOPER, 1869-**. The Coleoptera collected by the Katmai Expeditions. Washington, D. C., 1924. 26 p. (National Geographic Society. Contributed technical papers. Katmai series, vol. 2, no. 1)

*Contains* account of the beetles collected by Prof. James S. Hines, also a smaller collection made by A. J. Bassinger in the Katmai region and in other localities of Alaska Peninsula, stopping places of the National Geographic Society 4th and 5th Katmai Expeditions, 1917, 1919. Descriptive notes are given on about 150 (including two new) species indicating localities, references to the literature, etc.

*Copy seen:* DLC.

**27038. VAN DYKE, EDWIN COOPER, 1869-**. Coleoptera from the Pribilof Islands, Alaska. (*In:* Hanna, G. D.,

and others. Insects of the Pribilof Islands, Alaska, 1921. p. 156-66)

Contains a description of 21 species of beetles, one of them new, *Arpedium beringensis* n. sp. To make the list complete, five additional forms not represented in the present collection are also described.

**Copy seen:** DSI-M.

**27039. VANEY, CLEMENT.** Holothuries et érinoides recueillis par le *Pourquoi-Pas?* dans les mers arctiques. (Paris. Muséum National d'Histoire Naturelle. Bulletin, 1913. t. 19, p. 31-34) **Title tr.:** Holothurians and erinoids collected by the *Pourquoi-Pas?* in arctic seas.

Notes on three species of echinoderms two of which occurred in (1) waters south of Jan Mayen and (2) Denmark Strait.

**Copy seen:** DSI-M.

**27040. VANGENGĖIM, A. F.** Vtoroi mezhdunarodnyi polárníy god. (Mirovedenie, 1932, no. 5, p. 1-4, illus.) **Title tr.:** Second International Polar Year.

A summary of the tasks of the Second International Polar Year and the participation of Russian scientific organizations, headed by GIMK (Gidro-meteorologicheskii komitet) with emphasis on the close connection of meteorology and hydrology.

**Copy seen:** DLC.

**27041. VAN SCHACK, GEORGE BOOTH, 1903-** . Flowers of Island X. Prepared for the use of the men in the Armed Forces stationed on Island X. Published by Welfare and Recreation Dept. Navy 163. 1945. 38 p., illus., mimeographed.

A simple, elementary key for identification of some of the plants of the area, intended as a supplement to Dr. E. H. Walker's Key to the more common plants, appendix E in: *The Aleutian Islands: their people and natural history* (Smithsonian Institution. War background studies no. 21 (Arctic Bibliography, No. 19078). The notes are based on observations made by the author on this island (Attu) in the summer of 1944, the determination of identification of plants collected, was made by Dr. Walker.

Contains sections on collecting, grasses, sedges, rushes and non-flowering plants; descriptive terms of plant parts and organs; plant descriptions covering over 110 species belonging to 26 families; list of flowers by color. Appendix with instructions about collecting techniques, seasons, shipping of specimens, etc.

**Copy seen:** DA.

**27042. VAN STOCKUM, RONALD R.** Big Delta: survival at 50° below. (Marine Corps gazette, Dec. 1951. v. 35, no. 12, p. 42-50, incl. illus., diagr.)

"Information on equipment and procedures for survival in low temperatures is given, based on experiences at the Officers' Winter Indoctrination Course at Big Delta, in the Tanana valley region of Alaska. The arctic tent, a pyramidal 5-man double-walled tent, heated by a Yukon stove, provides satisfactory shelter. The M29C (Weasel) is an ideal over-snow vehicle that can pull 8-10 skiers at up to 30 mph. Effective cross-country movement is possible only if personnel are equipped with skis and snowshoes. The trail snowshoe is better suited to long marches; the bear-paw snowshoe is more suitable for working around equipment."—SIPRE.

**Copy seen:** DLC.

**27043. VAPPULA, NILO A.** Notes on the occurrence of some insect pests in northern Finland (prov. Ob) in summer 1933. (Notulae entomologicae, 1935, v. 15, no. 1-3, p. 37-39)

Contains a list of 13 insect pests and data on injury done to hay fields, red and black currant bushes and some cultivated plants in northern Ostrobothnia (Ostrobothnia borealis), in the communities Alatornio, Karunki, Ylitornio and Turvola (66°48' N.); the antler moth (*Charaea graminis* L.) is singled out as a particularly vicious pest.

**Copy seen:** DLC; MH-Z.

**27044. VARPAKHOVSKIĬ, NIKOLAIĀ ARKAD'EVICH, d. 1909.** Dannyiā po ikhtologicheskoi faunē basseina rēki Obi, I-II. (Akademiā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1897. t. 2, no. 2, p. 241-71, plates 10-12; (II) 1899, pub. 1900, t. 4, no. 4, p. 325-74, plates 17-19) **Title tr.:** Data on the ichthyological fauna of the Ob' River basin, I-II.

Contains a critical revision of 37 species collected by the author during his investigation of the fish fauna of the Ob' River in Western Siberia, including Latin diagnosis of *Squalius mehdem* n. sp. (pt. I), descriptions and measurements of other noteworthy species, synonymy, list of localities and critical notes.

**Copy seen:** DLC; MH-Z.

**27045. VARPAKHOVSKIĬ, NIKOLAIĀ ARKAD'EVICH, d. 1909.** Zur Ichthyofauna des Flusses Petschora. (Akademiā

nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1901. t. 6, no. 4, p. 585-608, plate 23) **Title tr.:** On the ichthyological fauna of the Pechora River.

**Contains** a comparison of the fish fauna of Ob' and Pechora Rivers and an enumeration of 23 fishes found in the Pechora, with tables of measurements; based partly on observations in the lower course of the river.

**Copy seen:** DLC; MH-Z.

**27046. VASIL'CHENKO, I. T.** Vskhody derev'ev i kustarnikov SSSR. (Akademiia nauk SSSR. Botanicheskii institut. Trudy, Seriya I, Flora i sistematika vysshikh rastenii, 1950. vyp. 9, p. 107-332, illus.) **Title tr.:** Seedlings of the trees and shrubs of the U.S.S.R.

**Contains** data on morphology of germination of the trees and shrubs of the U.S.S.R., keys to the classes, families, genera and species of flowering plants, based on the characters of seedlings; descriptions of about 350 seedlings of woody plants with data on cultivation and geographic distribution. Some species native to northern regions of the U.S.S.R. are included.

**Copy seen:** MH-A.

**27047. VASIL'EV, B. A.** Starinnye sposoby okhoty u primorskikh orochei. (Sovetskaiia etnografiia. Sbornik statei, 1940. t. 3, p. 161-71, 5 illus.) **Title tr.:** Old hunting methods of the coastal Orochis.

**Contains** description of fishing technique and implements, based on material, collected during the Tungus Expedition in 1927-28.

**Copy seen:** DLC.

**27048. VASIL'EV, I. A.** Kriticheskaiia zametka o topol'akh Dal'nevostochnogo kraia. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1938. no. 28 (1), p. 101-108, illus.) **Title tr.:** Notes on the poplars of the Far Eastern Region.

**Contains** a comparative taxonomic study of three related species of poplar growing in the Far East, *Populus koreana*, *P. suavolensis* and *P. maximoviczii*, the first two species occurring in the Kamchatka Peninsula and the Anadyr region; includes discussion of their systematic position, relationship and geographic areas. Summary in English.

**Copy seen:** DLC; MH-A.

**27049. VASIL'EV, V. G.** Opyt primeneniiia mineralogicheskogo analiza k izucheniiu mezokafnozofskikh rykhlykh

otlozhenii Nizhneobskogo basseina. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1939. novaiia seriia t. 47, Otdel. geol. t. 17, vyp. 2-3, p. 107-129, illus., diagrs., text maps) **Title tr.:** An attempt at mineralogical analysis in a study of middle Cenozoic unconsolidated deposits of the lower Ob' basin.

Two localities on the lower Ob' are discussed and tabular data presented on the mineralogical composition their deposits. Summary in English.

**Copy seen:** DLC; MH-Z.

**27050. VASIL'EV, VIKTOR NIKOLAEVICH, 1890-** . Dal'nevostochnye eli sektiia Omorica Willkm. (Botanicheskii zhurnal, 1950. t. 35, no. 5, p. 498-511, illus., text map) **Title tr.:** *Picea* section *Omorica* Willkm. of the Far East.

**Contains** a critical revision this section (*Omorica*) of spruce (*Picea*) occurring in the Far East; description of five species (one new) with synonymy, critical notes and data on geographic distribution, including *Picea ajanensis*, distributed on the coast of the Okhotsk Sea, northern Sakhalin and the Kamchatka Peninsula. The history of the spruce flora in the Far East and eastern Siberia, is presented on the basis of paleobotanical investigations of some other botanists.

**Copy seen:** DLC; MH-A

**27051. VASIL'EV, VIKTOR NIKOLAEVICH, 1890-** . K sistematike roda *Puccinellia* Parl. na Dal'nem Vostoke. Nota de *Puccinellia* Parl. ex Oriente Extremo. (Akademiia nauk SSSR. Botanicheskii institut. Botanicheskie materialy gerbariia, 1949. t. 11, p. 48-51) **Title tr.:** On systematics of the genus *Puccinellia* Parl. in the Far East.

**Contains** Latin and Russian diagnoses of *Puccinellia filiformis* n. sp., a grass from the coast of the Sea of Okhotsk, and descriptions of three new varieties of *Atropis geniculata* (from the same region) considered by the author as a species of *Puccinellia*.

**Copy seen:** MH-A.

**27052. VASIL'EV, VIKTOR NIKOLAEVICH, 1890-** . K sistematike velnikov. De genere *Calamagrostis* Adans, notae systematicae. (Akademiia nauk SSSR. Botanicheskii institut. Botanicheskie materialy gerbariia, 1950. t. 13, p. 47-56, illus.) **Title tr.:** On systematics of *Calamagrostis* Adans.

**Contains** Latin and Russian diagnoses of six new species of grasses: *Calamagros-*

its *confusa* and *C. magadanica* from the coast of the Okhotsk Sea, *C. hirsuta* native to Chukotsk Peninsula, *C. bracteolata* from the Bering Island and *C. caespitosa* found in the Kolyma River region.

**Copy seen:** MH-A.

**27053. VASIL'EV, VIKTOR NIKOLAEVICH, 1890-** . Novye iskopaemye vidy *Trapa* L. (Botanicheskii zhurnal, 1952. t. 37, no. 2, p. 226-30, illus.) **Title tr.:** New fossil species of *Trapa* L.

Contains descriptions of a new species of fossil water chestnut, *Trapa karavaevii*, n. sp., the fruit of which was found in 1946 in the Aldan River basin in Yakutia.

**Copy seen:** MH-A.

**27054. VASIL'EV, VIKTOR NIKOLAEVICH, 1890-** . Novyi vid berezy na kralnem severo-vostoke Azii v sv'язi s voprosom o proiskhozhdenii ego flory. (Akademiia nauk SSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1936. no. 21, p. 161-69, illus., text map) **Title tr.:** A new species of birch of the Asiatic Far Northeast in relation to the question of the origin of its flora.

Contains the Latin diagnosis of a shrubby form of birch, *Betula extremiorientalis* n. sp., native to the Anadyr River basin in Chukotsk Peninsula, a comparison with four other related species, and a discussion of the relationship of Chukotsk Peninsula flora with those of eastern Siberia and Alaska; the Asiatic element is found to be predominant. Summary in English.

**Copy seen:** DLC; MH-A.

**27055. VASIL'EV, VIKTOR NIKOLAEVICH, 1890-** . Novyi vid kustarnikovoï berezy iz Iakutii. Species nova generis *Betula* L. ex Yakutia. (Akademiia nauk SSSR. Botanicheskii institut. Botanicheskie materialy gerbariia, 1950. t. 13, p. 60-62, illus.) **Title tr.:** A new species of shrubby birch from Yakutia.

Contains Latin and Russian descriptions of a new species of fruticose birch, *Betula substapposa* found by M. N. Karavaev in Lena-Vilyuy region in the forest-steppe zone of central Yakutia; with notes on its ecology and phylogeny.

**Copy seen:** MH-A.

**27056. VASIL'EV, VIKTOR NIKOLAEVICH, 1890-** . Novyi vid *Polygonum* L. s Okhotskogo poberezh'ia. (Botanicheskii zhurnal SSSR, 1939. t. 24, no. 5-6, p. 425-27, illus.) **Title tr.:**

A new species of *Polygonum* L. from the shore of the Okhotsk Sea.

Latin and Russian description of this herb.

**Copy seen:** DLC.

**27057. VASIL'EV, VIKTOR NIKOLAEVICH, 1890-** . Novyi vid pushitsy vo flore SSSR. Species nova generis *Eriophorum* L. in flora URSS. (Akademiia nauk SSSR. Botanicheskii institut. Botanicheskie materialy gerbariia, 1950. t. 13, p. 57-59) **Title tr.:** A new species of cotton-grass in the flora of the U.S.S.R. . . . genus *Eriophorum* L.

Contains Latin and Russian diagnoses of a new species of sedge *Eriophorum subarcticum* n. sp., native to the arctic and subarctic tundra zone (type from Okhotsk region), also distributed in arctic regions of North America, Canada and Greenland; its relationship with other species of the same genus is discussed.

**Copy seen:** MH-A.

**27058. VASIL'EV, VIKTOR NIKOLAEVICH, 1890-** . Shamanski kostium i buben u iakutov. St. Peterburg, 1910. 47 p. 53 illus. (Akademiia nauk SSSR. Muzei po antropologii i etnografii. Sbornik. t. 1, vyp. 8) **Title tr.:** The shamanistic costume and drum among the Yakuts.

Contains description and drawings of shamanistic accessories, found by the author in the Yakut village Eastern Kangalas, district of Nakharsk (200 versts from Yakutsk) in 1906, including some general notes on shamanism.

**Copy seen:** DSI-M.

**27059. VASIL'EV, VIKTOR NIKOLAEVICH, 1890-** . Zakonomernosti protsessa smen rastitel'nosti. (Akademiia nauk SSSR. Botanicheskii institut. Materialy po istorii flory i rastitel'nosti SSSR, 1946. vyp. 2, p. 365-406) **Title tr.:** The process controlling the succession of vegetation.

Contains a general study of natural processes controlling the succession of vegetation, based chiefly on the "climax theory" of F. C. Clements, connecting the development of the vegetation with the migration principle; as an example the author cites the penetration of the taiga element into tundras of European and Asiatic U.S.S.R. (p. 380-83); bibliography (134 items). Summary in English.

**Copy seen:** MH-A.

**27060. VASILEVICH, GLAFIRA MAKAR'EVNA, 1895-** . Esselsko-chiringdinskii evenki; po kollektsii V. N. Va-

sil'eva. (Akademiâ nauk SSSR. Muzei antropologii i étnografii. Sbornik, 1951. t. 13, p. 154-86, 11 illus.) **Title tr.:** The Tungus of Esselsk-Chiringdin; from the collection of V. N. Vasil'ev.

*Contains* description and illustrations of Tungus clothing and implements, brought home by Vasil'ev in 1905 from Khatanga Expedition of the Russian Geographical Society. The collection, preserved in Muzei antropologii i étnografii, originated from the regions around the Lakes Yessey (68°30' N. 102°06' E.) and Chiringda. An extensive ethnographic report by K. M. Ryehkov was published earlier (*Arctic Bibliography*, No. 15057). **Copy seen:** DLC.

**27061. VASILEVICH, GLAFIRA MAKAR'EVNA, 1895-** . Évenkiiskââ ékspeditsiâ; predvaritel'nyi otechet. (Akademiâ nauk SSSR. Institut étnografii. Kratkie soobshcheniâ, 1949. t. 5, p. 54-63, 5 illus., map) **Title tr.:** An expedition to the Évenki; preliminary report.

*Contains* account of an expedition to the Tungus in 1947-48, organized by the Institute of Ethnography and the Yakut Institute for Scientific Research in Language, Literature and History. Its purpose was to study the ethnography and language of Tungus living around Dzhugdyr (58° N. 138° E.) southeast of the Aldan River. The party visited all the kolkhozes in the Timptonsk district and a few in the districts of Chitinsk and Uchursk, traveling 2,300 km. by automobile, horse and reindeer. Material was collected on mode of living in former and present times (hunting and reindeer breeding), customs from birth to death, family relations, shamanistic beliefs, folk art, folklore, etc. Cultural relations with Yakuts, the present situation in use of languages, life in kolkhozes etc., are also noted. **Copy seen:** DSI-M.

**27062. VASILEVICH, GLAFIRA MAKAR'EVNA 1895-** . Ĭazykovye dannye po terminu *zél~kél*. (Akademiâ nauk SSSR. Muzei antropologii i étnografii. Sbornik, 1949. t. 11, p. 154-56) **Title tr.:** The linguistic facts about the term *zél~kél*.

*Contains* data and discussion on how the mammoth and its tusks are called in the languages of the Tungus, Tawgis-Samoyeds, Yeniseians, Yukaghirs, Zyr-yans and others. **Copy seen:** DLC.

**27063. VASILEVICH, GLAFIRA MAKAR'EVNA, 1895-** . Korytoobraznââ

narta synskikh évenkov. (Akademiâ nauk SSSR. Muzei antropologii i étnografii. Sbornik, 1949. t. 10, p. 93-97, 5 illus.) **Title tr.:** The trough-shaped sledge of the Évenki from Sym.

*Contains* short description of a light toboggan shaped like a flat-bottomed boat, and made of pine bark, to be drawn by man, or man and dog. It is used mostly by hunters on their trips through the forest. The harness for dog (also man) is shown. **Copy seen:** DLC.

**27064. VASILEVICH, GLAFIRA MAKAR'EVNA, 1895-** . Po kolkhozam dzhugdyrskikh évenkov. (Vsesoûznoe geograficheskoe obshchestvo. Izvestiâ, 1950. t. 82, no. 2, p. 163-73) **Title tr.:** In the collective farms of the Dzhugdyr Évenki.

A detailed itinerary of a journey made in 1948-49 to the Tungus living between the Aldan and Gilyuy Rivers (55°-60° N.) on the west, and the Okhotsk Sea on the east. A few data are given on the origin and occupations of these Tungus and on the character of their farms. **Copy seen:** DLC.

**27065. VASILEVICH, GLAFIRA MAKAR'EVNA, 1895-** . Russko-évenkiiskii (russko-tungusskii) slovar', okolo 20.000 slov. Moskva, Gosudarstvennoe izd-vo inostrannykh i natsional'nykh slovar'ei, 1948. 331 p., illus. **Title tr.:** Russian-Évenki (Russian-Tungus) dictionary, of approximately 20,000 words. **Copy seen:** DLC.

**27066. VASILEVICH, GLAFIRA MAKAR'EVNA, 1895-** . and M. G. LEVIN. Tipy olenevodstva i ikh proiskhozhdenie. (Sovetskââ étnografiâ, 1951, no. 1, p. 63-87, 12 illus.) **Title tr.:** Types of reindeer husbandry and their origin.

*Contains* discussion of reindeer chiefly as a transport animal. Types of sledges and their seats, harness, saddles and hitches are described and figured. Several types of harnessing are treated in detail: (1) Chukchi-Koryak, (2) Tungus-Yakut, (3) Samoyedic, (4) Lappish, and (5) Orobian. The authors favor the hypothesis that reindeer-breeding originated in the Sayan Mountains region. They think also that horse-breeding led to the idea of domesticating the reindeer and using it as a draft animal. **Copy seen:** DLC.

**27067. VASILEVICH, GLAFIRA MAKAR'EVNA, 1895-** . Tungusskii nagrud-

nik u narodov Sibiri. (Akademiâ nauk SSSR. Muzei antropologii i étnografii. Sbornik, 1949. t. 11, p. 42-61, 30 illus., col. plate) **Title tr.:** The Tungusian breastplate among the Siberian peoples.

Contains account of Tungus national costume with special attention to the breastplate which was adopted by many other Siberian peoples: Yakuts, Dolgans, Yukaghirs, Yeniseians, and Samoyeds.

**Copy seen:** DLC.

**27068. VAS'KOVSKIÏ, A. P.** Dlinnopalyi kulik-vorobel' v al'piskoi zone Okhotsko-Kolym'skogo vodorazdela. (Priroda, 1949. No. 1, p. 83) **Title tr.:** *Limonites subminuta* in the alpine zone of the Okhotsk-Kolyma watershed.

Contains a report of the find on the watershed between Kolyma River and Okhotsk, of two nests of *Limonites subminuta*, a bird previously known from Kurile and Commander Islands.

**Copy seen:** DLC; MH.

**27069. VASSY, A., and É. VASSY.** Recherches sur l'ozone atmosphérique et la température de la stratosphère en Laponie Suédoise. (Tellus, May 1950. v. 2, no. 2, p. 69-73, 3 figs.) **Title tr.:** Investigation of atmospheric ozone and the temperature of the stratosphere in Swedish Lapland.

"Measurements of ozone in the stratosphere were made by Barbier, Vassy and others at Abisko in Swedish Lapland from Dec. 1934 to March 1935 and during the summer of 1949 by the authors. Other studies made in the Northern Hemisphere are compared with those made in Lapland. An annual mean temperature variation of 100° C. is shown for the ozone layer at Abisko, due to the extreme annual variation in duration of insolation. The amount of ozone at various levels and seasons is discussed. Further studies and measurements necessary to answer questions as to origin of ozone."—*Meteorological abstracts and bibliography*, Nov. 1950. v. 1, no. 11, p. 708. Bibliography (17 items) and English summary are included.

**Copy seen:** MB-BH.

**VASSY, Mme. ÉTIENNE, see Vassy, A., & É. Vassy.** Recherches sur l'ozone atmosphérique. 1950. No. 27069.

**VAUGHAN, ELIZABETH, see Davidson, F. A., & E. Vaughan.** Relation population size to marine growth in pink salmon. 1941. No. 21364.

**27070. VAYSSIÈRE, ALBERT JEAN BAPTISTE MARIE, 1854-** Mollusques euptéropodes (ptéropodes thécosomes) provenant des campagnes des yachts *Hirondelle* et *Princesse-Alice* (1885-1913). Monaco, 1915. 3 p. 1., 226 p., 14 plates. (Résultats des campagnes scientifiques accomplies sur son yacht par Albert 1er Prince de Monaco. Fasc. 47) **Title tr.:** Eupteropod molluscs (thecosomate pteropods) resulting from the cruises of the yachts *Hirondelle* and *Princesse-Alice*, 1885-1913.

Comprehensive memoir describing and discussing the occurrence and distribution of 29 species of pteropods of which only one (*Limacina helicina*) was found in arctic waters (three localities in the West Spitsbergen region).

**Copy seen:** DLC.

**27071. VAYSSIÈRE, ALBERT JEAN BAPTISTE MARIE, 1854-** Note sur les mollusques opisthobranches nus rapportés de la Nouvelle-Zemble en 1908 par M. Ch. Bénard. (Paris. Muséum national d'histoire naturelle. Bulletin, 1913. t. 19, p. 109) **Title tr.:** Note on the opisthobranchiate nudibranch molluscs reported from Novaya Zemlya in 1908 by Ch. Benard.

Brief mention of the four species of nudibranchs collected near the southern end of Novaya Zemlya, in Barents Sea. Full descriptions appear in the author's *Opisthobranches nus des côtes*, etc., 1913 (see *Arctic Bibliography*, No. 18603).

**Copy seen:** DSI-M.

**27072. VEBAEK, CHRISTEN LEIF.** Nonneklosteret i Unartoq Fjorden. Nordboarkæologiske undersøgelser i Julianehaabs Distrikt sommeren 1946. (Grønlandsposten, Dec. 1946. Aargang 5, nr. 11-12, p. 287-89, illus.) **Title tr.:** A nunnery in Unartoq Fiord. Nordbo archeologic research in Julianhaab District summer 1946.

Notes on the Nordbo culture of the Middle Ages as studied since World War II in Julianehaab District, West Greenland, especially ruins of a nunnery near Narssarssuak, Unartoq Fiord.

**Copy seen:** DLC.

**27073. VEBER, VALERIAN NIKOLAEVICH, 1871-1940.** Iz ékspeditsii "Ermaka" v 1901 godu. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1908. Ser. 2, chast' 46, vyp. 2, p. 213-46, illus.) **Title tr.:**

From the expedition of the *Ermak* in 1901.

*Contains* a general account of the expedition of Vice-Admiral S. O. Makarov on the ice-breaker *Ermak*, with itinerary, descriptions of brief trips to Spitsbergen (Whales Point), Franz Josef Land (Cape Flora and Hochstetter Island (ostrov Gokhshtettera) 80°11' N. 59°36' E.). Data are given on the orography and geological structure of Krestovaya Guba (Cape Smirnova: 74°10'1" N. 55°2'19" E.) and Mashigina Guba on the western coast of the North Island of Novaya Zemlya (see text maps); geological description of Hochstetter Island (see profiles) and notes on the bottom deposits of the Barents Sea are included.

*Copy seen:* MH-Z.

**VEBER, VALERIAN NIKOLAEVICH, 1871-1940,** *see also* Makarov, S. O. S. O. Makarov i zavoevanie Arktiki. 1943. No. 24121.

**27074. VEDERMAN, JOSEPH, and C. D. SMITH.** The winter mid-troposphere circulation near the North Pole. (American Meteorological Society. Bulletin, June 1950. v. 31, p. 197-205, illus.)

"Analysis of 750 observations made at ½ hourly intervals on 40 flights, of which 31 reached the North Pole, give data for construction of the first accurate charts of mean height of the 500 mb. surface over the Arctic Ocean between Point Barrow and the Pole. Extreme variations (2,810 ft.) are noted in height of the isobaric surface, but not so much range in temperature (19° C.) compared with Ely, Nevada (1,630 ft. and 27° C. respectively). Heights and temperatures are lower than at Barrow, but the gradient is less than over the continent, and even lower temperatures are found at Eureka Sound, Canada, than at the Pole. Winds are weak and predominantly westerly. Individual flights are analyzed and illustrated by cross sections and synoptic charts; and the whole is tied in with theories of the general circulation and the best existing models of pressure over the Arctic."—*Meteorological abstracts and bibliography*, Aug. 1950, no. 8, p. 495.

*Copy seen:* DLC; MH-BH.

**27075. VEGARD, LARS, 1880-** . Neue Ergebnisse über das Leuchten verfestigter Gase und ihre Beziehungen zum Nordlicht. (Naturwissenschaften, May

20, 1927. Bd. 15, Heft. 20, p. 438-44, diagrs.) *Title tr.:* New results on the luminescence of solidified gases and its relation to the aurora.

*Contains* a report of the author's investigations on the band-spectra of solid nitrogen and their physical explanation. The studies were made in support of his theory, that the auroras originate from a layer of dust, made up of solid nitrogen crystals. *Copy seen:* DLC.

**27076. VEGARD, LARS, 1880-** . Das Nordlicht und die höheren Atmosphärenschichten. (Naturwissenschaften, June 19, 1925. Bd. 13, heft 25, p. 541-50) *Title tr.:* The aurora and the higher strata of the atmosphere.

*Contains* an account of the investigations and theories regarding the aurora and the forces causing this phenomenon. The nature of its light, especially in relation to the composition of the higher atmosphere, and author's studies on this problem are outlined. His conclusions: the predominant part of the aurora is caused by cathode-rays hitting a layer of minute nitrogen crystals (dust) which are at a temperature of 35.5° abs. or below. *Copy seen:* DLC.

**27077. VEINBERG, BORIS PETROVICH, 1871-** . Symmetry of the magnetic field in polar regions. (Akademiia nauk SSSR. Comptes rendus. (Doklady), 1941. nouv. ser., v. 31, no. 2, p. 117-18, illus.) *Copy seen:* DLC.

**27078. VEINBERG, K. B.** K voprosu o primerzanii sanei. (Problemy arktiki, 1938. no. 4, p. 151-55, incl. tables) *Title tr.:* On the problem of sled adfreezing.

"A study was made to determine the force necessary to move sleds which have been stationary for a determined interval at temperatures below 0° C. Sleds were equipped with either 2 or 3 runners and the force required was determined with dynamometer. Data show that the temperature changes have the least effect on the force necessary to overcome inertia. The motivating force was dependent on the sled load and the time the sleds remained stationary. The force to move the sleds after 2 to 3 min. of rest was 2 to 4 times as great as that necessary to keep the sleds in motion. The force was about 12 times as great after 1 to 1.5 hours of rest. It is suggested that the sled be rocked prior to pulling to break up the adhesion between the snow and

the sleds."—SIPRE. Previously listed in *Arctic Bibliography*, No. 18646.

**Copy seen:** DLC.

**27079. VEM ÄR VEM I NORDEN**, biografisk handbok; huvudredaktör Gunnar Sjöström. Stockholm, Albert Bonniers förlag, 1941. 1544 p. **Title tr.:** Who is who in the North, biographical handbook; edited by Gunnar Sjöström.

**Contains** biographical data on living persons: Denmark about 3,000; Finland 1,000; Iceland 230; Norway 3,000 and Sweden 4,700. Includes many scientists and others who work in arctic and sub-arctic regions, especially of Scandinavia and Finland, Greenland and Iceland.

**Copy seen:** DLC.

**27080. VENHO, S. N.** A study of meteorological phenomena connected with the outflow of polar air masses over western Europe. Helsinki, 1949. 75 p., 30 illus., 3 tables, 72 refs., equations. (Finland. Meteorologinen keskuslaitos. Toimituksia. Meteorologische Zentralanstalt. Mitteilungen, no. 33)

"A detailed synoptic aerological study of the structure and movement of a cold polar air mass which passed over northern Europe during late April 1939. In addition the problems of anticyclogenesis, seclusion of cold air, the formation of the upper level cyclone and the characteristics of the tropopause (based on data from seven stations in north and west Europe) are considered. Tropopause varied from 6.0 to 10.9 km. during the passage of this air mass."—*Meteorological abstracts and bibliography*, Oct. 1950. v. 1, no. 10, p. 644. **Copy seen:** DWB: MH-BH.

**27081. VERBOV, A. F.** Fizioterapiia pri otmorozheniakh. (Vestnik khirurgii, Aug. 1940. t. 60, kn. 1-2, p. 86) **Title tr.:** Physiotherapy in frostbite.

**Contains** a brief abstract of a report to the Leningrad Conference of Workers of Evacuation Hospitals and Specialist Sections of Hospitals and Institutes (May 25-27, 1940). Author used alternately ultra-frequent electric fields and ultra-violet rays in frostbite. Fact is stressed that physiotherapeutic methods applied to frostbite are neither specific nor universal. **Copy seen:** DLC.

**27082. VERBOV, A. F.** Ob osteomielite pri otmorozhenii. (Khirurgiia, 1945 god 15, no. 4, p. 40-45) **Title tr.:** On osteomyelitis in frostbite.

**Contains** a study dealing with lack of specificity in frostbite-osteomyelitis; its

etiology and pathology; causes of osteomyelitis not directly connected with frostbite; characteristic features of frostbite-osteomyelitis; prophylaxis.

**Copy seen:** DLC.

**VERBOV, A. F.,** see also Davidenkov, S. N., & A. F. Verbov. Nevriy otmorozhennykh. 1943. No. 21361.

**27083. VERBOV, G. D.** Perezhitki rodovogo stroia u nenets. (Sovetskaja etnografiia. Shornik statei, 1939. t. 2, p. 43-66, 13 illus.) **Title tr.:** Survivals of clan organization among the Nenets.

**Contains** description of clan organization among the European and Asiatic Samoyeds (Nenets), based on material collected by the author during 1928-1937. There are about 85 to 90 clans, the members of which consider themselves descendants of a common male ancestor and may not intermarry; formerly all the clans were divided into two (or three?) exogamous phratries; the clan (*erka*) and its institutions disappear more rapidly among the European than among the Asiatic Samoyeds. The two most important institutions of a clan are its common sacrificial places and burial places. A group of Ostyak clans which has been partially assimilated by Samoyeds is noted. Summary in French. **Copy seen:** DLC.

**VERBOV, G. D.,** see also Zuev, V. F. Materialy po etnograf. 1771-72. 1947. No. 27626.

**27084. VERCEL, ROGER, 1894-** Croisiere blanche; récit. Paris, A. Michel [1938] 2 p. l., [7]-255 p. 1 l. **Title tr.:** The white cruise, a tale.

Account in popular style of a trip on the *Lafayette* from France by Scotland, Iceland, Jan Mayen, West Spitsbergen, Bear Island and northern Norway to Bergen in the summer of 1936; with a professional writer's impressions and anecdotes of the places visited, a meeting with the *Pourquoi-Pas?* and Chareot, experiences of the voyage, etc.

**Copy seen:** DLC.

**27085. VERESHCHAGIN, GLEB IUR'EVICH, 1889-1944.** Plankton vodoemov poluostrova Yamala. Cladocera. (Akademika nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1913. t. 18, no. 2, p. 169-220, illus.) **Title tr.:** Plankton of basins on Yamal Peninsula. Cladocera.

**Contains** a study of the plankton of various water basins (lakes, ponds, pools,

etc.) of Yamal Peninsula collected by B. M. Zhitkov's expedition in 1908; with a list of 50 localities where samples were taken, an enumeration of 43 species and some lower units of Cladocera, with descriptions of *Alonella setosa* and *Daphnia arctica* n. spp. and three new varieties. Author gives characteristics and elements of the fauna, the distributions of Cladocera in various types of water basin; bibliographical footnotes.

**Copy seen:** DLC; MH-Z.

**27086. VERIGIN, N. N.** O termodinamicheskom raschete iskustvennogo zamorazhivaniia gruntov. (Akademiia nauk SSSR. Doklady, 1951. v. 81, no. 5, p. 803-806, table) **Title tr.:** On thermodynamic calculations of artificial freezing of the ground.

Contains calculations applicable in engineering work, when artificial freezing is applied, as in construction of shafts, tunnels and other earth works.

**Copy seen:** DLC.

**27087. VERNADSKIĬ, VLADIMIR IVANOVICH, 1863-1945.** On some current problems in the study of the ice of the arctic regions. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1938. nouv. ser., v. 19, no. 8, p. 625-28)

A résumé of the current and desired studies on fundamental problems of arctic ice and water. **Copy seen:** DLC.

**27088. VERNIDUB, M. F.** Strelozubyie paltusy dalnevostochnykh morei. (Petrodvorets. Biologicheskii Institut. Trudy, 1938. no. 16, p. 182-99, illus.) **Title tr.:** The arrow-toothed halibut from Far-Eastern seas.

Contains a comparative study of the morphology, biology and geographic distribution of two species of halibut, *Atheresthes evermanni*, native to Okhotsk and Bering Sea (Kamchatka waters), and *A. stomias*, occurring in Bering Sea, Aleutian waters and Gulf of Alaska; based on an investigation of 60 specimens and illustrated by tables of measurements, diagrams and a text map. Summary in English.

**Copy seen:** DLC; MH-Z.

**27089. VES' DAL'NIĬ VOSTOK; SPRAVOCHNIK NA 1925 god.** Khabarovsk, izd. Dal'ka, [1925]. 196 p., fold. map, tables. **Title tr.:** All of the Far East; manual for the year 1925.

A practical guide for the area, containing information on communication, bank-

ing, industry, cooperatives, etc. Includes coastal regions of the Sea of Okhotsk and Kamchatka.

**Copy seen:** DLC.

**27090. VESELKIN, P. N.** O vosstanovlenii serdechnoi deiatel'nosti i dykhanii u krolikov posle "klinicheskoi smerti" ot okhlazhdeniia. (Bülleten' éksperimental'noi biologii i meditsiny, 1943. t. 15, vyp. 1-2, p. 58-60) **Title tr.:** On restoration of cardiac activity and respiration in rabbits following "clinical death" by cooling.

Contains a study on rabbits made hypothermic by application of ice. Respiration, blood pressure, rectal temperature and heart-beat are recorded at various stages of hypothermia and the condition of the heart followed after the "clinical death." Respiration and heart-beat could be reestablished 20-30 minutes after "clinical death" by a combination of artificial respiration, heart massage, intra-arterial administration of glucose with adrenalin and quick rewarming. It is noteworthy that it was possible to reestablish heart-beat at body temperature lower than that at which heart-beating ceased. All rabbits were dead the next day.

**Copy seen:** DLC.

**27091. VESELOVSKIĬ, I. A.** Ofsenka seiántsev kartofeliä. (Karelo-Murmanskiĭ krai, 1934. v. 12, no. 3-4, p. 25-27, tables) **Title tr.:** An evaluation of potato seedlings.

Contains a technical and mathematical analysis of the productivity of various races of potatoes grown from seeds in the Murman, and in arctic areas generally.

**Copy seen:** DLC.

**27092. VESELOVSKIĬ, I. A.** Problemy selektsii kartofeliä na severe. (Karelo-Murmanskiĭ krai, 1933. v. 11, no. 1-2, p. 34-40, illus.) **Title tr.:** Problems of selecting potatoes in the North.

Contains report on selection and cross-breeding of cultivated, and some wild forms recently collected in South America. Frost resistance, quick growth and size of crop were main points of consideration in selection.

**Copy seen:** DLC.

**27093. VESELOVSKIĬ, I. A.** Za prodvizhenie graničsy zemledeliä na Sever. (Karelo-Murmanskiĭ krai, 1933. v. 11, no. 3-4, p. 23-27, illus.) **Title tr.:** For an advance of the limits of agriculture to the North.

Contains discussion of the importance of horticulture and agriculture as a sup-

port for the developing industry of the Kola and northern Karelian areas. A list of acclimatized vegetables and forage plants is presented. A considerable section of the article is devoted to the problems of acclimatization of potatoes.

**Copy seen:** DLC.

**27094. VESIKIVI, ANTTI.** Savimaalla ja viljellyllä suomaalla sekä Ojitetulla ja ojittamattomalla rakharamieellä suoritettujen ilman lämptilahavaintojen tuloksia. (Finska mosskulturföreningen.

Vetenskapliga skrifter. Suomen suoviljelysyhdistys. Tieteellisiä julkaisuja), 1944. no. 18, p. 1-53, illus., tables)

**Title tr.:** Air-temperature measurement results over clay soil, farmed moorland, and drained and undrained wet sphagnum fuscum-pine-peat-bog.

Contains an introduction to the field; data on temperature observations above and on the surface of clay soil and farmed moorland during the years 1925-38 (these statistics are contrasted in various ways showing that clay and the air over clay is warmer); air measurements over drained and undrained peat bog and clay and farmed swampland during 1936-39; temperature measurements in relation to the depth of the ground water in drained and undrained peat bog; depth of frost and speed of melting of ice, 1937-39. The studies support in general the theory that the draining of swamps raises the temperature of the area and that clay is warmer, freezes later and thaws sooner. Bibliography (5 items). Summary in German.

**Copy seen:** DA.

**VESNIN, V. M.,** see Orlov, F. B., & V. M. Vesnin. Bol'she vnimaniā. 1952. No. 24859.

**27095. VETUKHOVA, A.** Chemical treatment of winter wheat seed as a measure to increase frost resistance. (Akademika nauk SSSR. Comptes rendus (Doklady), 1939. nouv. ser., v. 24, no. 6, p. 605-608, tables)

Description of a pre-sowing treatment of seeds with chemicals increasing their frost resistance.

**Copy seen:** DLC.

**27096. VIBE, CHRISTIAN, 1913-** Dyrelivet. (In: Birket-Smith, K., and others. Grønlands bogen, 1950. v. 1, p. 181-204, illus., incl. 4 map diags.)

**Title tr.:** The animal life.

Remarks on origin of Greenlandic fauna and its distribution; brief notes

on birds and mammals of the seas and drift ice, marine fishes and plankton, deep-sea and bottom organisms; shore birds, inland mammals, and fresh-water fauna.

**Copy seen:** DSI-M.

**27097. VIBE, CHRISTIAN, 1913-** The marine mammals and the marine fauna in the Thule District (Northwest Greenland) with observations on ice conditions in 1939-41. København, C. A. Reitzel, 1950. 115 p., illus. (incl. 6 maps, tables, diags.), 2 plates (1 fold.). (Meddelelser om Grønland. Bd. 150, nr. 6)

Results of the Danish Thule and Ellesmere Land Expedition 1939-41; leader, James van Hauen. This five-man expedition used Nege on Murchison Sound as a base and made sledge journeys to Inglefield and Washington Lands in northwest Greenland and to Ellesmere and Axel Heiberg Islands. Introductory remarks include description (in some detail and with map) of ice conditions from Cape York to Hall Basin during the two winters 1939-40, 1940-41; the iceberg grounds, open water due to currents, and influence of ice on marine fauna. Full description and discussion follows of the distribution, migration, food, wintering, breeding conditions, hunting, and economic importance to the Polar Eskimo, of the walrus, the seals and the narwhal. Survey of distribution is given of the most important food elements for these mammals, the littoral fauna of the Thule region, and the marine animal life west of Ellesmere Island. Trichinosis in arctic mammals is discussed, its incidence and sources of infection; two subtropical crustaceans found north of Thule are noted; and a list offered of nearly two hundred marine invertebrate species collected during the expedition.

**Copy seen:** DGS; DLC; DSI-M.

**27098. VIBE, CHRISTIAN, 1913-** Some insects new to Greenland. (Ento, mologiske meddelelser, 1950. Bd. 25 p. 419-20)

Brief survey of most important finds new to Greenland, made since 1939 (to be reported in full at a later date). Sixteen species are listed, one from north of Thule and the others from West Greenland.

**Copy seen:** DSI-M.

**27099. VIBE, CHRISTIAN, 1913-** Traek af hvalrossens og remmesælens biologi i Thule-distriktet. (Grønlands-

posten, Dec. 1946. Aargang 5, nr. 11-12, p. 282-87, illus., sketch map) **Title tr.:** Sketch of the biology of walrus and bearded seal in Thule District.

On the basis of observations made during the Danish Thule and Ellesmere Land Expedition, 1939-41, brief summary is given of the seasonal occurrence, distribution, and food of these two marine mammals off the northwest coast of Greenland north of Cape York and throughout Smith Sound, both of importance in the economy of the Polar Eskimos.

**Copy seen:** DLC.

**VIBE, CHRISTIAN, 1913-**, see also Madsen, H., & C. Vibe. Grønlandske havørn og dens tæde. 1950. No. 24109.

**VIBE, CHRISTIAN, 1913-**, see also Nielsen, P. *Limonia vibei* n. sp. 1951. No. 24662.

**VIBE, CHRISTIAN, 1913-**, see also Noe-Nygaard, A., & others. Notes on Danish scientific work. 1951. No. 24684.

**27100. VICTOR, PAUL ÉMILE, 1907-**. Apoutsiak, le petit flocon de neige. Paris, Flammarion, 1948. 32 p., illus. (Les Albums du Père Castor) **Title tr.:** Apoutsiak, little snowflake.

Drawings and story (for children of all ages) to depict the life of an East Greenland Eskimo boy in a settlement (Angmagssalik) where the author wintered 1934-34 and 1936-37 for ethnographic work. Reviewed in *Arctic*, Sept. 1951. v. 4, no. 2, p. 136-37.

**Copy seen:** DLC.

**27101. VICTOR, PAUL ÉMILE, 1907-**. The French polar research expeditions 1948-1951; a report. New York, French Embassy Press & Information Division, 1950. 24 p. incl. covers., illus. incl. 3 maps.

Pamphlet by the leader, stating the purposes and organization of the Arctic and Antarctic Expeditions, and briefly reporting on landing operations, road construction, reconnaissances, and storage of equipment on the Greenland icecap during the preliminary expedition of 1948 (p. 6-12). Outline (p. 13-23) of the Greenland icecap expedition 1949-50, plan of the station and program for 1950-51, giving "an account of the setting up by motorized transport and parachute of a meteorological (including radiosonde) and glaciological station in 1949, very near Eismitte, 70°54' N. 40°42' W.,

9,900 ft., and its occupation in 1950-51. Lowest temperature -80° F."—*Meteorological abstracts and bibliography*, Apr. 1951. v. 2, no. 4, p. 251.

**Copy seen:** DGS.

**27102. VICTOR, PAUL ÉMILE, 1907-**. Groenland, 1948-1949; 90 photographies en noir et en couleurs de J.-J. Languepin, Marcel Ichac, Jacques Masson. Paris, Arthaud, [1951] 47 p., 70 plates (part col.) maps **Title tr.:** Greenland, 1948-1949. 90 photographs in black and white and in colors by J.-J. Languepin, Marcel Ichac and Jacques Masson.

Account by the leader, with illus. by the photographers, of the preparatory (summer 1948) and main (wintering 1949-50) French expeditions to West Greenland and the icecap (précis of the work appeared in *Polar record*, July 1951, v. 6, no. 2, p. 258-60).

**Copy seen:** Nhd.

**27103. VICTOR, PAUL ÉMILE, 1907-**. My Eskimo life. London, H. Hamilton [1938]. 5 p. l., 13-349 p. incl. illus., maps, diags., front., plates, ports., maps.

Translation by Jocelyn Godefroi of Victor's *Boréal; la joie dans la nuit*, 1938 (see *Arctic Bibliography*, No. 18690).

**Copy seen:** DLC.

**27104. VICTOR, PAUL ÉMILE, 1907-**, and others. Rapport préliminaire de la campagne au Groenland 1949. [Paris, 1950]. p.l., 80 p., tables, diags. (Expéditions polaires françaises. Expédition arctique, 1949. Publications no. 10) **Title tr.:** Preliminary report on the expedition to Greenland 1949.

**Contents:** Victor, P. É. Rapport général (p. 1-14). General report by the leader, on the second (1949) season of the expedition, following the preparatory expedition of 1948. Organization, participants, transportation (of 35 members, 140 tons equipment), locality (Atâ Sund 69°40' N. 51° W.), establishment and work of six camps, installation of the central (inland ice) research station (70°54' N. 40°42' W. 3000 m. altitude, about 400 m. from the edge of the icecap), aerial and ground transport, equipment, etc., return of the expedition (except eight men left to winter at the icecap station) and plans for the 1950 season are summarized.

NEVIÈRE, J. Géodésie.

PERROUD, P. Navigation terrestre.

PEREZ, M. Glaciologie.

NÉGRÉ, B. Sondages thermiques.

Pluvillage, P., and G. Taylor. Champ électrique de l'atmosphère (p. 31-32). Note on method, data and mean values from three stations and several other points; comparison with past year, etc.

Robley, R. Optique atmosphérique (p. 33). Note stating the object of study (twilight), location of the laboratory and instruments used.

MARTIN, J. Gravimétrie.

MARTIN, J., and A. JOSET. Sondages sismiques.

Bouché, M. Météorologie (p. 59). Note on extent, frequency, height above the ground of temperature observations; winds, radiosonde, etc.

Wegmann, E. Relief des chaînes marginales orientales du Groenland (p. 60-61). Note on nunataks of eastern Greenland based on air reconnaissance.

Cailleux, A. Sciences naturelles et géographie (p. 62-65). List of papers so far published on this party's work, followed by account of red layers of the basalts of Disko on pebbles and stones found in the moraines of Greenland, and on the physical, psychological and cultural similarities between the Eskimos and some Chinese tribes living in the mountains of Yunnan and Tonkin.

RAVIER, J. Géologie.

Malaurie, J. Géographie (p. 73-75). Notes on the geomorphology of Disko Island and the region of Ege and comment on the acculturation of the Disko Bay Eskimos.

de Lesse, H. Entomologie et botanique (p. 76-80). Notes on the explored area of Ege, on soil insects, surface insects, spiders and lake plankton; also notes on vascular cryptogamous and phanerogamous plants.

Papers by Nevrière, Perroud, Perez, Nègré, Martin, Martin and Joset, and Ravier appear in this Bibliography under their authors' names.

**Copy seen:** CaMAI.

VICTOR, PAUL ÉMILE, 1907- . see also *Polar record*. French exped. to Greenland 1949-50. 1951. No. 25152.

27105. VIETS, KARL von. Meeresmilben (Halacaridae, Acari) von den Aleuten. (Arkiv för zoologi. 1951. Andra ser. t. 1, häfte 6, no. 34, p. 511-18, illus.) **Title tr.:** Marine mites (Halacaridae, Acari) of the Aleutian Islands.

Contains descriptions of four species of marine mites (Halacaridae), including three new to science, brought home by

Eric Hultén in 1932 from Unalaska Island. **Copy seen:** DSI-M; MH-Z.

VIETTE, P., see de Lesse, H., & P. Viette. Zoologie 1e. note Microlepidoptera. 1949. No. 21399.

27106. VIKING FUND SUMMER SEMINAR IN PHYSICAL ANTHROPOLOGY. 4th, New York, Sept. 1-3, 1949. Papers on the physical anthropology of the American Indian, edited by William S. Laughlin. New York, Viking Fund, 1951. vii, 202 p. illus., maps.

**Contents:** Introduction by Wm. S. Laughlin (correlating papers listed below, and summarizing new emphasis on processes of change, sequence of types, validity of criteria; and use of new methods in genetic morphological characterization, cultural and linguistic grouping in formulation of racial types).

1. BIRDELL, J. B. The problem of the early peopling of the Americas as viewed from Asia. p. 1-68a.

2. Newman, M. T. The sequence of Indian physical types in South America. p. 69-97.

3. LAUGHLIN, W. S. The Alaska gateway viewed from the Aleutian Islands. p. 98-126.

4. BOYD, W. C. The blood groups and types. p. 127-37.

5. DAHLBERG, A. A. The dentition of the American Indian. p. 138-76.

6. SPUHLER, J. N. Some genetic variations in American Indians. p. 177-202.

Each paper (except that of Newman and the introduction) appears in this Bibliography under its author's name.

**Copy seen:** DAL.

27107. VIKSTEN, ALBERT, 1889- . Abenteuer im Eismeer. [Berlin, Büchergilde Gutenberg, 1929] 2 p.l., 7-199, [1] p. incl. illus., plates. **Title tr.:** Adventures in the arctic sea.

Translated from the Swedish *Bland björnskyttar och sälfångare i Norra Ishavet*, 1921 (copy not located).

Sketches illustrated with ink-brush drawings, dealing with hunters and hunting (chiefly for bear and seal) on northern Spitsbergen, Novaya Zemlya and in Kara Sea.

**Copy seen:** DLC.

27108. VILHJALMAR STEFANSSON. New York. Nomad Publishing Co., 1925. 53 p., plates (ports.) map.

Tribute (by Peary, Rasmusson and others) to Stefansson as explorer, sci-

tist, anthropologist, lecturer, writer and citizen of the world; with biographical sketch and lists of publications about and by Stefansson. **Copy seen:** CaMAI.

**27109. VILKUNA, KUSTAA, 1902-** . Brödet och bakningens historia i Finland. (Folk-Liv, 1945, v. 9, p. 17-56, 7 illus., 6 plates) **Title tr.:** History of bread and baking in Finland.

**Contains** a survey of Finnish and Lappish bread-making. In the Nordic countries, the oldest way of preserving bread was by the baking of leaf-thin cakes on an open fire. Terms for bread and ovens are included. **Copy seen:** InU.

**27110. VILKUNA, KUSTAA, 1902-** . Neues Material zur finnischen Sprach- und Volkskunde. (Suomalainen tiedeakatemia (Academia scientiarum fennicae) Sitzungsberichte, 1939, pub. 1943, p. 94-129, maps) **Title tr.:** New material on Finnish linguistics and folklore.

**Contains** a lecture delivered in May 1939 dealing with the activities of the "Collecting Bureau" of the Finnish Academy of Sciences to which any citizen may send information requested, or "observations and notes made on his own initiative". Results of the Bureau's activities are given in the fields of popular poetry, linguistics, compilation of dictionaries, but especially ethnographic-linguistic work. Maps are offered showing the distribution of certain types and terminology of snowshoe and sledge appliances, tools particularly agricultural tools, foods (bread, cheese); and the distribution of certain names and expressions. Northern Finnish and Lappish localities are included. Bibliographical footnotes. **Copy seen:** DLC.

**27111. VILKUNA, KUSTAA.** Über die obugrischen und samojedischen Pfeile und Köcher. (Suomalais-ugrilainen seura. Toimituksia, 1950, v. 98, p. 343-84, illus.) **Title tr.:** On the Ob-Ugrie and Samoyed arrows and quivers.

The Ob-Ugrie (Ostyak?) and Samoyed arrows can be divided in seven main groups: (1) club-like clod-arrows; (2) clod-arrows with points of bone, (3) whistling clod-arrows; (4) arrows with cross-cutting points; (5) fork-arrows with two prongs; (6) arrows with three prongs; and (7) sharp arrows with one prong. Almost all Ob-Ugrie arrows shot from hand-bows have feathers. Two types of quiver occur.

**Copy seen:** DLC; InU.

**27112. VILLIERS, ALAN JOHN, 1903-** . The quest of the schooner *Argus*; a voyage to the Banks and Greenland. Illustrated with the author's photos. London, Hodder and Stoughton [1951] 256 p. illus.

**Contains** an account of a trip on the fishing schooner *Argus* with a Portuguese fishing fleet to the Grand Banks of Newfoundland and Davis Strait in Mar.-Sept. 1950. The trans-Atlantic voyage, life aboard ship, cod-fishing activities on the Banks and in West Greenland waters are described in detail, with character sketches of the participants. The present condition of Portuguese fisheries and the fishing fleet is discussed, and data added in the appendix, on ships, catch, wages, etc.

**Copy seen:** DLC.

**27113. VILUKSELA, M.** Routaantumiskysymyksestä rautatiellä sekä toimenpiteistä ratarungon routaantumista vastaan. (Teknillinen aikakauslehti, 1928, v. 18, no. 10, p. 477-85, diags.)

**Title tr.:** On the frost hazard to railroads and measures for preventing damage to the road bed.

**Contains** data on frost heave; its effect on railroads; measures (in detail) to reduce damage: by raising of the embankment and using coarse-grained gravel; by improved (open and sub-) drainage; by introducing insulating materials in conjunction with replacement of frost-susceptible soils.

**Copy seen:** DLC.

**27114. VILUKSELA, M.** Viimeaikaisista toimenpiteistä routimishaittojen vähentämiseksi. (Teknillinen aikakauslehti, Feb. 1940, v. 30, p. 22-25, incl. tables, graphs) **Title tr.:** Recent actions to reduce the frost damages to railroads.

"The swelling of frozen ground causes uneven and dangerous rising of the railroad tracks in the wintertime. Attempts to combat frost action effects consisted of replacing frost-susceptible soils with coarse-grained gravels, supplying ample drainage, and leveling the tracks by placing temporary wooden wedges between the rails and the cross-ties. These measures were ineffective in Finland. The newer methods of control consist of increasing the depth of ballasting to 80 cm. and extending the drainage operations to lower the level of the ground water near the railroad tracks. Sub-drainage is feasible when the size of

the soil grain is 0.06 mm and the velocity of the water ranges from 0.3 m/sec. to 1.0 m/sec. Recommendations for amount of ballasting and depths of drainage pipes are given."—SIPRE. **Coppy seen:** DLC.

**27115. VINNIKOV, I. N.** Bibliografiâ étnograficheskikh i lingvisticheskikh rabot V. G. Bogoraza. (Sovetskââ étnografiâ 1935, no. 4-5, p. 235-41) **Title tr.:** A bibliography of ethnographic and linguistic works of V. G. Bogoraz.

**Contains** a list of 110 books and articles, covering the period from 1896 to 1934.

**Coppy seen:** DLC.

**27116. VINOGRADOV, ALEKSANDR PAVLOVICH, 1895-** . Geokhimiâ redkikh i rasseñnykh khimicheskikh élementov v pochvakh. Moskva, Izd-vo Akademii nauk SSSR, 1950. 277 p., tables. **Title tr.:** The geochemistry of rare and scattered chemical elements in the soils.

This study includes numerous references to arctic regions: tundra soils and soils of the Khibiny (p. 8-12); boron in the soil of Khibiny tundra, etc., (p. 34-37); fluorite in tundra (p. 59-60) bromine, iodine, chlorite in arctic soils (p. 64-73, 78-79); arsenic in tundra and peat soils (p. 95-97). Arctic soils in general or in specific arctic areas are dealt with in all further chapters on: selenium, lithium, strontium, carium, titanium, vanadium and other rare elements. Bibliography (about 500 items).

**Coppy seen:** DLC.

**27117. VINOGRADOV, BORIS STEPANOVICH, 1891-** . Materialy po sistematike i morfologii gryzunov, III. Zametki o palearkticheskikh lemmingakh (r. *Lemmus*). (Akademiâ nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1925, pub. 1926. t. 26, vyp. 1-2, p. 51-73, illus., plates 3-4) **Title tr.:** Materials for the systematics and the morphology of the rodents, III. Remarks on the classification of palaearctic lemmings of the genus *Lemmus*.

**Contains** a critical revision of six species of Eurasian palaearctic lemmings (gen. *Lemmus*) including *L. obensis bungei* n. subsp. from the lower Lena River region, and two tables of craniological and other external measurements; all species, except *L. amurensis*, are native to arctic regions of Europe and Asia.

**Coppy seen:** DLC; MH-Z.

**27118. VINOGRADOV, BORIS STEPANOVICH, 1891-** . Mlekopitaushchie

SSSR. Gryzuny. Leningrad, Izd-vo Akademii nauk, 1933. 87 p., illus., plates 1-8. (In: Akademiâ nauk SSSR. Opredeleteli po faune SSSR. no. 10) **Title tr.:** Mammals of the U.S.S.R. The rodents.

**Contains** instructions on the use of the keys, characteristics of the order Rodentia, and tables for the determination of the families, subfamilies, genera, subgenera and species (138) with descriptions down to subgenera; includes some representatives of the northern region of European and Asiatic Russia.

**Coppy seen:** DA; MH-Z.

**27119. VINOGRADOV, K. A.** K biologii Tikhookeanskogo pinagora v kamchatkikh vodakh. (Priroda, 1950, no. 3, p. 69-70) **Title tr.:** On the biology of *Aptocyclus ventricosus* in Kamchatka waters.

**Contains** the author's observations carried out in Avacha and Kronotskiy Bay, Bering Sea, on the biology of a fish, *Aptocyclus ventricosus*.

**Coppy seen:** DLC; MH.

**27120. VINOGRADOV, K. A.** O nakhozhenii chervel *Nereis virens* v zheludkakh kamchatskoï krasnoï i nekotorykh drugikh ryb. (Priroda, 1950. No. 3, p. 69) **Title tr.:** *Nereis virens* found in the intestine of Kamchatka red salmon and some other fishes.

**Contains** a brief report on the find of a marine annelid worm, *Nereis virens*, in the intestine of the red salmon, *Oncorhynchus nerka* and some other fishes (*Platichthys stellatus*, *Clupea harengus pallasi*) in Avacha Bay, eastern Kamchatka.

**Coppy seen:** DLC; MH.

**26121. VINOGRADOV, K. A.** O sezonnykh izmeneniâkh sostava ikhtiofauny Avachinskoi guby (vost. Kamchatka). (Zoologicheskii zhurnal, 1949. t. 28, vyp. 6, p. 573-74) **Title tr.:** On seasonal fluctuations of the ichthyofauna of the Avacha Bay (eastern Kamchatka).

**Contains** results of the author's observations of 1932-36 on seasonal fluctuations of the ichthyofaunal content of waters of Avacha Bay, eastern Kamchatka, and remarks on its relationship to the permanent and periodical ichthyological population of the Bay.

**Coppy seen:** DLC; MH-Z.

**27122. VINOGRADOV, K. A.** Zoogeograficheskii ocherk pribrezhnoi mor-

skol fauny ūgo-vostochnoi Kamchatki. (Zoologicheskii zhurnal, 1949. t. 28, vyp. 1, p. 99-100) **Title tr.:** Zoogeographical sketch of the littoral marine fauna of southeastern Kamchatka Peninsula.

*Contains* the results of the author's study (1932-36) of the composition of the littoral marine fauna of the Kamchatka coast between Avacha and Kronotskiy Bays, including statistical data on invertebrate animals, fishes and marine mammals. **Copy seen:** DLC; MH-Z.

**VINOGRADOV, L. G.,** see Birshstein, I. A., & L. G. Vinogradov. Novye rakoobraznye Okhotskogo moriā. 1951. No. 20701.

**VINOGRADOV, L. G.,** see also Birshstein, I. A., & L. G. Vinogradov. Presnovodnye Decapoda. 1934. No. 20702.

**27123. VINOGRADOV, M. E.** Kharakter pishchevykh svīazel' nekotorykh vidov ptits s littoral'ū Belogo moriā. (Vsesoiūznoe gidrobiologicheskoe obshchestvo. Trudy, 1950. t. 2, p. 103-118, diags.) **Title tr.:** Food connections of some birds with the littoral zone of the White Sea.

*Contains* results of a study of the biology of the birds' feeding on the White Sea coast, carried out in the summer of 1949 on the Biological Station of Moscow University in Kandalaksha Bay (66°34' N. 33°10' E). 211 stomachs of 20 species of birds were investigated; data are given on the biology of the birds' feeding, analyses of their stomach contents (p. 105-115) and the role of birds in the general economy of the littoral zone (see table 12) is discussed.

**Copy seen:** MH-Z.

**27124. VIRCHOW, RUDOLF.** Schädel eines syphilitischen Eskimo (?) von dem Ost-Cap. (Zeitschrift für Ethnologie, Verhandlungen, 1899. Bd. 31, p. 489) **Title tr.:** Skull of a syphilitic Eskimo (?) from East Cape.

*Contains* description of a skull of a male (without lower jaw) collected by Eugen Wolf on the coast of Bering Strait (Mys Dezhneva) and considered as belonging to an Eskimo of Wunānā tribe. The skull shows typical traces of syphilis.

**Copy seen:** DLC; InU.

**27125. VIRKETIS, M. A.** Zooplankton kak indikator gidrologicheskogo rezhima Karskogo moriā. (Problemy Arktiki, 1944, pub. 1945. No. 1, p. 67-101, tables, sketch maps) **Title tr.:** Zooplankton

as an indicator of hydrological conditions in the Kara Sea.

Author distinguishes and analyses specific groups of zooplankton in Kara Sea: general, Atlantic, arctic sea, Barents Sea, low-salinity and fresh-water. On the basis of his analyses he demonstrates that characteristic features of the zooplankton and its habitat are related to certain hydrological conditions particularly to the currents, and to the source or origin of the water mass in the sea as a whole or in particular sections. He discusses the zooplankton as indicator of these conditions and in ten sketch maps shows distribution of certain faunal species and the currents. Bibliography (24 items). **Copy seen:** DGS.

**27126. VIRTANEN, E. A.** Iakttagelser rörande östlapparnas fångslag (Folk-Liv, 1945, v. 9, p. 57-66) **Title tr.:** Observations regarding the hunting party of the eastern Lapps.

Traditional rules for the hunting teams and for division of the kill. Summary in English. **Copy seen:** InU.

**27127. VISHNEVSKIĬ, BORIS NIKOLAEVICH.** Apatite, the stone of fertility; the birth of a new industry in the Arctic Circle. Moscow, Cooperative Pub. Society of Foreign Workers in the U.S.S.R., 1933. 60 p., illus., map. Translation of *Kamen' plodorodiū Khibiny*.

Soviet achievements in the development and exploitation of the apatite and nepheline deposits of Khibiny tundra, Kola Peninsula; their utilization in agriculture, ceramic, leather and other industries; growth of the city of Khibinogorsk (Kirovsk), as the center of the apatite industry. **Copy seen:** DLC.

**VISSCHER, M. B.,** see Kottke, F. J., & others. Effect hypoxia temp. reg. mice dog & man. 1948. No. 23417.

**27128. VITEL'S, L. A.** Vspomogatel'nyi sinopticheskii metod dolgosrochnogo fonovogo prognoza ledovykh ūvleniĭ na rekakh severa evropeiskoi territorii SSSR. (Meteorologiya i gidrologiya, 1946. vyp. 4, p. 47-55, illus., tables) **Title tr.:** Auxiliary synoptic method of long range forecasting of ice on the rivers of the northern part of European U.S.S.R.

"Forecasts a month, season and even a year ahead are based on synoptic charts, pressure anomalies, etc."—*Meteorological abstracts and bibliography*, Feb. 1951. v. 2, no. 2, p. 154. **Copy seen:** DLC.

**27129. VITTENBURG, PAVEL VLADIMIROVICH, 1884-** . Ob otkrytii verkhne-triasskol fauny na Zemle Vrangeli. (Akademii nauk SSSR. Doklady, 1930. seriia A, no. 11, p. 271-76) **Title tr.:** Discovery of upper-Triassic fauna on Wrangel Island.

Contains a study of geological material collected by G. A. Ushakov during his stay on Wrangel Island (71° N. 180° W.) in 1926-29; with data on geological structure, and fossil remains (*Pseudomonotis ochotica*), and comparison with Triassic faunas of other arctic regions of the U.S.S.R. (western and eastern Siberia, New Siberian Islands and Novaya Zemlya). The author claims that all these Triassic faunas are identical.

**Copy seen:** DLC; MH-Z.

**VITTENBURG, PAVEL VLADIMIROVICH, 1884-** , see also Akademii nauk SSSR. Poleznye iskopaemye i transportnaya problema. 1930. No. 20096.

**VITTENBURG, PAVEL VLADIMIROVICH, 1884-** , see also Rabot, C., & P. Vittenburg. Polarnye strany, 1914-1924. 1924. No. 25327.

**27130. V'ÛNOV, B. F.** Rol' meteoritnykh potokov v usloviakh vozniknoveniia magnitnykh bur' i polarnykh sifanii. (Akademii nauk SSSR. Izvestiia. Seriiia geograficheskai i geofizicheskai, 1945. t. 9, no. 4, p. 294-315, diagrs.) **Title tr.:** The role of meteoritic fluxes under the conditions of magnetic storms and polar aurora.

Contains the results of the study of relationship between the rising of magnetic storms and aurora borealis and meteoritic showers, based on analysis of data (mostly from Kandalaksha, Kola Peninsula), on frequency of these phenomena. Summary in English.

**Copy seen:** MH-Z.

**27131. V'ÛSHKOV, B. P.** Ob otnositel'nom vozraste isheevskoi i severodvinskoi faun nazemnykh pozvonochnykh permi SSSR. (Akademii nauk SSSR. Doklady, 1952. t. 83, no. 6, p. 897-900) **Title tr.:** On the relative age of the Ishevo and Northern Dvina fauna of land vertebrates from the Permian of the U.S.S.R.

Contains an account of the fossil land vertebrates found in some localities on the Northern Dvina (Arkhangelskaya Oblast') and those of Ishevo (Tatar A.S.S.R.). Earlier studies are noted. Similarities and dissimilarities in the fossil

components of the two areas, evolutionary trends in some forms, etc., are discussed. It is concluded that the faunas of the two areas represent distinct evolutionary stages, separated by a time interval of as yet undetermined length. Bibliography (15 items). **Copy seen:** DLC.

**27132. VIZE, VLADIMIR ÎUL'EVICH, 1886-** . Drelf buev v arkticheskikh morakh. (Problemy Arktiki, 1944, pub. 1945, no. 2, p. 122, tables) **Title tr.:** The drift of buoys in arctic seas.

List of six buoys dropped and found by Russian vessels, 1933-43 at various points in arctic seas, supplementing the author's *Opyt primeneniia drelfuiushchikh buev dlia izucheniia arkticheskikh morei*, published in *Problemy Arktiki*, 1943, no. 1 (copy not seen). **Copy seen:** DGS.

**27133. VIZE, VLADIMIR ÎUL'EVICH, 1886-** . Istoriia issledovaniia sovetskoi Arktiki: Barentsovo i Karskoe moria. Arkhangel'sk, OGIZ RSFSR Severnoe izd-vo, 1932. 211 p., illus., fold. map. **Title tr.:** History of exploration of the Soviet Arctic: Barents Sea and Kara Sea.

Chapters on: ancient times; the first Russians in the far North; first expeditionary voyages to Barents Sea; Russian voyages in the 16th, 17th and 18th centuries; exploration of Novaya Zemlya; discovery of Franz Josef Land; Barents Sea, ice-breakers in the Arctic; Kara Sea; exploration of Franz Josef Land; the Northeast Passage; the discovery of Severnaya Zemlya; arctic exploration from the air.

**Copy seen:** DLC.

**27134. VIZE, VLADIMIR ÎUL'EVICH, 1886-** . K izucheniui parallakticheskikh atmosferynykh prilivov. (Problemy Arktiki, 1944, pub. 1945, no. 2, p. 100-107, diagrs., fold. map) **Title tr.:** On the investigations of the parallactic atmospheric tides.

"After having discussed the problem of the relation between lunar months and atmospheric tides in the Arctic region (*ibid.*, (1):33-35, 1944) the author studies the phenomenon in other latitudes; a comparative analysis of the data leads him to the conclusion that parallactic tides exist in the atmosphere and that they are more pronounced in high latitudes."—*Meteorological abstracts and bibliography*, Nov. 1951. v. 2, no. 11, p. 899.

**Copy seen:** DGS.

**27135. VIZE, VLADIMIR ÎUL'EVICH, 1886-** . K voprosu o dolgosrochnom

predskazanii kolichestva osadkov v aprele i mae v ūzhno-tsentral'nom i vostochnom ralonakh Evropelskoj Rossii. (Leningrad. Glavnaia geofizicheskaiia observatoriia. Geofizicheskii sbornik, 1925, t. 4, vyp. 2, p. 87-98, illus.) **Title tr.:** On the long range forecasts of the amount of precipitation in the central and eastern parts of Russia in April and May.

"A relation is found between Barents Sea ice and rainfall in southeastern Russia in April and May of following year and pressure over Norwegian Sea in Jan. and Feb. There is also a correlation of -52 with sunspots."—*Meteorological abstracts and bibliography*, Feb. 1951. v. 2, no. 2, p. 133 Summary in German, p. 98.

**Copy seen:** DLC.

**27136. VIZE, VLADIMIR IŪLEVICĖ, 1886-** Parallakticheskie atmosferye prilivy v Arktike. (Problemy Arktiki, 1944, pub. 1945, no. 1, p. 33-55, 13 illus., 12 tables) **Title tr.:** Parallactic atmosphere tides in the Arctic.

"A study of the relation between lunar months and atmospheric tides in the arctic region, based on observations of baric waves in Tiksi Bay and on Wrangel Island."—*Meteorological abstracts and bibliography*, Nov. 1951. v. 2, no. 11, p. 899. On the basis of G. C. Simpson's work on the British Antarctic Expedition 1910-1913 (published in its *Meteorology*, v. 1, Calcutta, 1919), Vize analyses barometric data from Wrangel Island, 1926-36, Tikhaya Bay 1930-39, Tiksi Bay and Dikson Island, and traces the influence of the moon on fluctuation of atmospheric pressure waves of a long period (14 days). Bibliography (5 items).

**Copy seen:** DGS.

**27137. VIZE, VLADIMIR IŪLEVICĖ, 1886-** Russkie poliarnye morekhody iz promyshlennykh, torgovykh i sluzhilykh lûdel XVII-XIX vv; biograficheskii slovar'. Moskva-Leningrad, Izd-vo Glavsevmorputi, 1948. 72 p. illus. map **Title tr.:** Russian polar seafarers from among the hunters, traders and government officials of the 17th-19th century; a biographical dictionary.

Contains notes on 96 voyagers and explorers of northern regions, arranged chronologically by their principal exploits. For each man is given (if known) date and place of birth and death, profession, biographical data and accounts of his voyage(s), discoveries and their significance. An alphabetical index

of the persons listed, is appended. Bibliography (100 items).

**Copy seen:** DLC.

**27138. VLADIMIROV, B.** Zo poliarnym krugom. (Sovetskii soûz, Mar. 1952, no. 3, p. 32-33, illus. (incl. col.) sketch map) **Title tr.:** Beyond the Arctic Circle.

Contains a popular pictorial presentation (with brief descriptive text) of the work of the plant experiment station Khibiny, 170 km. from Murmansk, and the achievements of the 62,500-acre state farm "Industriia," in cereal and vegetable production, dairy, apiary, fruit growing, etc. The limits of agriculture are claimed to have been pushed 400 km. north in the European, and 1,000 km. north in the Asiatic Soviets.

**Copy seen:** DLC.

**27139. VLADIMIROV, O., and others.** Geothermal measurements in Monche-Tundra. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1939. nouv. ser., v. 23, no. 4, p. 355-58, illus., table) **Other authors:** S. Krasovskii, and A. Semenov.

Analysis of temperature data from bore holes, and discussion of peculiar local characteristics.

**Copy seen:** DLC.

**VLADIMIRŤSOV, B. IĀ.,** see Castrén, M. A. Pamiat' M. A. Kastrena. 1927. No. 21135.

**VLASENKO, A. V.,** see Samoilovich, R. L., & others. Geologiia Arktiki. 1937. No. 25812.

**27140. VLASOV, G. M., and IŪ. F. CHEMEKOV.** Osnovnye etapy formirovaniia rel'efa poluostrova Kamchatki v chetvertichnyi period i ego geomorfologicheskoe ralonirovanie. (Vsesoiuznoe geograficheskoe obshchestvo. Izvestiia, 1950. t. 82, no. 3, p. 262-72, map) **Title tr.:** Main stages in the formation during the Quaternary of the relief of Kamchatka Peninsula and its geomorphological divisions.

A brief account of the geological history of the area so far as its present relief is affected, is followed by an analysis of its past climate and glaciation. On the basis of this study, the author divides the country into seven geomorphological zones. An outline and brief description of each zone is given. Bibliography (15 items).

**Copy seen:** DLC.

**27141. VLODAVETS, V. I.** Geologicheskie issledovaniia v ralone r. Umby na

Kol'skom poluostrove v 1925 godu. (Akademii nauk SSSR. Doklady, Seriya A, 1930, no. 12, p. 310-14, map) **Title tr.:** Geological research during 1925 in the Umba River district, Kola Peninsula.

**Copy seen:** DLC.

**27142. VLODAVETS, V. I.** O deiatel'nosti Kamchatskoi vulkanologicheskoi stanitsii. (Akademii nauk SSSR. Izvestiia. Seriya geologicheskai, 1945, no. 1, p. 40-49) **Title tr.:** On the activities of the Kamchatka Vulcanological Station.

"The station was established in 1935. It is situated at the junction of the Kuril-Kamchatka and Aleutian volcanic and tectonic arcs, in the vicinity of the Klyuchev volcano [Sopka Klyuchevskaya 56°31' N. 162°32' E.]. A summary of the investigations of the staff is given in the paper."—Geological Society of America. *Bibliography and index of geology*, 1945-46, v. 11, p. 343.

**Copy seen:** DLC; MH.

**27143. VLODAVETS, V. I.** O dvukh novykh mestorozhdeniakh shchelochnykh porod na Kol'skom poluostrove. (Akademii nauk SSSR. Doklady, seriya A, 1928, no. 18-19, p. 361-66, tables) **Title tr.:** On two new beds of alkaline rocks on the Kola Peninsula.

Mineralogical and chemical analyses of the beds. List of alkaline rock formations on the Kola Peninsula.

**Copy seen:** DLC.

**27144. VLODAVETS, V. I.** Rezul'taty issledovaniia apatitovykh mestorozhdenii v Khibinskikh tundrach va 1928 godu. (Akademii nauk SSSR. Doklady, seriya A, 1929, no. 5, p. 109-114, tables) **Title tr.:** Results on the study of apatite deposits in the Khibiny tundra during 1928.

Results indicate that these deposits, with regard to both their composition and extent, are unique in the world, sufficient to furnish the northwestern part of the U.S.S.R. with raw superphosphate for a "great number of years."

**Copy seen:** DLC.

**27145. VOBLOV, I. K.** Eskimoskie prazdniki. (Akademii nauk SSSR. Institut etnografii. Trudy, 1952. novaii seriya t. 18, Sibirskii etnograficheskii sbornik, p. 320-34) **Title tr.:** Eskimos' feasts.

Seven feasts and ceremonies in the villages of Chaplino and Sereneki on Chukotsk Peninsula in 1934-36, are described by the author with the help of

educated natives. Changes in mode of life under Soviet reforms are noted.

**Copy seen:** DLC.

**27146. VODOP'IANOV, MIKHAIL VASIL'EVICH, 1899-** . Polet na zemliu Franca Iosifa; pod redaktsiei nach. Polarnoi aviatssii Glavsevmorputi, gerofa Sovetskogo Soiuza M. I. Sheveleva. Moskva, Leningrad. ONTI, Glavnaia redaktsiia nauchno-popul'arnoi i iunoshekskoii literatury, 1937. 178, [2] p., front., (port.) illus. **Title tr.:** The flight to Franz Josef Land; under the editorship of Leader of Arctic aviation of Main Administration of the Northern Sea Route, M. I. Shevelev, hero of the Soviet Union.

Published by the main editorial office for popular scientific and young people's literature, this book is "a first attempt to give a full description of the air expedition of 1936" to Tikhaya Bukhta (Calm Bay), Hooker Island in Franz Josef Land. The author, leader of the expedition in the N-128, treats as his main topics: value of aviation for the polar regions and the author's earlier exploits; personnel of the expedition, types of machines, equipment, route; detailed account of the flight; description, largely meteorological, of Tikhaya Bukhta and the polar station there; return flight.

**Copy seen:** DLC.

**27147. VODOP'IANOV, MIKHAIL VASIL'EVICH, 1899-** . Polius; risunki A. Bubnova. Moskva, Izd-vo detskoi lit-ry, 1939. 205 p., illus. **Title tr.:** The Pole; with drawings by A. Bubnova.

A book written for children and youth about the background, plans, preparations and the flight of the author as part of the North Pole Expedition 1937.

**Copy seen:** DLC.

**27148. VODOP'IANOV, MIKHAIL VASIL'EVICH, 1899-** . Polius. Risunki K. Artsulova. Moskva, Gos. izd-vo detskoi lit-ry, 1951. **Title tr.:** The Pole; with illustrations by K. Artsulov.

Contains a personal account for young readers of the author's first arctic flights, his flight to Cape Shmidt (68°55' N. 179°24' E.), Franz Josef Land, the North Pole on the NO-170, etc. Includes extensive descriptions of the areas crossed and visited and histories of their discovery and exploration.

**Copy seen:** DLC.

**27149. VODOP'IANOV, MIKHAIL VASIL'EVICH, 1899-** . Rasskaz o svoel

zhizni. Moskva, Sovetskii pisatel', 1935. 185 p. illus. **Title tr.:** The story of my life.

*Contains* a popular somewhat anecdotal autobiography of the noted Russian flier, telling of his birthplace, childhood, schooling, friends of his youth, first seeing of an automobile, first movie; his first marriage (arranged by parents) and subsequent divorce; the Revolution; his first seeing of an airplane, and first drive in a car; Moscow and first flights fighting locusts; training school; flights over Siberia, and Sakhalin; serving as flyer for *Pravda*; accidents; flying the Moscow-Khabarovsk route; rescue of the shipwrecked *Chelüskin* party from the ice-floe 1934; thoughts for the future.

**Copy seen:** DLC.

**VOEGELIN, C. F.,** *see* Sanders, I. T. Societies around the world. 1952. No. 25824.

**27150. VOGELER, ERICH.** Lieder der Eskimos. Kobenhagen and Leipzig, Alex Juncker A. G., [1930]. 62 p., illus. **Title tr.:** Eskimo songs.

*Contains* German translation of 44 (mainly Greenlandic) songs, all taken from printed sources, a short introduction and some occasional explanatory notes.

**Copy seen:** DLC.

**27151. VOGT, JOHAN HERMAN LIE, 1858-1934.** Dunderlandsdalens jernmalmsfelt: i Ranen, Nordlands amt, lidt sødenfor polarkredsen; Praktisk geologiske undersøgelser af Nordlands amt 2. Christiania, H. Aschehoug & Co., 1894. 103, 3 p. (illus.) plates 1-2. (Norges geologiske undersøgelse, no. 15) **Title tr.:** Iron ores in Dunderland valley: in Ranen, Nordland province, a little south of the Arctic Circle; practical geological investigation of Nordland province, 2.

*Contains* a survey of the geological structure and history of the region; notes on rock formations; estimate of iron ore resources, various ore deposits (from 65°50' to 67°25' N.) chemical analyses, petrological content and connection with adjoining regions; a general survey; importance of iron deposits in the Norwegian economy and a comparison with those of other countries. Summary in German, p. 88-103.

**Copy seen:** MH-Z.

**27152. VOGT, JOHAN HERMAN LIE, 1858-1934.** Nikkelforekomster og

nikkelproduktion, 2. Jernnikkelkis fra Beiern i Nordland. (Norges geologiske undersøgelse, 1892, nr. 7, p. 11-24, 72-74, illus.) **Title tr.:** Nickel occurrence and nickel production, 2. Iron nickel from Beiern, Nordland.

*Contains* a description of a very rare nickel ore, a combination of iron and nickel, so-called "jernnikkelkis" (Eisennickelkies) found in Beiern (67° N.) northern Norway; with chemical analyses of the ore and data on the structure of mineral and the rock formations (gabbro) comprising it. **Copy seen:** MH-Z.

**27153. VOGT, JOHAN HERMAN LIE, 1858-1934.** Norsk marmor. Kristiania, A. W. Brøgger, 1897. vii, 364 p. illus., maps 1-6. (Norges geologiske undersøgelse, no. 22) **Title tr.:** Norwegian marble.

*Contains* data on the geology of marble (p. 4-18); its most important characteristics with special reference to Norwegian marbles (p. 18-158); Norwegian marble resources (p. 159-303). A survey of the marble industry throughout the world is added, with remarks on its development in Norway (p. 304-333). Includes description of the rich marble deposits in Nordland: Ofoten-Steigen-Salten-Ranen-Vefsen-Velfjorden (p. 185-265), and in Troms province (p. 265-68). Summary in German, p. 334-64.

**Copy seen:** MH-Z

**27154. VOGT, JOHAN HERMAN LIE, 1858-1934.** Om Andøens jurafelt, navnlig om landets langsomme nedsynker under jurastiden og den senere hævnning samt gravforkastning. Kristiania, A. W. Brøgger, 1905. 63 p. illus., 2 plates. (Norges geologiske undersøgelse, no. 5: Aarboeg for 1905) **Title tr.:** On the Jurassic deposits on Andø, with data on the region's submergence during the Jurassic period and its subsequent slow uplift.

*Contains* a study of Jurassic formations on Andø, an island in the Lofoten-Vesteraalen group, 69°10' N., with data on the geological structure and on covering layers of Quaternary deposits. The author comes to conclusion that the northern part of Norway was under water in the Jurassic period; this process of lowering and later uplift probably affected not only northern Norway but Swedish and Russian Lapland, Spitsbergen and Franz Josef Land. Summary in German. **Copy seen:** MH-Z.

**27155. VOGT, JOHAN HERMAN LIE, 1858-1934, editor.** Søndre Helgeland; praktiskgeologiske undersøgelser af Nordlands amt, 3. Kristiania, H. Aschehoug & Co., 1900. 178 p. illus., map. (Norges geologiske undersøgelse, no. 29) **Title tr.:** Southern Helgeland; practical geological investigation of Nordland province, 3.

**Contents tr:** VOGT, J. H. L. Morphology of southern Helgeland, p. 1-61.

**REKSTAD, J. B., and J. H. L. VOGT.** Quaternary geology of southern Helgeland, p. 62-112.

**VOGT, J. H. L.** Silver ores of Svenningdalen, p. 113-49.

Each paper is listed in this Bibliography under its author's name. Supplement, p. 150-57, and summary in German, p. 158-78. **Copy seen:** MH-Z.

**27156. VOGT, JOHAN HERMAN LIE, 1858-1934.** Søndre Helgelands morfologi. (In his: Søndre Helgeland, 1900, p. 1-61, 160-70, illus.) **Title tr.:** Morphology of southern Helgeland.

**Contains** a geomorphological study of the southern Helgeland district of Nordland province (65°-66°30' N.), in northern Norway, with description of four morphological subdivisions of the region (coastal plains, fiord zone, plateau and high mountains), characteristics of each zone and data on various factors influencing the morphological structure of the region. Summary in German, p. 160-70. **Copy seen:** MH-Z.

**27157. VOGT, JOHAN HERMAN LIE, 1858-1934.** Svenningdalens sølvertsgange. (In his: Søndre Helgeland, 1900, p. 113-49, 176-78, illus., map) **Title tr.:** Silver ores of Svenningdalen.

**Contains** data on the geology of the Svenningdalen district in Vefsen, Nordland province, description of rocks containing silver ore and some other metaliferous veins; an estimate of resources and production and a comparison with some other silver-containing regions (Kongsberg). Summary in German, p. 176-78. **Copy seen:** MH-Z.

**VOGT, JOHAN HERMAN LIE, 1858-1934, see also Rekstad, J. B., & J. H. L. VOGT.** Søndre Helgelands kvartaergeol. 1900. No. 25442.

**27158. VOIGTLÄNDER, O.** Drei Jahre in Alaska; nach eigenen Erlebnissen von O. Voigtländer, erzählt von L. Sommer. Berlin, C. Hause [1900-?] 30 p., illus.

(incl. map). (Hauses Volks- und Jugend-Bibliothek. [Hft. 1]) **Title tr.:** Three years in Alaska; experiences of O. Voigtländer, related by L. Sommer.

Author's travels and adventures in the gold fields 1902-1905, written in a popular style for youth and general readers.

**Copy seen:** DLC.

**27159. VOINOVA, E. V.** K stratigrafi permskikh otlozhenii basseina reki Bol'shoi Syni-ni Pechorskii krai. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1935. ser. 2, chast' 64, p. 482-510, diagrs.) **Title tr.:** On the stratigraphy of the Permian deposits of the Bol'shaya Syni-yu River basin, Pechora region.

Results of the author's investigations in 1932, and of preliminary research in 1926 by A. A. Chernov, whose unpublished manuscript was available to the author. Voynova distinguishes six series, (1) the Artinskian stage (lower Permian), (2) lower Martushova series, (3) Kossus series (upper Permian), (4) coal-bearing series, (5) variegated series, and (6) the brown series which is the most widely developed in the basin of the Bol'shaya Syni-yu, left tributary of the Usa (a right tributary of the Pechora) at ca. 66° N. 58° E. Bibliography (7 items). Summary in English. **Copy seen:** DGS.

**27160. VOĬNOVSKIĬ-KRIGER, K. G.** A contribution to the character of the lower Permian deposits of the basin of the Shchugor River (tributary of the Pechora River). (Akademiia nauk SSSR. Comptes rendus (Doklady), 1946. nouv. ser., v. 52, no. 3, p. 243-45)

List of new faunistic material in lower Permian deposits collected by the author in 1935 and determined by G. N. Fredericks. **Copy seen:** DLC.

**27161. VOIONMAA, VÄINÖ.** Die Lappen von Uusimaa. (Suomalainen tiedeakatemia, Helsingfors. Sitzungsberichte, 1943. p. 115-36, illus., diagrs.) **Title tr.:** The Lapps of Uusimaa.

Author deals with the question of the Lapps as early inhabitants of Finland and the area they held before being expelled by the Finns. The study is based on etymological considerations especially on the distribution of place names beginning with "Lappi." **Copy seen:** DLC.

**27162. VOIPIO, PAAVO.** On survival during the cycles. (Suomen riista, 1950, no. 5, p. 162-64)

Study based on the "remarkable resistance which species periodically fluctuating in numbers (so-called cyclic species) show in recovering from violent changes recurring in the environmental conditions;" data are offered on the migration of cyclic species, and rational protection of cyclic and non-cyclic species of animals, etc. is discussed. This study is of interest in relation to the various birds and mammals (e. g. the lemming) fluctuating periodically in northern regions.

**Copy seen:** DLC.

**27163. VOL'FKOVICH, S. I.** Isolation of rare earths from apatite in the course of its acid treatment. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1939. nouv. ser., v. 25, no. 2, p. 23-25)

Report of a method for the isolation of rare earths from the Khibiny apatite rocks.

**Copy seen:** DLC.

**27164. VOLKOVA, M. I., and B. N. MELENTEV.** Chemical composition of the Khibiny apatites. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1939. nouv. ser., v. 25, no. 2, p. 23-25, table)

Detailed chemical analysis of apatites reported and conclusion reached that chemically the apatites of the "great arc" present a uniform whole; and that geologically isolated deposits (Poachvumehor and two others) are different due to higher content of rare earths and strontium.

**Copy seen:** DLC.

**27165. VOLKOVA, M. M.** Parazitofauna ryb basseina r. Obi. (Leningrad-Universitet. Uchenye zapiski, 1941. no. 74, seria biol. nauk. vyp. 18, p. 20-36)

**Title tr.:** Parasites of the fishes of Ob' River basin.

Contains a study of the parasites of nine species of Ob' River fish, including some from the lower course (Salekhard), with a list of 54 various parasites (16 protozoans, 17 trematodes, etc.) Summary in German.

**Copy seen:** MH-Z.

**VOLLOSOVICH, K. A.,** see Pfizenmayer, E. W. Siberian man & mammoth. 1939. No. 25081.

**27166. VOLOGDIN, ALEKSANDR GRIGOREVICH, 1896-** . Novyi Turukhanskii neftenosnyi raion. (Sovetskaiia geologiya, 1938, no. 12, p. 3-13)

**Title tr.:** The new Turukhansk oil-bearing region.

Summarizing the geomorphological,

stratigraphic and mineralogical indications of probable oil-bearing substrata in the Turukhansk region, the author, who prospected in 1938, urges a start in exploratory well-drilling in certain localities along the banks of Nizhnyaya Tunguska and Sukhaya Tunguska Rivers.

**Bibliography.** **Copy seen:** DLC.

**27167. VOLOGDIN, ALEKSANDR GRIGOREVICH, 1896-** . O kembrii Urala. (Akademiia nauk SSSR. Izvestiia. Seriiu geologicheskaiia, 1937, no. 4, p. 681-92)

**Title tr.:** On the Cambrian of the Urals.

Contains a study of Cambrian deposits which includes the Northern Ural, prepared 50 years after A. P. Karpinski's classic work *Ocherk fiziko-geograficheskikh uslovii Ev. Rossii*, 1887, q. v., Data obtained since 1931 are summarized and recent data correlated; the author compares the Cambrian deposits of Northern Ural with those of Novaya Zemlya and Vaygach. In view of the peculiar lithological composition of the Cambrian in different parts of the Uralian folded zone, author thinks that its arctic and southern parts had common development with the Salaiskiy Kryazh in Western Siberia, and that the Middle and (partly) Northern Urals are similar to the Cambrian of the Siberian Platform. Summary in English.

**Copy seen:** DLC; MH.

**27168. VOLOGDIN, ALEKSANDR GRIGOREVICH, 1896-** . On the ancient calcareous algae of the Timan Ridge. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1944. nouv. ser., v. 45, no. 5, p. 205)

"Describes poorly preserved algal remains from the Timan Ridge [about 66° N. 52° E.] U.S.S.R., and considers that they show the lower Paleozoic age of the rocks."—Geological Society of America, *Bibliography and index of geology*, 1945-46. v. 11, p. 344.

**Copy seen:** DLC.

**27169. VOLOSOVICH, K. A.** O geologicheskoi stroeniei Novosibirskikh ostrovov i zemli Benneta. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad, Zapiski, 1935. ser. 2, chast' 43, Protokoly zasedanii, p. 34-37)

**Title tr.:** On the geological structure of the New Siberian Islands and Bennet Land.

Contains data on geological structure of Kotel'nyi Island of the New Siberian Islands, some other islands of the same group and Bennet Island, with some dis-

cussion of a former connection of these islands with Asiatic mainland.

**Copy seen:** MH-Z.

**27170. VOLOTOVSKAÏA, N. A.** Ksenolity nefelinovykh sienitov i shehelochnykh sienitov v massivnom khibinite severnoi chasti Khibinskogo massiva. (Vserossiiskoe mineralogicheskoe obshchestvo, Leningrad. Zapiski, 1939. ser. 2, chast' 68, vyp. 1, p. 45-68, illus., plate) **Title tr.:** Xenoliths of nepheline syenites and alkaline syenites within the massive khibinite of the northern part of the Khibiny massif.

Contains a description of nepheline syenites and alkaline syenites of the most ancient intrusive complex in the Khibiny massif of the Kola Peninsula; these are divided by the author into four groups: (1) large-grained nepheline syenites; (2) medium-grained nepheline syenites; (3) fine-grained, aegirite-nepheline syenites and (4) nepheline porphyries. Summary in English.

**Copy seen:** MH.

**27171. VOLOTOVSKAÏA, N. A.** Palingenez i gibridizatsiia v kontakte dalki gabbro-norita s iuzhnogo berega Kol'skogo poluoostrova. (Akademiia nauk SSSR. Izvestiia. Seriiu geologicheskaiu, 1940, no. 3, p. 102-113, illus., plate) **Title tr.:** Palingenesis and hybridism in the contact of a gabbro-norite dyke on the south shore of the Kola Peninsula.

Contains a description of a dyke of olivine gabbro-norite near the mouth of P'yali'sa River (about 66°11' N. 39°32' E.) on the south shore of the Kola Peninsula, revealing the formation of the intermediate rocks on the contact with the inclosing oligoclase gneiss granite, and the author's conclusions on this phenomenon. Summary in English.

**Copy seen:** DLC; MH.

**27172. VOL'SKIÏ, Z. D.** Vsiia Sibir'; spravochnaia kniga po vsiem ostrasl'am kul'turnoi i torgovo-promyshlennoi zhizni Sibiri. Izd. 1. S.-Peterburg, Izd-vo i sklad izd. pri Pervom S.-Peterburgskom adresnom diel'e, 1908. xiv, 582 p., illus. **Title tr.:** All of Siberia. A reference book on all branches of the cultural and commercial industrial life of Siberia.

Includes northern regions and Sakhalin, and presents information on: geography, administration, the religious, cultural and educational institutions, courts, press, public health, agriculture, mining and industry, trade and communications, cities, etc.

**Copy seen:** DLC.

**27173. VOROB'EV, D. P.** Gornotaezhnaia stantsiia Dal'nevostochnogo filiala Akademii nauk SSSR i zapovednik Ussuriiskoi flory i fauny. (Akademiia nauk SSSR. Dal'nevostochnyi filial. Vladivostok. Gornotaezhnaia stantsiia. Trudy, 1936. t. 1, p. 9-13) **Title tr.:** The Mountain-Taiga Station of the Far-Eastern branch of the Academy of Sciences of the U.S.S.R. and the Ussuri flora and fauna reservation.

Initially an institution for the study of the geography and flora of the region, the station is to develop in two directions; as a center of study of (1) the Ussuri taiga as a "productive force" and (2) the utilization of the mountain slopes of the taiga.

**Copy seen:** DLC.

**27174. VOROB'EVA, K. E.** Materialy dlia kharakteristiki proleta ptits v okrestnostakh g. Iakutsk, po nabludeniiam 1927-28 gg. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1931. t. 32, vyp. 2, p. 157-210, illus., diagrs.) **Title tr.:** Contribution on characteristics of the passage of birds in the Yakutsk region, according to observations in 1927-28.

Contains the results of phenological observations on the passage of migratory birds, carried out in 1927-28 on the islands of the Lena River near Yakutsk in eastern Siberia; with a diary of observations, summaries, diagrams, tabulated data and a systematic list of 122 species with phenological and ecological notes.

**Copy seen:** DLC; MH-Z.

**27175. VOROB'EVA, OL'GA ANISIMOVNA.** K voprosu o genezise loparitovykh mestorozhdenii Lovozerskogo massiva. (Akademiia nauk SSSR. Izvestiia. Seriiu geologicheskaiu, 1938, no. 3, p. 435-48, illus., plate) **Title tr.:** On the genesis of the loparite deposits of the Lovozero intrusive.

Contains a description of seven types of loparite deposits in Lovozero alkaline intrusive, Kola Peninsula, and a discussion of the role of volatiles (H<sub>2</sub>O, Cl, F, P, etc.) and strong cations (Na and Ca) in loparite genesis. Summary in English.

**Copy seen:** DLC; MH.

**VOROB'EVA, OL'GA ANISIMOVNA.** see also Akademiia nauk SSSR. Khibinskaia gornaia stantsiia. Khibinskaia gornaia stantsiia. 1934. No. 20100.

**27176. VORONETS, I. S.** O prisutstvii verkhnei iury na Kamchatke. (Aka-

demii nauk SSSR. Izvestiia. Serii geologicheskai, 1941, no. 2, p. 102-103) **Title tr.:** Evidence of the Upper Jurassic in Kamchatka.

*Contains a report on Upper Jurassic cephalopods, the first discovery of this kind in Kamchatka. These fossils were collected by M. Markin (chief of one of the Oil and Geological Prospecting Institute of Leningrad parties) in 1939, and identified by the author. A brief stratigraphic and geological characterization of the areas studied is given. Bibliography (5 items). Summary in English.*

**Copy seen:** DLC.

**27177. VORONIKHIN, NIKOLAI NIKOLAEVICH, 1882- .** *Edogonievye vodorosli Evropeiskogo Severa SSSR. (Akademii nauk SSSR. Botanicheskii institut. Trudy, ser. 2, Sporovye rasteniia, 1951. vyp. 7, p. 415-80, illus., plates 1-7)* **Title tr.:** Oedogoniaceous Algae of the European North of the U.S.S.R.

*Contains a study of fresh-water coniferoid Algae of the fam. Oedogoniaceae, inhabiting the continental basins of northern European U.S.S.R. A morphological sketch, keys to the genera, species and varieties is given, followed by descriptions of 29 species of Oedogonium and 14 of Bulbochaete, with synonyms, literature references and data on habitat and distribution. A bibliography (106 items) and index of Latin names are added.*

**Copy seen:** DLC.

**27178. VORONIKHIN, NIKOLAI NIKOLAEVICH, 1882- .** *K flore presnovodnykh vodoroslei Anadyr'skogo raiona. (Akademii nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1937. no. 22, p. 105-116)* **Title tr.:** Contribution to the fresh-water algae flora of the Anadyr region.

*Contains a systematic list of 82 species of fresh-water algae, collected by V. B. Sochava in the basin of the Anadyr River in Chukotsk Peninsula in 1929, with dimensions, data on habitat and a review of the groups of algae according to habitat. Summary in English.*

**Copy seen:** DLC; MH-A.

**27179. VORONIKHIN, NIKOLAI NIKOLAEVICH, 1882- .** *Obzor algologicheskikh issledovanii Dal'nevostochnogo kraia. (Akademii nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1936. no. 21, p. 49-61)* **Title tr.:** A review of algological researches in the Far Eastern Region.

*Contains a summary of investigations of fresh-water algae carried out in the Far Eastern Region, including data on the Kamchatka Peninsula (microflora of the hot springs) and a bibliography (23 items).*

**Copy seen:** DLC.

**27180. VORONIKHIN, NIKOLAI NIKOLAEVICH, 1882- .** *Rastitel'nyi mir okeana. Moskva-Leningrad, izd-vo Akademii nauk SSSR, 1945. 56 p., illus.* **Title tr.:** The plant world of the ocean.

*Contains an account of the plankton (including bacteria), its biological and economic significance; the role of bacteria in the chemistry of the sea; history of plankton research; seaweeds and their economic value. Several sections deal with the conditions in the Russian arctic seas (p. 16-18, 20, 45-48).*

**Copy seen:** DLC.

**27181. VORONKOV, N. V., d. 1920.** *Plankton vodoemov poluostrova Yamala. Kolovratki i obshechaia kharakteristika planktona. (Akademii nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1911. t. 16, no. 2, p. 180-214, illus., maps 1-3)* **Title tr.:** On the plankton of basins on Yamal Peninsula. Rotifers and general characteristics of the plankton.

*Contains a study of the plankton of the water-basins (lakes, rivers, ponds, pools, etc.) on Yamal Peninsula in western Siberia, based on the material brought home by the expedition of B. M. Zhitkov in 1908; with brief descriptions of the basins and tabular presentation of the distribution of Rotatoria species in them; comparison with plankton of other regions; general data on plankton of lakes and rivers (Rotatoria species, genera of Copepoda, Cladocera, Insecta, Protozoa, Algae, etc.); and a systematic list of 55 plankton species.*

**Copy seen:** DLC; MH-Z.

**27182. VORONKOV, P. P., and others.** *Osnovnye cherty gidrokhimicheskogo rezhima pribrezhnoi zony Barentsova moria v raione tsentral'nogo Murmana. (Akademii nauk SSSR. Murmanskai biologicheskai stantsiia. Dal'niye Zelenitsy. Trudy, 1948. t. 1, p. 39-101, 25 diagrs. and sketch map)* **Title tr.:** Basic characteristics of the hydrochemical regime of the coastal zone of Barents Sea in the central Murman region. *Other authors:* N. S. Uralov and E. N. Chernovskai.

*Contains program and methods of study; brief outline of the area; data on*

hydrology: vertical and horizontal temperature distribution, annual fluctuation of temperature, salinity at various depths and in various areas and its annual fluctuations; hydrochemical studies: oxygen content, phosphorus, nitrogen, etc.; general observations on photosynthesis and growth. Bibliography (10 items). **Copy seen:** DLC.

**VORONOV, K. I.**, *see* Dal'ne-Vostochnyy Kray. Upravlenie rybolovstva i okhoty na morskogo zver'ia. Rybnye i pushnye bogatstva Dal'nego Vost. 1923. No. 21351.

**27183. VORONOV, P. A.** Morskije sooruzheniia iz betona i zhelezobetona. Moskva, Mashstrolizdat, 1951. 404 p., illus., diags., tables. **Title tr.:** Marine installations from concrete and reinforced concrete.

A highly specialized technical-scientific monograph with sections on: work conditions, materials, requirements of concrete; types of construction (docks, locks, shipways, etc.). Chapter 8, pt. 12 (p. 366-75) deals with the peculiarities of concrete and iron-concrete work under cold-weather conditions, viz. the preparation, transport and storage of materials; construction methods under low temperature conditions, including application of heat in various forms; "thermos", steaming, "hothouse" electrical methods, etc.; arrangement of massive works, etc. Bibliography (72 items). **Copy seen:** DLC.

**VORONTSOV, B. S.**, *see* Snezhinskii, V. A., & B. S. Vorontsov. Ledostav 1927 goda na r. sev. basseina. 1928. No. 26292.

**27184. VORREN, ØRNULV.** Rein-drift og nomadisme i Varangertraktene. Tromsø, 1951. 127, 16 p. illus., plates, map. (Tromsø. Museum. Aarshefter, 1946, v. 69, nr. 2) **Title tr.:** Reindeer industry and nomadism in the Varanger districts.

*Contains* a study (completed in 1946) describing the life of the Lapps in the districts south of Varanger Fjord, most easterly of the big fiords in Finnmark (northern Norway). The topography of the land is described, as well as the vegetation. The reindeer and their care receives detailed treatment, also the migrations of the herds from the summer pastures on Varanger Peninsula to the winter pastures inland. Reindeer driving

is discussed, and equipment shown in photographs and drawings. Tents and camping places, food, household utensils, and clothing are all treated in text and numerous illustrations. A final chapter is devoted to the history of the development of the reindeer industry in the southern Varanger districts. Summary in English (16 p.). **Copy seen:** DLC.

**27185. VORREN, ØRNULV.** Reinmerking i Sør-Varanger. (Folk-Liv, 1948-49, v. 12-13, p. 177-98, 89 small illus.) **Title tr.:** Reindeer-marking in South Varanger.

Patterns of ownership marks cut in the ears of the reindeer in this section of Norwegian Lapland. Summary in English. **Copy seen:** InU.

**27186. VOSHCHININ, V. P.** The bases of colonization in north European Russia. (In: American Geographical Society of New York. Pioneer settlement, 1932 p. 236-39)

*Contains* discussion of the natural belts of the region and their colonization value, the plan for development of the taiga around the lumbering centers, and other colonization problems.

**Copy seen:** DLC.

**27187. VOSKOBOÏNIKOV, M. G.** Ob èvenkiiskoi narodnoi pesne. (Sovetskaiia ètnografiia, 1951, no. 1, p. 100-113) **Title tr.:** Folk songs of the Evenki (Tungus).

*Contains* material collected by the author in 1930-35 and 1946-47 while he lived in the Buryat-Mongolian ASSR; also a general characterization of Tungus songs and their bibliography (recent publications). Texts (in Russian only) and comments are given on: singing games, lullabies, wedding songs, and recent soviet (revolutionary) songs.

**Copy seen:** DLC.

**27188. VOSKOBOÏNIKOV, M.** Zametki o sovsialisticheskoi zhizni na Kralnem Severe. (Sibirskie ogni, May-June 1951, t. 30, no. 3, p. 116-22) **Title tr.:** Notes on life in the far North under socialism.

*Contains* a general account of the advances of the native arctic peoples and territories under Soviet rule, with some isolated figures on the increased production on kolkhoses; advances in agriculture and fisheries; cultural advances, etc. Comparison is made with conditions in Alaska. Students from the Arctic at the Faculty of the Peoples of the North of Leningrad University and their activities

for their people and areas are noted, as well as native students at the arctic section of the Leningrad pedagogic institute, literary and translation work, native arctic art and artists.

**Copy seen:** DLC.

**VOZNESENSKIĬ, I. G.,** see Lipshits, B. A. *Étnograf. materialy po Sev.-Zap. Amerike. 1950. No. 23938.*

**27189. VRANGEL', FERDINAND PETROVICH, Baron, 1794-1840.** Eismeer und Tundra. Leipzig, Brockhaus, 1950. **Title tr.:** Arctic sea and tundra.

An abridgement of the author's *Reise des kaiserlich-russischen Flotten-lieutenants Ferdinand v. Wrangel längs der Nordküste von Sibirien und auf dem Eismeere in den Jahren 1820 bis 1824 (Berlin, 1839)* which was translated by G. Engelhardt from the then unpublished Russian ms., *Puteshestvie po severnym beregam Sibiri i po Ledovitomu moriu* (see Arctic bibliography, No. 19001-19002). This popular modern edition tells in condensed form, the story of Baron Wrangel's trip overland, the trips in the region east of the Yana River to Chauna Bay, and his boat voyages and sledge journeys from Lena delta north and eastward to the New Siberian Islands and beyond, 1820-1823.

**Copy seen:** DLC.

**27190. VREIM, HALVOR** The ancient settlements in Finnmark, Norway and tents. (Folk-Liv, 1937, v. I, p. 169-204, 9 illus., 12 plates)

*Contains numerous references to the dwellings of the Lapps.*

**Copy seen:** InU.

**27191. VRETLIND, E. G., and F. NORDSTRÖM.** Förödande inverkan på fjärilslivet i Lappland av den kolla sommaren 1928. (Entomologisk tidskrift, 1930. Årg. 51, häft. 1, p. 80-82) **Title tr.:** Devastation caused by the cold summer of 1928 on lepidoptera in Lapland.

*Contains data on damage to the lepidopterous fauna of Mala parish (Vretlind) and Tärna parish (Nordström) in Swedish Lapland, from the cold weather in the summer of 1928, with references to individual species.*

**Copy seen:** DA; MH-Z.

**27192. VRETLIND, E. G.** Om den högre fjärilfaunan i en av de östliga lappmarkssöcknarna Mala i Västerbottens län. (Entomologisk tidskrift, 1931. Årg. 52, häft. 3-4, p. 175-82) **Title tr.:** On the alpine Lepidoptera fauna of the

eastern Lappmark parish Mala and the province Västerbotten.

*Contains a general sketch of the vegetation and entomological fauna of eastern Lapland and Västerbotten, a systematic list of about 100 lepidoptera, with data on habitat and ecology, and a comparison of insect fauna of Mala and Pajala parishes.*

**Copy seen:** DA; MH-Z.

**27193. VSESOŪZNOE GEOGRAFIČESKOE OBSHCHESTVO.** Lev Semenovich Berg. (In its: Izvestiia, 1951. t. 83, p. 3-8, plate)

Obituary of the geographer Berg, d. Dec. 24, 1950, with outline of his scientific work and mention of his principal publications.

**Copy seen:** DLC.

**27194. VUORISTO, ILMARI.** Työennätykset tukkien teossa ja ajossa Perä-Pohjolassa. Helsinki, 1935. 27 p., tables, diagrs. (Acta forestalia fennica, 42:5) **Title tr.:** Working efficiency in timber cutting and hauling in Perä-Pohjolassa.

An efficiency study showing influence of the nature of the forest and the trees on cutting and hauling of unbarked timber. Data are given from eight localities in this district of northern Finland (northern Ostrobothnia), and on 745,200 cu. feet of timber. Summary in English.

**Copy seen:** DLC.

**27195. VUORISTO, ILMARI.** Uittohankaluustutkimuksia. Helsinki, 1938. 313 p., diagrs., maps, tables. (Helsingfors. Metsäteellinen tutkimuslaitos. Julkaisu, 25:3) **Title tr.:** Investigations regarding floating difficulties.

*Contains results of investigation to determine effect of size and quality of floated timber on the floating difficulty. Data are presented on the floating of logs down rivers and canals in northern as compared with southern Finland. Difficulties due to a short floating season, water conditions, channel, and individual log characteristics are described and the latter two are correlated. Bibliography (20 items). Summary in English, p. 259-313.*

**Copy seen:** DLC.

**27196. VYSHINSKIĬ, ANDREĬ IĀNUAR'EVICH, 1883-** . Sudebnye rechi. Iŭridicheskoe izd-vo Ministerstva ūstitsiī SSSR. Moskva, 1949. 538 p. **Title tr.:** Court speeches.

Includes (p. 225-90) Delo byvshego nachal'nika zimovki na ostrove Vrangeliā Semenchuka i kaŭra Starŭseva. (The

case of Semenchuk, former head of the wintering party on Wrangel Island, and of Starfsev). This is a record of the trial, etc., of Semenchuk who was accused of denying food, fuel, etc., to the natives, of "bestial" behavior generally, even to the sick, and with aid of some subordinates, of suppressing efforts to inform higher authorities. Semenchuk, according to his own words, was "the prosecutor, the GPU and the court" of the place. The doctor of the party who was most active in fighting this corruption, was sent one day by Semenchuk to a nearby point under the guidance of Starfsev and did not return. His battered body was found later. Semenchuk's investigation, based solely on Starfsev's story, concluded that the doctor, apparently drunk, lost his way and froze to death. Later expert examination revealed that the doctor had been killed by a blow on the head. His widow was for long prevented from getting in contact with the outside world, but eventually court proceedings, in which the author was public prosecutor, took place in Moscow on May 17-23, 1936. Both defendants were sentenced to death. An appeal for clemency was rejected.

**Copied seen:** DLC.

**27197. VYSHNEPOL'SKIĬ, S. A.** K probleme pravovogo rezhima arkticheskoi oblasti. (Sovetskoe gosudarstvo i pravo, July 1952, no. 7, p. 36-45) **Title tr.:** Contribution to the problem of the legal status of the arctic region.

*Contains bitter attacks upon the attitude of the U.S. on the ground that it opposes the sector principle in sovereignty of the Arctic as proclaimed in 1926 by Central Executive Committee of the U.S.S.R. Following the opinion of Prof. E. A. Korovin and other Soviet authorities, the author advocates the extension of this principle, to apply not only to lands and islands as it was established by the decision of 1926, but to all arctic waters as well, with the exception of the Barents and Bering Seas. He emphasizes the claim to Soviet sovereignty over Kara, Laptev, part of Chukchi, and East Siberian Seas, presenting special arguments in the case of each of these seas.*

**Copied seen:** DLC.

**27198. WAACK, CARL, 1861-** Von Andree bis Zeppelin; das Luftschiff im Dienste der Polarforschung. Rostock, C. J. C. Volkemann nachf., E. Wette, 1910. 63, [1] p., front., illus. (incl. maps)

port. **Title tr.:** From Andree to Zeppelin; the airship in polar exploration.

An outline of the problem of reaching the North Pole by lighter-than-air craft.

**Copied seen:** DLC.

**27199. WAANANEN, ARVI O.** The hydrology of Alaska. (In: Alaskan Science Conference . . . 1950. Selected papers, 1952. p. 151-62)

*Contains an historical sketch of hydrological research in Alaska, with discussion of scope and significance of such studies; climatic and topographic areas of Alaska; ground and surface waters inventories and exploration; chemical and physical research; the uses of and needs for hydrologic data in utilization and development of water resources of Alaska. Bibliography (11 items).*

**Copied seen:** DAI; DLC.

**27200. WAARAMÄKI, TAUNO.** Eräitä lintutietoja Kuusamosta vuosilta 1934-36, 1937-39 ja 1941-43. (Ornis fennica, 1945. v. 21, no. 4, p. 17-20) **Title tr.:** Random observations on birds in Kuusamo during the years 1934-36, 1937-39 and 1941-43.

Field notes on 25 species. Summary in German. **Copied seen:** DLC.

**27201. WACHSMUTH, W.** Kälteschäden. (In: S. Handloser, ed. Wehrhygiene, Berlin, 1944, p. 215-20) **Title tr.:** Cold injuries.

*Contains sections on: physiological heat regulation; genesis and conditions favoring cold injuries; prevention of cold damage (general conduct, clothing, shelter, transport of wounded); classification of cold injuries; treatment (first aid, special treatment); permanent injuries. Bibliography (14 items).* **Copied seen:** DLC.

**27202. WÄNGSJÖ, GUSTAV.** The Downtonian and Devonian vertebrates of Spitsbergen, IX. Morphologic and systematic studies of the Spitsbergen cephalaspids. Results of the Th. Vogt's Expedition 1928 and the English-Norwegian-Swedish Expedition 1939. Oslo, J. Dybwad, 1952. 611, [3] p. illus., 118 plates under separate cover. (Norsk Polarinstitut. Skrifter nr. 97)

*Contains a monographic study of the taxonomy of the upper Silurian and Devonian cephalaspid fishes collected mostly in 1928 and 1939 in many localities of north central West Spitsbergen. Includes in addition, a section on anatomy which points out "certain new*

facts" and describes structures which lead to new interpretations. Bibliography (over 400 items). **Copy seen:** DGS.

**27203. WÄRE, MATTI.** Maan vesisuhteista ja viljelyskasvien sadoista Maasojan vesitaloudellisella koekentällä vuosina 1939-1944. (Maa- ja vesiteknillisii tutkimuksia, 1947. no. 5, p. 1-222, illus., tables, diagrs.) **Title tr.:** The moisture characteristics of the soil and plants at Maasoja, the water economy experiment field, during the years 1939-1944.

*Contains a detailed description of the experiment fields at Maasoja (63° N. in Finland), and the study carried on there of climate, snow, frozen soil, ground water, the water-retention capacity of the soils, evaporation, characteristics of soil water and their effect on various plants. The chapter on snow and frozen ground (p. 42-66) notes earlier studies, gives statistical data on depth of snow and ground frost 1939-43 in clay and peat soils drained and undrained; snow density and water content; snow depth in areas with surface and underground drainage; observations on snow melting; depths of ground frost in clay and peat soils drained and undrained; dates of disappearance of the snow and ground frost. The heights of ground water in the winter, spring, summer and fall are given (p. 67-109); and the water-retention capacity of frozen soil (p. 144-49). Bibliography (200 items). Summary in German, p. 223-40.*

**Copy seen:** DA.

**WAGER, JOHN,** *see* Horvath, S. M., & others. Some observ. men sitting quietly extreme cold. 1946. No. 22714.

**27204. WAGER, LAWRENCE RICHARD, 1904-**, and R. L. MITCHELL. The distribution of Cr, V, Ni, Co and Cu during the fractional crystallization of a basic magma. (International Geological Congress. 18th, London, 1948 Report. Pt. 2. Proceedings of Section A, Problems of geochemistry, pub. 1950. p. 140-50, tables)

Results of determination by optical spectrographic methods of amounts of certain trace elements in minerals separated from the Skaegaard intrusion of Skaegaards Halvö, East Greenland (68° 10' N. 31°40' W.) studied by L. R. Wager during the British East Greenland Expedition, 1935-36, and petrologically described in his *Geological investigations*

on East Greenland, pt. 3, 1939 (see *Arctic Bibliography*, No. 19034).

**Copy seen:** DGS.

**27205. WAGER, LAWRENCE RICHARD, 1904-**, and R. L. MITCHELL. The distribution of trace elements during strong fractionation of basic magma; a further study of the Skaegaard intrusion, East Greenland. (*Geochimica et cosmochimica acta*, 1951. v. 1, p. 129-208, tables)

The Skaegaard intrusion forms a large area on the east side of Kangerdlugsuaq, 68°10' N. 31°40' W. "A number of trace elements have been determined spectrographically in the rocks and minerals . . . The original basic magma had a normal trace element composition. The sorting out of the trace elements into the various mineral series produced by strong fractional crystallization of the original basic magma is traced in detail by means of analyses of the separated minerals."—From the author's abstract. Bibliography (80 items).

**Copy seen:** DGS.

**27206. WAGLEY, PHILIP F., and others.** A note on studies of hemolysis in paroxysmal (cold) hemoglobinuria. (*American journal of medicine*, Apr. 1947. v. 2, p. 342-46, 2 charts) *Other authors:* W. H. Zinkham, and A. A. Siebens.

*Contains a preliminary note on studies relative to the mechanism of hemolysis in cold-hemoglobinuria, made on a syphilitic male; they indicate that CO<sub>2</sub> under specific conditions may effect the hemolysis in this disease; that under certain circumstances carbonic anhydrase inhibitors may prevent hemolysis and that definite, morphological changes of the erythrocytes occur prior to hemolysis. Bibliography (11 items).*

**Copy seen:** DLC.

**WAGNER, A.,** *see* Rempp, G., & A. Wagner. Hydrodynamik des Föhns in Spitzbergen. 1917. No. 25444.

**27207. WAGNER, EDUARD.** Die europäischen Arten der Gattung *Orius* Wff. (Hem. Het. Anthicoridae). (*Notulae entomologicae*, 1952, v. 32, no. 1-3, 22-59, illus.) **Title tr.:** European species of the genus *Orius* Wff.

*Contains a critical revision of the European species of the hemipterous genus Orius, based chiefly on study of the collection of the Zoological Museum at Helsinki, with data on the division of*

the genus, discussion of the species, descriptions of 22 species (seven described as new), a table of dimensions (p. 54-55) and a key for the determination of subgenera and species. Includes *Heterorius sibiricus* n. sp. native to Yakutia and eastern European Russia.

**Copy seen:** MH-Z.

**27208. WAGNER, EDUARD.** Über *Eremocoris abietis* L. (Hem. Het. Lygaeidae). (Opuscula entomologica, 1949. Bd. 14, häft. 2-3, p. 175-76, illus.) **Title tr.:** On *Eremocoris abietis* L.

Contains a diagnosis of a bug, *Eremocoris abietis* var. *lapponicus* n. var., (male and female specimens) collected by H. Gravestein in Jebrenjokk, Torne Lappmark, northern Sweden, in the summer of 1948.

**Copy seen:** DA; MH-Z.

**27209. WAGNER, HANS.** Die in die Unterfamilie Limacinae gehörenden Formen des Naturhistorischen Museums in Wien. (In: Festschrift Dr. E. Strand, 1936-37, pub. 1937, Bd. 2, p. 373-90, plate 27) **Title tr.:** Forms belonging to the sub-family Limacinae in the Museum of Natural History of Vienna.

Contains a critical revision of 35 species and some lower forms of terrestrial slugs in the collection of this museum, with descriptions of three new species and lists of localities for each form; includes *Agrioclimax (Hydroclimax) laevis* native to Franz Josef Land.

**Copy seen:** DSI-M; MH-Z.

**27210. WAGNER, HANS.** Ein neues *Apion* aus Finnland. Nebst einigen weiteren Bemerkungen zur Gattung *Apion*. 47. Beitrag zur Kenntnis der Gattung *Apion*. (Notulae entomologicae, 1942. v. 22, no. 3-4, p. 157-61) **Title tr.:** A new *Apion* from Finland, with some further notes on the genus *Apion*. Contribution to the knowledge of the genus *Apion*, 47.

Contains critical notes on various species of beetles of the genus *Apion*, including *A. amethystinum* occurring in the Torneträsk region (68°30' N.) in Sweden.

**Copy seen:** DLC; MH-Z.

**27211. WAHLGREN, EINAR OTTO, 1874-** . Collembola från Torne Lappmark och angränsande trakter. (Entomologisk tidskrift, 1906. Årg. 27, häft. 3-4, p. 219-30, illus.) **Title tr.:** Collembola from Torne Lappmark and adjoining regions.

Contains a systematic list of 33 species of Collembola collected by the author

during his exploring trip in 1900 to Torne Lappmark (Kiruna, Kurravara, Abisko, Torneträsk) with localities, data on habitat and German diagnoses of four new species, p. 228-30.

**Copy seen:** DLC; MH-Z.

**27212. WAHLGREN, EINAR OTTO, 1874-** . De europeiska polaröarnas insectfauna, dess sammansättning och härkomst. (Entomologisk tidskrift, 1920. Årg. 41, häft. 1, p. 1-23) **Title tr.:** On insect fauna of European arctic islands, its composition and origin.

Contains brief notes and data on elements of insect fauna (endemics, Eurasian, Eurasian-American, Eurarectic, Greenland, etc.) of Jan Mayen, Bjørnøya, Svalbard, Franz Josef Land and Novaya Zemlya; with a discussion of the characteristics of arctic islands insect fauna, its origin and history of its development; bibliography (28 items).

**Copy seen:** DLC; MH-Z.

**27213. WAHLGREN, EINAR OTTO, 1874-** . Eriophyideccidier av biogeografiskt intresse. (Entomologisk tidskrift, 1948. Årg. 69, häft 4, p. 161-206) **Title tr.:** Galls of biogeographic interest produced by Eriophyidae.

Contains data on geographic distribution of gall mites (Eriophyidae) and on the possibilities of their spreading, p. 161-69; a study of Scandinavian distribution (arctic or high-boreal, arcto-alpine and central-boreal species) of cecidia, p. 177-96, and a bibliography (297 items). Includes biogeographic data on many cecidia of northern Eurasia and arctic islands. Summary in German.

**Copy seen:** DA; MH-Z.

**27214. WAHLGREN, EINAR OTTO, 1874-** . Fjärilar från Övre Dalarna och Lule Lappmark. (Entomologisk tidskrift, 1923. Årg. 44, häft 2, p. 160-62) **Title tr.:** Lepidoptera from Övre Dalarna and Lule Lappmark.

Contains a list of about 120 butterflies collected by O. Westerlund in Jokkmokk, Kvikkjokk and Storbacken districts of Lule Lappmark in northern Sweden.

**Copy seen:** DLC; MH-Z.

**27215. WAHLGREN, EINAR OTTO, 1874-** . Fjärilar och blommor. (Entomologisk tidskrift, 1937. Årg. 59, häft. 1-2, p. 1-34) **Title tr.:** Lepidoptera and flowers.

Contains the result of the author's observations on the relationship between

day-flying lepidoptera and flowering plants, with a list of 72 butterflies and a systematic list of plants visited by each species; 436 plants mentioned in 1,811 combinations; the investigated region included Åbisko in Torne Lappmark.

**Copy seen:** DA; MH-Z.

**27216. WAHLGREN, EINAR OTTO, 1874-** . Individuell variabilitet hos *Papilio machaon machaon* L. (Opuscula entomologica, 1942. Bd. 7, häft. 1-2, p. 1-10) **Title tr.:** Individual variability of *Papilio machaon machaon* L.

Contains a study of geographic races of a very variable Linnean species of swallow-tailed butterflies, *Papilio machaon machaon*, including a form native to Swedish Lapland, *P. m. lapponicus*; bibliography (32 items).

**Copy seen:** DA; MH-Z.

**27217. WAHLGREN, EINAR OTTO, 1874-** . Lappländska larv- och puppfynd av *Papilio machaon* L. (Opuscula entomologica, 1943. Bd. 8, häft. 3-4, p. 121-22) **Title tr.:** Finds of larvae and pupae of *Papilio machaon* L. in Lapland.

Contains descriptive notes on larvae and pupae of a butterfly, *Papilio machaon*, found in Torne and Lule Lappmark, with data on distribution, life history and ecology.

**Copy seen:** DA; MH-Z.

**27218. WAHLGREN, EINAR OTTO, 1874-** . Några anteckningar rörande svenska Odonata och Neuroptera s. l. (Entomologisk tidskrift, 1915. Årg. 36, häft. 1, p. 169-73, illus.) **Title tr.:** Some notes on Swedish Odonata and Neuroptera s. l.

Contains critical notes and data on the distribution of 18 Swedish species of Odonata and Neuroptera, including *Aeschna coerulea*, native to Torne Lappmark, and *Sialis fuliginosa* from southern Lapland.

**Copy seen:** DLC; MH-Z.

**27219. WAHLGREN, EINAR OTTO, 1874-** . *Papilio machaon* L. från Lapland och Norrbotten. (Opuscula entomologica, 1943. Bd. 8, häft. 1-2, p. 1-12) **Title tr.:** *Papilio machaon* L. from Lapland and Norrbotten.

Contains a detailed study of six specimens of a very variable butterfly, *Papilio machaon*, recognized as a distinct geographic race (*P. m. lapponica*) by some entomologists, from three localities in Torne Lappmark and from one in

Åsele Lappmark; four specimens from Haparanda in Norrbotten were also investigated. Summary in German.

**Copy seen:** DA; MH-Z.

**27220. WAHLGREN, EINAR OTTO, 1874-** . Revision von Zetterstedt's lappländischen Aphidina. (Opuscula entomologica, 1939. Bd. 4, häft. 1-2, p. 1-9) **Title tr.:** Revision of Zetterstedt's Aphididae of Lapland.

Contains a critical revision of eleven plant lice of the genus *Aphis* described by Zetterstedt in his *Fauna insectorum lapponica*, 1828, q. v. and *Insecta lapponica*, 1840, q. v., with synonymy, critical notes and data on host plants and geographic distribution in Swedish Lapland and adjoining regions.

**Copy seen:** DA; MH-Z.

**27221. WAHLGREN, EINAR OTTO, 1874-** . Sammarisk redogörelse för innehållet i *Entomologisk tidskrift* åren 1890-1909. (Entomologisk tidskrift, 1911. Årg. 32, häft. 3-4, p. i-lvii) **Title tr.:** A summary of the contents of *Entomologisk tidskrift* for the years 1890-1909.

Contains a subject bibliography of all articles, published in this journal, 1890-1909, with very brief summaries and lists of new or noteworthy species; includes many articles on the arctic regions of Scandinavia which appear also in this *Arctic Bibliography*.

**Copy seen:** DLC; MH-Z.

**27222. WAHLGREN, EINAR OTTO, 1874-** . Svensk insektfauna, 1. Borstsvansar och Hoppstjärter. (Entomologisk tidskrift, 1906. Årg. 27, häft. 3-4, p. 233-70, illus.) **Title tr.:** Swedish insect fauna, 1. Apterygogenea (Thysanura and Collembola).

Contains a taxonomic study of suborders Thysanura and Collembola of the order Apterygogenea, with synopses of the suborders, families, genera and species, keys and descriptions of 120 species known from Sweden, including some representative of northern regions (Swedish Lapland). This paper forms pt. 1 of *Svensk insektfauna* (q. v.) compiled by various specialists.

**Copy seen:** DLC; MH-Z.

**27223. WAHLGREN, EINAR OTTO, 1874-** . Svensk insektfauna, 10. Tionde ordningen. Fjärillar. Lepidoptera, II. Småfjärilear. Microlepidoptera. (Entomologisk tidskrift, 1915. Årg. 36,

häft. 2-4, p. 97-181, illus., plates 1-4) **Title tr.:** Swedish insect fauna, 10. Tenth order. Lepidoptera, II. Microlepidoptera.

*Contains a systematic treatment of Lepidoptera, worked out as a part (10th order) of Svensk insektfauna (q. v.), a composite work by various entomologists. Keys to the families, subfamilies, genera and species, descriptions, critical notes and data on distribution are given here. Many species native to Swedish Lapland are included.*

**Copy seen:** DLC; MH-Z.

**27224. WAHLGREN, EINAR OTTO, 1874- .** Svenska bladlopper (Chermesidae). (Entomologisk tidskrift, 1934. Årg. 55, häfte. 2, p. 81-104) **Title tr.:** Swedish plant lice (Chermesidae).

*Contains a discussion of the priority of the names Chermes and Psylla and a systematic list of 51 species of Swedish jumping plant lice, with data on their biology, host plants and galls produced by some of them; includes 13 species native to Swedish Lapland; bibliography (74 items).*

**Copy seen:** DA; MH-Z.

**27225. WAHLGREN, EINAR OTTO, 1874- .** Svenska bladloss (Aphidina). (Entomologisk tidskrift, 1937. Årg. 59, häft. 3-4, p. 166-87) **Title tr.:** Swedish plant lice.

*Contains a systematic list of about 200 plant lice (fam. Aphididae), with data on habitat, distribution, host plants and occasional critical notes; includes a few species extending to Swedish Lapland.*

**Copy seen:** DA; MH-Z.

**27226. WAHLGREN, EINAR OTTO, 1874- .** Sveriges insektgeografiska indelning på grundval af makrolepidopterernas utbredning. (Entomologisk tidskrift, 1913. Årg. 34, häft. 2-4, p. 136-63) **Title tr.:** Subdivision of Swedish insect fauna on the basis of the distribution of macrolepidoptera.

*Contains data on the general zoogeographic division of Sweden and following insect regions: arctic, subarctic, boreal, subboreal and temperate; remarks on factors influencing insect distribution; lists of typical macrolepidoptera for each region.*

**Copy seen:** DLC; MH-A.

**27227. WAHLGREN, EINAR OTTO, 1874- .** Über drei Zetterstedt'sche Geometridae. (Entomologisk tidskrift, 1919. Årg. 40, häft. 2-4, p. 72-74) **Title tr.:** On three Geometridae of Zetterstedt.

*Contains a discussion of the taxonomic identity of three species of geometrid moths, described by Zetterstedt in his Insecta lapponica.*

**Copy seen:** DLC; MH-Z.

**27228. WAHLGREN, EINAR OTTO, 1874- .** Über *Pulex vagabunda* Bohem. (Entomologisk tidskrift, 1903. Årg. 24, häft. 2-3, p. 219) **Title tr.:** On *Pulex vagabunda* Bohem.

*Contains a taxonomic note on a flea species, *Pulex vagabunda*, described by Boheman in 1865 from a specimen collected in 1864 on Kap Todsén (i. e. Thorsén) in Ifsorden West Spitsbergen, with a change of the name to *Ceratophylus vagabundus*.*

**Copy seen:** DLC; MH-Z.

**27229. WAHLGREN, EINAR OTTO, 1874- .** Västarktiska element i Skandinavien fjärlfauna. (Entomologisk tidskrift, 1919. Årg. 40, häft 1, p. 22-32) **Title tr.:** West arctic element in Scandinavian alpine fauna.

*Contains a study of elements in Scandinavian alpine fauna of butterflies (Lepidoptera), singling out a group distributed in the northern region of Norway, Sweden, Finland and in northern North America, and another in northern Scandinavia and northeastern Siberia (but not in western Siberia); a theory of the interglacial relict origin of such groups is discussed. Summary in German.*

**Copy seen:** DLC; MH-Z.

**27230. WAHLGREN, EINAR OTTO, 1874- .** Zur Kenntnis schwedischer Dipteren, I-II. (Entomologisk tidskrift, 1909. Årg. 30, häft. 1-2, p. 125-28; (II) 1910, Årg. 31, häft. 1, p. 28-34) **Title tr.:** Contribution to the knowledge of Swedish Diptera, I-II.

*Contains critical notes on various Swedish dipters, including *Platypezina conneza* n. gen., n. sp. from Lycksele Lappmark, *Cnemodon fulvimanus* (Norrbotten), *Clinocera acuta* (Lapland) and *Pipunculus borealis* n. sp. ("Lapponia inferior" and "Lapponia intermedia").*

**Copy seen:** DLC; MH-Z.

**27231. WAHLGREN, EINAR OTTO, 1874- .** Zur Kenntnis schwedischer Dipteren, III. (Entomologisk tidskrift, 1918. Årg. 39, häft. 1, p. 1-9) **Title tr.:** Contribution to the knowledge of Swedish Diptera, III.

*Contains a description of *Helomyza (Blepharoptera) nigrinervis* n. sp. from*

southern Lapland and critical notes on eight species of *Helomyza* and *Heteromyza* recorded by Zetterstedt from Swedish Lapland. This is a continuation of pt. I-II, published 1909-1910, q. v.

**Copy seen:** DLC; MH-Z.

**WAHLGREN, EINAR OTTO, 1874-**, see also Bryk, F., & F. Nordström. Bibliographische... Zusätze zu Svenska fjärlar. 1946. No. 20989.

**WAHLGREN, EINAR OTTO, 1874-**, see also Nordström, F., & E. O. Wahlgren. Svenska fjärlar. 1935-41. No. 24722.

**27232. WAHRHAFTIG, CLYDE ADOLPH, 1919-**. Physiographic history of southern Alaska: a hypothesis. (Geological Society of America. Bulletin, Dec. 1950. v. 61, p. 1532)

Abstract of a paper to be read before the November 1950 meeting of the Geological Society of America: discussion of five steps in the history of southern Alaska, "proposed to explain the anomalous courses of large rivers across plains and mountains, radial drainage from the Copper River plateau, isolated mountains of great height, and large areas of drainage adjusted to structure."

**Copy seen:** DGS.

**WAHRHAFTIG, CLYDE ADOLPH, 1919-**, see also Barnes, F. F., & others. Coal investigations in south-central Alaska 1944-46. 1951. No. 20470.

**27233. WALDEN, ARTHUR TREADWELL.** A dog-puncher on the Yukon, with an introduction by Walter Collins O'Kane. Boston & New York, Houghton Mifflin Co., 1928. xviii p., 1 l., 289 p., front., plates, maps on lining-papers.

Account of the author's travels in 1896 by Southeast Alaska to the Yukon valley; the winter at Circle City, transporting freight by dog-sledge to the mines at Birch Creek (with note on the "Yukon type" sledge); Dawson; the Klondike gold rush 1897-98; transportation by pack train, sews on the Yukon, etc.; author's adventures gold prospecting.

**Copy seen:** DLC.

**WALES, D. B.,** see Kurtz, V. E., & others. Stratigraphy Dundas Harbour area. 1950. No. 23550.

**WALES, D. B.,** see also Kurtz, V. E., & others. Stratigraphy Dundas Harbour area. 1952. No. 23549.

**WALKER, EGBERT HAMILTON, 1899-**, see Van Schaack, G. B. Flowers of Island X. 1945. No. 27041.

**WALKER, ERNEST PILLSBURY, 1891-**, see Amerikanskil Sever; sbornik statel. 1950. No. 20180.

**27234. WALKER, SHEPPARD M.** Effect of low temperature on the mechanical response and action potential of rat muscle. (American journal of physiology, Dec. 1948. v. 155, p. 475-76)

Contains an abstract of observations on muscle of hypothermic animals, with records taken at a rectal temperature of  $\pm 26^{\circ}$  C. Tension, contraction- and relaxation-time, as well as duration of action potentials were recorded, analyzed and compared with control data.

**Copy seen:** DLC.

**27235. WALKER, SHEPPARD M.** Failure of potentiation in successive, posttetanic, and summated twitches in cooled skeletal muscle of the rat. (American journal of physiology, Aug. 1951. v. 166, p. 480-84, 4 fig.)

Contains an account of an *in situ* study of triceps sural of the rat, cooled to  $29^{\circ}$  and  $20^{\circ}$  C. After cooling, the three types of potentiation observed in muscle at normal body temperature, were absent or small. Some evidence is presented that this failure of potentiation in cooled muscle is not due to fatigue. Bibliography (9 items).

**Copy seen:** DLC.

**27236. WALKINSHAW, LAWRENCE H.** Some bird observations at Chevak, Alaska. (Auk, Apr. 1950. v. 67, p. 249)

Field notes on about 30 species of birds found on the West Alaska tundra in June 1946, near the Kashunuk River (about  $61^{\circ}30'$  N.  $167^{\circ}$  W.).

**Copy seen:** DSI-M.

**27237. WALLACE, M. MARVIN, 1914-**, and others. Contribution to the biology of king crab (*Paralithodes camtschatica* Tilesius). Washington, 1949. 50 p., incl. tables, diags. (U. S. Fish and Wildlife Service. Fishery leaflet 340.) Process print. Other authors: C. J. Pertuit and A. R. Hvatum.

Preliminary contribution of data (upon which more observations and more study are needed) from the Alaska Crab Investigation 1940-42. The latter operated vessels in southern Alaskan waters (Frederick Sound to Alaska Peninsula) and in southeastern Bering

Sea to Saint Lawrence Island. Data cover relative growth, reproduction, growth processes, migrations, habitat, and food of the king crab. Note is given on protection of the fishery. Bibliography (6 items). **Copy seen:** DL.

**27238. WALLACE, WILLIAM STEWART, 1884-** . The literature relating to the Norse voyages to America. (Canadian historical review, Mar. 1939. v. 20, no. 1, p. 8-16)

*Contains* survey and discussion of Icelandic sagas and finds of relics (in Baffin Bay, Minnesota, and Ontario) from which derive evidence and claims of Norsemen's visits to North America. Critical correlation of modern (since 1705) literature on "Vinland," the Kensington rune stone and Beardmore relics is given, with conclusion that Norsemen from Greenland reached King-igtarsuk Island in Baffin Bay, almost certainly reached Gulf of St. Lawrence, and (from Vesterbygd early 14th century) may have penetrated to Hudson Bay, northern Ontario and Minnesota.

**Copy seen:** CaMAI; DLC.

**27239. WALLENBERG, CARL [FRIEDRICH THEODOR GIDEON] von, 1936-** . De molluscis Lapponiae Lulensis. Bero-  
lini, typis expressit G. Schade [1858]. 48 p., plate. **Title tr.:** On the molluscs of Lule Lapland.

PhD. thesis, Berlin University, giving descriptive notes (in Latin) on 22 species.

**Copy seen:** DLC.

**27240. WALLENGREN, HANS DANIEL JOHAN, 1823-1894.** Förteckning å de Linnophilidae, Apatanidae och Sericostomatidae som hittills blifvit funna på Skandinaviska halfön. (Entomologisk tidskrift, 1884. Årg. 5, häft. 3, 115-38, 210-22) **Title tr.:** List of Linnophilidae, Apatanidae and Sericostomatidae found up to the present time on the Scandinavian Peninsula.

*Contains* a systematic list of 78 species of caddis flies of three families known from Scandinavia, with data on distribution; includes many species native to northern regions. The second part of this paper contains an answer to Dr. Hagen's criticism of the author's interpretation of some Linnean species of *Phryganea*. Summary in French.

**Copy seen:** DLC; MH-Z.

**27241. WALLENGREN, HANS DANIEL JOHAN, 1823-1894.** Förteckning

öfver Trichoptera acquipalpina, som hittills blifvit funna på Skandinaviska halfön. (Entomologisk tidskrift, 1890. Årg. 11, häft. 1-2, p. 1-17) **Title tr.:** List of Trichoptera acquipalpina found up to the present time on the Scandinavian Peninsula.

*Contains* a revised systematic list of 66 Scandinavian trichopters with critical notes and data on Scandinavian distribution; includes more than 20 species native to Lapland and northern Norway.

**Copy seen:** DLC; MH-Z.

**27242. WALLENGREN, HANS DANIEL JOHAN, 1823-1894.** Förteckning på de Ephemerider som hittills blifvit funna på Skandinaviska halfön. (Entomologisk tidskrift, 1882. Årg. 3, häft. 3, p. 173-78, 204-205) **Title tr.:** List of Ephemerides found up to the present time on the Scandinavian Peninsula.

*Contains* a systematic list of 22 species of ephemerides (Ephemeridae) known from the Scandinavian Peninsula, including 10 native to Swedish Lapland and northern Norway. Summary in French.

**Copy seen:** DLC; MH-Z.

**27243. WALLENGREN, HANS DANIEL JOHAN, 1823-1894.** Öfversigt af Skandinavien arter af Dipterengruppen *Phasinae*. (Entomologisk tidskrift, 1880. Årg. 1, häft. 1, p. 16-21) **Title tr.:** A review of the Scandinavian species of the dipterous group *Phasinae*.

*Contains* a table for the determination of the genera of dipterous group *Phasinae* and a systematic list of 19 species with descriptive notes and data on Scandinavian distribution, including six species native to Swedish Lapland and northern Norway.

**Copy seen:** DLC; MH-Z.

**27244. WALLENGREN, HANS DANIEL JOHAN, 1823-1894.** Öfversikt af Skandinavien Pseudoneuroptera. (Entomologisk tidskrift, 1894. Årg. 15, häft. 3-4, p. 235-70, illus.) **Title tr.:** A survey of Scandinavian Pseudoneuroptera.

*Contains* a critical revision of 47 species of Scandinavian Pseudoneuroptera (family Odonata) with keys to the genera, synonymy, descriptions, critical notes and data on Scandinavian and total distribution; includes 14 species native to northern region of Scandinavia.

**Copy seen:** DLC; MH-Z.

**27245. WALLENGREN, HANS DANIEL JOHAN, 1823-1894.** Om Skandi-

naviensarter af familien Phryganeidae. (Entomologisk tidskrift, 1880. Årg. 1, häft. 2, p. 64-75) **Title tr.:** On Scandinavian species of the fam. Phryganeidae.

*Contains a table for the determination of the genera of the fam. Phryganeidae and description of 15 species (one new), with synonymy, critical notes and data on Scandinavian distribution; includes at least eight species native to Swedish Lapland or northern Norway.*

**Copy seen:** DLC; MH-Z.

**27246. WALLENGREN, HANS DANIEL JOHAN, 1823-1894.** Revision af Skandinaviens Tipulidae. (Entomologisk tidskrift, 1881, pub. 1882, Årg. 2, häft. 4, p. 177-208, 219; 1882, Årg. 3, häft. 1-2, p. 13-30) **Title tr.:** Revision of Scandinavian Tipulidae.

*Contains a critical revision of nemocerous dipters of the fam. Tipulidae, found in Scandinavia, with a synopsis of 32 genera and an enumeration of 185 species, including some native to Swedish Lapland and northern Norway. Summary in French.*

**Copy seen:** DLC; MH-Z.

**27247. WALLENGREN, HANS DANIEL JOHAN, 1823-1894.** Revision af släktet *Corisa* Latr. beträffande de Skandinaviska arter. (Entomologisk tidskrift, 1894. Årg. 15, häft. 1-2, p. 129-64) **Title tr.:** Revision of Scandinavian species of the genus *Corisa* Latr.

*Contains a critical revision of hemipterous genus Corisa, with keys to the subgenera and species, descriptions of 29 species, synonymy, critical notes and data on distribution; includes at least nine species native to the northern regions of Scandinavia and Russian Lapland.* **Copy seen:** DLC; MH-Z.

**27248. WALLENGREN, HANS DANIEL JOHAN, 1823-1894.** Skandinaviens arter af Tineidgruppen Lithocolletidae (Staint.) (Entomologisk tidskrift, 1883. Årg. 4, häft. 3-4, p. 195-212, 226) **Title tr.:** Scandinavian species of the tineid group Lithocolletidae (Staint.).

*Contains a survey of Scandinavian representatives of lepidopterous fam. Tineidae, group Lithocolletidae, with description of the family and 34 species of the gen. Lithocolletis, synonymy, critical notes and data on larvae and their host plants; includes at least one species L. spinotella native to Lapland and northern Norway. Summary in French.*

**Copy seen:** DLC; MH-Z.

**27249. WALLENGREN, HANS DANIEL JOHAN, 1823-1894.** Skandinaviens arter af Tineidgruppen Plutellidae (Staint.) (Entomologisk tidskrift, 1880. Årg. 1, häft. 2, p. 53-63) **Title tr.:** Scandinavian species of the tineid group Plutellidae (Staint.).

*Contains a table for the determination of eight genera (four described as new) of the fam. Plutellidae and description of twenty species, including Caenacobicingulata and C. senilella native to Swedish Lapland and Finnmark, Norway.*

**Copy seen:** DLC; MH-Z.

**27250. WALLENGREN, HANS DANIEL JOHAN, 1823-1894.** Skandinaviens arter af Trichopter-familjen Apataniidae. (Entomologisk tidskrift, 1886. Årg. 7, häft. 2, p. 73-80) **Title tr.:** Scandinavian species of Trichopterous family Apataniidae.

*Contains a description of trichopterous fam. Apataniidae and four species of genus Apatania, including A. inornata n. sp. native to Lapland, and two other species from the same region and northern Norway.*

**Copy seen:** DLC; MH-Z.

**27251. WALLENGREN, HANS DANIEL JOHAN, 1823-1894.** Skandinaviens Conchylididae. (Entomologisk tidskrift, 1881. Årg. 2, häft. 3, p. 137-44) **Title tr.:** Scandinavian Conchylididae.

*Contains descriptions of 11 tortricoid moths of the genus Conchylis and 21 of Coccyz, including at least seven species from Swedish Lapland and northern Norway.* **Copy seen:** DLC; MH-Z.

**27252. WALLENGREN, HANS DANIEL JOHAN, 1823-1894.** Skandinaviens med ögonlock försedda Tineider. (Tineae operculatae). (Entomologisk tidskrift, 1881. Årg. 2, häft. 3, p. 124-36, 174) **Title tr.:** Scandinavian eye-lidded tineids. (Tineae operculatae).

*Contains a critical survey of Scandinavian species of cloth-moths (Tineidae), with a key to six genera and brief descriptions of 48 species, also data on larvae and their host plants. Summary in French.* **Copy seen:** DLC; MH-Z.

**27253. WALLENGREN, HANS DANIEL JOHAN, 1823-1894.** Skandinaviens Micropterygides. (Entomologisk tidskrift, 1883. Årg. 4, häft. 3-4, p. 213-16, 226) **Title tr.:** Scandinavian Micropterygides.

*Contains the description of lepidopterous fam. Micropterygidae and five*

Scandinavian species of the general *Eriocephala* and four of *Micropterix*, including *M. unimaculella* native to Lapland and Finnmark, Norway. Summary in French.

**Copy seen:** DLC; MH-Z.

**27254. WALLENGREN, HANS DANIEL JOHAN, 1823-1894.** Skandinavien vecklarefjärilar. (Entomologisk tidskrift, 1888, Årg. 9, häft 3-4, p. 159-98; 1889, Årg. 10, häft. 1, p. 17-32, häft. 2, p. 49-64, häft. 3, p. 97-112; 1890, Årg. 11, häft. 3, p. 145-94) **Title tr.:** Scandinavian tortricodean moths.

Contains a critical revision of Scandinavian species of tortricodean moths of five families, with keys to the families, genera and species, synonymy, and brief descriptions of all known species and many varieties, including many representative of northern regions of Scandinavia.

**Copy seen:** DLC; MH-Z.

**WALLENGREN, HANS DANIEL JOHAN, 1823-1894,** see also Tjeder, B. Revision Neuroptera & Mecoptera. 1940. No. 26740.

**WALLENGREN, HANS DANIEL JOHAN, 1823-1894,** see also Zeller, P. C. Skandinavien fjädermott. 1867. No. 27556.

**27255. WALLENIUS, I. M.** Maantieteellistä retkeltä kesällä 1905, II. Siilastupa-Kemi. (Terra, 1907, v. 19, p. 49-57, 127-35; 1908, v. 20, p. 57-68, illus.) **Title tr.:** The Geographical Society excursion during the summer of 1905, II. Siilastupa-Kemi.

Account of a river trip in small boats through northern Finland, with geological and biological remarks on the fjelds (arctic hills) and rivers, and note of "kirsipalsa" (frozen peat mounds) on the river banks.

**Copy seen:** DLC.

**27256. WALLENIUS, KURT MARTTI, 1893-**, and **A. HAMALAINEN.** Lapin sota 1939-40. Helsingissä Kustannusosakeyhtiö Otava, 1940. 22 p. and 72 p. of illus., 2 fold. maps. **Title tr.:** The war in Lapland during 1939-1940.

Contains the story in text and pictures of the three-month so-called "winter war" in northern Finland following the Russian invasion in Nov. 1939. Photographs illustrate Finnish combatants: clothing, transportation (dogs, reindeer, skis, etc.) operations, medical care, etc.

**Copy seen:** DLC.

**WALTERS, VLADIMIR,** see Scholander, P. F., & others. Adaptation to cold mammals & birds. 1950. No. 25976.

**WALTERS, VLADIMIR,** see also Scholander, P. F., & others. Body insulation mammals & birds. 1950. No. 25977.

**WALTERS, VLADIMIR,** see also Scholander, P. F., & others. Heat regulation mammals & birds. 1950. No. 25978.

**27257. WALTHER, K.** Bekleidung und Körperreinigung. (In: S. Handloser, ed. Wehrhygiene, Berlin 1944, p. 341-54) **Title tr.:** Clothing and body-cleansing.

Contains three sections: (A) the heat regulation of the soldier during exertion; normal and exceptional heat production; heat-release, radiation, conduction, and heat release through water evaporation; clothing, etc. (B) Military clothing depending on the season, climate and task; general requirements on clothing and footwear; qualitative and hygienic requirements of clothing; porosity, elasticity, thermal isolation; water repellence; evaporation area; heat-conductivity and radiation; cleaning of clothes; composition of cloth used for uniforms, etc., in the German army, navy and air force; the individual pieces of uniform in World War I and II; special winter clothing (p. 351-52). (C) Cleansing of the body (including oral hygiene) in peace and war. Hygienic evaluation of bathing places and swimming facilities. Bibliography (3 items).

**Copy seen:** DLC.

**27258. WALTON, W. G.** Game in the Hudson Bay country. (American wildlife, July 1920. v. 9, no. 3, p. 18-19) A missionary - game warden of northern Quebec remarks on the need of game conservation to aid the Eskimo and Indian economy need of a refuge for the geese of Hudson Bay; notes the disappearance of eider duck formerly used as food and clothing; also comments on various other game animals and birds.

**Copy seen:** DI.

**27259. WARD, W. H.** Baffin bivouac. (C. I. L. oval, Apr. 1951. v. 20, no. 2, p. 14-16, illus.)

Popular account by one of the glaciologists, of P. D. Baird's Baffin Island Expedition 1950 for the Arctic Institute of North America; noting its flight to Clyde Inlet May 15-20, work of its various parties, glaciologists and meteorologists, biologists, mountaineers, geologists; and (especially) contribution

of modern scientific-industrial products to equipment and facilities of the expedition.

**Copy seen:** CaMAI.

**27260. WARD, W. H.** The glaciological studies of the Baffin Island Expedition, 1950, part II. The physics of deglaciation in central Baffin Island. (Journal of glaciology, Mar. 1952. v. 2, no. 11, p. 9-23, illus., plates, sketch map). From a paper read at a meeting of the International Commission on Snow and Ice, Brussels, 1951.

Contains discussion of "the shearing and ablation of 'cold' ice that leads to the formation of ablation and end moraines and the characteristic form of the S. E. edge of the Barnes Ice Cap. Some evidence suggests the existence of considerable areas of dead glacier ice extending well beyond the current moraines and completely insulated from melting by glacial debris. This debris consists of old moraines whose relief has been inverted and subdued."—Author's abstract.

Appendix (p. 22-23): Moraine plant succession at the edge of the ice cap, by M. A. Hale, who concludes "that the last stable position of the S. E. edge of the icecap occurred about 1860 and has been followed by retreat at an average rate of about three meters per year."

**Copy seen:** DLC.

**27261. WARD, W. H.** The glaciological studies of the Baffin Island Expedition, 1950, part III. Equipment and techniques. (Journal of glaciology, Nov. 1952. v. 2, no. 12, p. 115-21, illus., diags.)

"A thermo-electric boring rig which achieved a maximum penetration of only 70 ft. due to low temperature and imperviousness of the ice is described. Thirty kw. would be needed to penetrate the ice with this equipment at a depth of 1000 ft. Mechanical drilling and temperature measurement in cold rock and ice are discussed. Cold ice may be drilled with a saw toothed coring tool, either dry or with a non-freezing liquid to flush the ice cuttings. Thermistors were used for the remote temperature measurements. The paper and pencil technique of crystal rubbings commonly used on temperate glaciers proved unsatisfactory on cold ice, since satisfactory rubbings can only be made on melting ice.—SIPRE. Bibliography (7 items).

**Copy seen:** DGS; DLC.

**27262. WARD, W. H.** Glaciology. (In: Baird, P. D., and others. Baffin Island

Expedition, 1950. Pub. in: Arctic, Dec. 1950. v. 3, p. 141-43, illus.)

Brief preliminary report describing the Barnes Ice Cap (69°35'-70°30' N, 71°50'-74°30' W.) in the center of Baffin Island; it is about 145 km. long NW.-SE., up to 56 km. wide, rises from about 460 m. to 1130 m.; and appears to have a thickness of about 600 m.

**Copy seen:** DAI; DLC.

**27263. WARD, W. H.** A note on elevated strandlines of Frobisher Bay, Baffin Island. (Geographical review, Oct. 1952. v. 42, no. 4, p. 651)

Contains challenge of view expressed by S. A. Wengerd, q. v. On the basis of two crossings by sea and one by air while a member of the Baffin Island Expedition of 1950, the author doubts that the strandlines of Frobisher Bay, or of the other bays along the east coast of Baffin Island, are necessarily indications of sea levels or uplift of land. He suggests that these strandlines may have been formed by glaciers cutting off bays and damming up their water, which subsequently changed levels independently of the sea; such phenomena occurring at present, in other places, are quoted in support.

**Copy seen:** DLC.

**27264. WARDLE, ROBERT ARNOLD, and others.** Lühe's "*Diphyllobothrium*" (Cestoda). (Journal of parasitology, Aug. 1947. v. 33, p. 319-30, incl. 2 plates) Other authors: J. A. McLeod and I. E. Stewart.

Taxonomic discussion of an older, large genus of tapeworms, from part of which the authors establish a new genus, *Cardicephalus* for the four species found in seals and sea lions. Bibliography (62 items).

This paper is criticised in H. W. Stunkard's *Pseudophyllidean cestodes*, etc., 1948, q. v. **Copy seen:** DSI-M.

**27265. WARFIELD, R. S., and F. A. RUTLEDGE.** Investigation of Kasna Greek copper prospect, Lake Kontrashbuna, Lake Clark region, Alaska. [Washington, D. C.] 1951. 2 p. l., 10 p. illus., 5 plates (3 maps). (U.S. Bureau of Mines. Report of investigations 4828) Mimeographed.

Contains a brief report of the geographic and geologic setting of the prospect, located at about 60°10' N. 154°05' W. The ore bodies are contact-replacement deposits in Devonian limestone. Chalcopyrite occurs in lenses, veins and disse-

nated throughout the zone in association with hematite, amphibole, chlorite, calcite and quartz. Ore analyses are included.

**Copy seen:** DGS.

**27266. WARLOE, HANS, 1852-1939.** Nye fund og findesteder, Hemiptera. (Norsk entomologisk tidsskrift, 1926, pub. 1927. Bd. 2, hefte 3, p. 153-56) **Title tr.:** New finds or new localities, Hemiptera.

**Contains** a list of nine bugs new to the fauna of Norway, including *Nysius ericae* var. *obscuratus* found by H. Lindberg in Finnmark, and another list of 31 species new to various regions of Norway, including *Acanthia pallipes* collected in Alten, Finnmark.

**Copy seen:** DA; MH-Z.

**27267. WARMING, EUGENIUS, 1841-1924.** Den danske botaniske literatur fra de ældste tider til 1880. (Botanisk tidsskrift, 1880-81. Bd. 12, p. 42-131, 158-238) **Title tr.:** Danish botanical literature from the oldest times to 1880.

**Contains** a bio-bibliographical study of Danish botanical literature; brief biographical data on about 300 Danish botanists with lists of their works; includes many works on arctic flora and vegetation, chiefly of Scandinavia; two supplements to this work were published by J. C. Bay, Tillaeg til Den danske botaniske literatur, etc., I-II, 1890-92, q. v.

**Copy seen:** DLC; MH-A.

**WARTHIN, THOMAS A.,** see Thomas, C. B., & T. A. Warthin. Response dogs experimental hypertension to cold. 1940. No. 26670.

**27268. WASHBURN, ALBERT LINCOLN, 1911-** . Foresta Hodgson Wood, Valerie Wood, Maurice King. (Arctic, Dec. 1951. v. 4, no. 3, p. 223-26, illus.)

Biographical sketch and tribute to the achievements of three members of the Arctic Institute's research project "Snow cornice." The party was lost on a flight from the research station in the Saint Elias Mountains to the base camp at Yakutat, Alaska, July 27, 1951.

**Copy seen:** DLC.

**27269. WASHBURN, ALBERT LINCOLN, 1911-** . Geography and arctic lands. (In: Taylor, Thomas Griffith. Geography in the Twentieth Century, 1951. p. 267-87, map)

Survey of the physical features, means of transportation (ships, ice-breakers, sledges, snowmobiles, aircraft) and research stations in the Arctic, as determi-

nants in the development of arctic research; and a succinct statement of present unsolved problems. Bibliography (11 items).

**Copy seen:** DLC.

**27270. WASHBURN, ALBERT LINCOLN, 1911-** . Patterned ground. (Revue canadienne de géographie, juillet-oct. 1950. v. 4, p. 5-59, 15 plates)

**Gives** a terminology and classification of the phenomena of polygonal soils, stone rings, stripes and nets and other solifluction forms; states hypotheses for their origin including multigelation, expansion due to freezing or absorption, contraction, convection, weathering, cryostatic (which the author believes worthy of more attention), frostwedging, artesian pressure, rillwork, and solifluction; concludes that forms which may appear to be similar may originate in various ways, and that as a whole patterned ground is of polygenetic origin. Observations made on Banks and Victoria Islands in the Western Canadian Arctic form the basis of this study. Bibliography (64 items).

**Copy seen:** DLC.

**WASHBURN, ALBERT LINCOLN, 1911-** , see also Kaufman, F. He has Eskimos guessing. 1950. No. 23169.

**27271. WASHBURN, HENRY BRADFORD, 1910-** . Mount McKinley and the Alaska Range in literature; a descriptive bibliography. Special advance edition prepared for the Alaska Science Conference to be held at Mount McKinley National Park, Alaska, September 1951. Boston, Museum of Science, 1951.

**Contains** 264 references to books, papers, and newspaper articles, with critical analyses and evaluations. Appended (p. 79-80) is text of the Act of the Congress, Feb. 26, 1917, establishing Mount McKinley National Park, and (p. 81-88) article by W. A. Dickey *Discoveries in Alaska*, reprinted from the N. Y. Sun Jan. 24, 1897, on his exploration of the region north of Cook Inlet in summer 1896, noting the great peak, and naming it Mount McKinley.

**Copy seen:** CaMAI.

**27272. WASHBURN, HENRY BRADFORD, 1910-** . Mount McKinley: the west buttress. 1951. (American alpine journal, 1952. v. 8, p. 213-26, 4 plates)

**Contains** an account of the ascent of Mt. McKinley, July 10, 1951, by way of the west buttress to the north peak.

Concludes that this is a shorter, safer and easier climb than the Muldrow glacier route. **Copy seen:** DGS.

**WASHBURN, HENRY BRADFORD, 1910-**, see also Farquhar, F. P. Bradford Washburn's photographs. 1950. No. 21742.

**27273. WASHINGTON NEWS-LETTER.** Washington, D. C. Weekly mimeographed newsletter (about 5 l.) prepared by M. L. Council, secretary to E. L. (Bob) Bartlett, Delegate to Congress from Alaska, and issued from Rep. Bartlett's office.

Contains current information on House and Senate legislation and Committee work, also that of federal government agencies relating to Alaska: data on statehood, appropriations, public works, housing, fisheries, etc.

**File seen:** CaMAI (1948-52).

**WASHINGTON (STATE) UNIVERSITY. Fisheries Research Institute,** see Thompson, W. F. Effect of fishing on stocks of halibut in the Pacific. 1950. No. 26682.

**27274. WASMUND, JAMES A.** Propulsion & auxiliary machinery in "Wind" class ice-breakers. (Engineering journal, Apr. 1950. v. 33, p. 271-75, illus., diags.)

Discussion of design requirements, and operation of American vessels; description of their hull, power plant, power requirements, speed regulation, auxiliary power plant, "heeling" pumps, and steering gear; with statistics of production and disposal of "Wind" class vessels.

**Copy seen:** DGS.

**27275. WATKINS, EDWIN ARTHUR.** A dictionary of the Cree Language as spoken by the Indians in the Provinces of Quebec, Ontario, Manitoba, Saskatchewan and Alberta, based upon the foundation laid by Rev. E. A. Watkins 1865, C. M. S. Missionary; revised, enriched and brought up to date by the late Ven. J. A. Mackay; edited by Ven. R. Faries. Consisting of part I, English-Cree; Part II, Cree-English. Toronto, Church of England in Canada, 1938. ix, 530 p.

Contains an introductory section on orthography, pronunciation, syntax, and the main dialects of the Cree. The English-Cree section of the dictionary is edited by R. Faries, the Cree-English by E. Ahenaken, both familiar with the Cree language from their childhood.

J. G. Anderson, Bishop of Mousouee advised on the dialect spoken in his diocese. This work is a revision of Watkins' (the first) *Dictionary of the Cree language*, London 1865 (xxiv, 460 p.).

**Copy seen:** DLC (both editions).

**WATKINS, HENRY GEORGE, 1907-1932,** see Lamb, H. H. Estimating remoteness cloud features. 1938. No. 23617.

**27276. WATKINS, J. A.** The Alaskan Eskimo; the prevalence of disease and the sanitary conditions of the villages along arctic coast. (American journal of public health, 1914. v. 4, p. 643-48)

Contains results of a study (while author was medical officer during 1913-14 cruise of the U. S. Revenue Cutter *Bear*) in 14 Eskimo villages along the North Alaska coast and on St. Lawrence, King and Diomed Islands, with altogether some 2,200 inhabitants. Eskimos' susceptibility to diseases of civilization and traditional medical treatments are discussed; dwellings, waste disposal, food customs and diet are described; death rate noted. The 281 cases treated by the author are classified and tabulated, with eye diseases, tuberculosis and respiratory diseases being the most numerous.

**Copy seen:** DLC.

**27277. WATSON, JESSIE W.** The Mackenzie basin. (Geographical magazine, Feb. 1952. v. 24, no. 10, p. 483-91, illus., maps)

Contains a description of the area, partly as seen from the air, with sections on the middle Peace River down to Goldfields on Lake Athabaska; the Fitzgerald Portage, activities and recent developments there; Fort Smith; Hay River on Great Slave Lake; Yellowknife; the Lower Mackenzie basin. Economic aspects and the recent development of the area are particularly stressed.

**Copy seen:** DLC.

**27278. WAUGH, DOUGLAS.** Effects of continuous exposure to cold on organ weights, blood and urine chemistry of rabbits. (American journal of physiology, Mar. 1952. v. 168, p. 698-703, 4 tables)

Contains a study on partly shaved, unilaterally nephrectomized animals, exposed to subzero temperatures for 20 days. Only insignificant increases in heart and kidney weights and alteration of the serum protein patterns were observed in the refrigerated group; no

changes in blood urea nitrogen, erythrocyte sedimentation rate, erythrocyt, leucocrit were observed during exposure and the animals did not show evidence of "adaptation diseases." Bibliography (13 items).  
**Copy seen:** DLC.

**27279. WAXELL, SVEN LARSSON, 1701-1762.** The American expedition. London, W. Hodge, [1952]. 236 p. plate, port. maps (part fold.)

Translated from the Danish edition by M. A. Michael, with an introduction (p. 11-35) on the background of the expedition, and an appendix (p. 213-31) on Kamchatka and the Kamchadals in Waxell's time.

**Copy seen:** CaMAI; DLC.

**27280. WAXELL, SVEN LARSSON, 1701-1762.** Vitus Berings eventyrlige opdagelse 1733-1743, skildret af hans rejsefælle og første officer. Forord af Hakon Mielche; med uddrag af A. J. Andrejef's indledning til den russiske udg. København, Rosenkilde og Bagger, 1948. 139 p., plates, fold. maps. **Title tr.:** Vitus Bering's adventurous voyage of discovery 1733-1743, portrayed by his fellow voyager and first officer. Preface by Hakon Mielche; with an extract from A. Andreev's introduction to the Russian edition.

Translated by Johan Skalberg from the original German ms., now in Publicnaia biblioteka, Leningrad. Also published in Russian (see item following) and English (above).  
**Copy seen:** DLC.

**27281. WAXELL, SVEN LARSSON, 1701-1762.** Vtoraiâ Kamchatskaia ékspeditsiia Vitusa Beringa; perevod s rukopisi na nemetskom yazıke fl. I. Bronshtefna; pod red. i s predisl. A. I. Andreeva. Leningrad, Izd-vo Glavsevmorputi, 1940. 127 p., illus., maps (part fold.) facsim. **Title tr.:** The Second Kamchatka Expedition of Vitus Bering; translation from the manuscript in German by fl. I. Bronshtefn; edited with an introduction by A. I. Andreev.

Account of the second Bering expedition, 1733-1741, by one of its participants, and after Bering's death, commander of the vessel *Sr. Petr*. The introduction contains the story of the manuscript (published here for the first time), and a biography of Waxell with an appreciation of his work. The journal includes sections on: the preparation, composition, scientific personnel and crew of the expedition; its aims: (1) search for a

passage from the Russian Arctic into the Pacific Ocean; (2) search for a route to Japan and clarification of Japan's location in relation to Kamchatka; (3) discovery of new places and islands in America. The itinerary is given, with descriptions of Tobolsk, Yakutsk, Okhotsk, Petropavlovsk and other settlements. Then follow accounts of the Japanese expedition; winter in Kamchatka; voyage to the northwest American coast in the summer of 1741, on which the author accompanied Bering on the *Sr. Petr*; description of Bering Island and life there during the wintering of 1741-42, in the course of which Bering died; activities on Kamchatka, description of its location, geography; natural resources; the inhabitants, their occupation and habits; common animals and plants. Some marine and terrestrial birds and mammals of Bering Island are described, including the now extinct sea cow (with illustrations), whose meat, according to the author, saved the expedition from scurvy and death.

This work was published in Danish translation from the original manuscript, also in English translation from the Danish edition (see items above).

**Copy seen:** DLC.

**WAXELL, SVEN LARSSON, 1701-1762,** see also Büchner, E. Abbildungen d. nordischen Seekuh. 1891. No. 21004.

**27282. WAYBURN, EDGAR.** Immersion hypothermia. (Archives of internal medicine, Jan. 1947. v. 79, p. 77-91)

Contains case report of six fliers who suffered from cold immersion; four showed transient electrocardiographic abnormalities, one abnormalities of blood chemistry; the pathologic and clinical picture is discussed; application of warmth, hot drinks, and blood plasma was given, and given as soon as possible; the use of drugs was avoided in the treatment of these patients.

**Copy seen:** DLC.

**27283. WEAVER, ALBERT, 1917- , and M. SCHEIN.** High altitude cosmic ray work. (Research reviews, Feb. 1949. p. 1-8, illus.)

Survey of the characteristics of cosmic rays; their interest to the various fields of science, and the type of research which has been done on them; with mention of an expedition to the near-top of Mt. McKinley by the authors (date not given).  
**Copy seen:** DSI-M.

**27284. WEAVER, JOHN C.** Ost-vest via nordpolen. (Kulturgeografi, Juni, 1951. Årg. 3, nr. 3, p. 225-32, map) **Title tr.:** East-west via the North Pole.

Written in English by professor of geography, University of Minnesota and translated into Danish for this journal. In an historical sketch of exploration of the circumpolar seas between Eurasia and North America, author discusses flight in the Arctic, the mineral- and oil-bearing regions and resources in northern Canada, northern Alaska and northern U.S.S.R.; agricultural possibilities in these regions; and trans-arctic air routes between important points in Asia and America (indicated on map). **Copy seen:** DLC.

**27285. WEBB, PAUL.** Air temperatures in respiratory tracts of resting subjects in cold. (Journal of applied physiology, 1951. v. 4, no. 5, p. 378-82, 2 fig.)

*Contains* a description of a rapid method for recording changing air temperatures and data on the temperature of inspired and expired air, from the front, middle and back nasal passages. Cold inspired air, was found to warm rapidly in the nose; expired air also gives up heat as it approaches the outside; its temperature is below 37° C. Bibliography (14 items).

**Copy seen:** DLC.

**27286. WEBER, HEINRICH.** Die Entwicklung der physikalischen Geographie der Nord-Polarländer bis auf Chooies Zeiten. München, T. Ackermann, 1898. 3 p. l., 250 p. (Münchener geographische Studien . . . 4. Stück) **Title tr.:** The evolution of physical geography of the North Polar lands up to the time of Cook.

A history of our knowledge of the Arctic, beginning with Homer. Author deals with all aspects of physical geography in the circumpolar region, the evolution of various concepts and the way these were affected by progressing exploration to the end of the 18th century.

**Copy seen:** DLC.

**27287. WEBER, NEAL ALBERT, 1908-** Late summer invertebrates, mostly insect, of the Alaskan arctic slope. (Entomological news, May 1949. v. 60, p. 118-28)

List, with localities, of one leech, one oligochaete worm, five molluscs, 18 spiders, four centipedes, and 64 species of other insects, collected at Point Barrow or near Anaktuvuk Pass on the north front of the Brooks Range, Aug.-Sept. 1948.

**Copy seen:** DSI-M.

**27288. WEBER, NEAL ALBERT, 1908-** Opportunities for entomological research in the Arctic. (Entomological news, Dec. 1948. v. 59, p. 253-57)

Notes on insects (and arachnids) observed late in the summer season in northern Alaska and remarks on the great need for insect study in that region.

**Copy seen:** DSI-M.

**27289. WEBER, NEAL ALBERT, 1908-** A survey of the insects and related arthropods of arctic Alaska, part 1. (American Entomological Society. Transactions, Sept. 1950. v. 76, p. 147-206, 7 plates)

Based on work sponsored by the Arctic Institute of North America with funds provided by the U. S. Office of Naval Research. Brief introductory remarks on the author's reconnaissance in 1948 from the Brooks Range northward to the arctic coast; on the origin of arctic insects, the Brooks Range as a barrier since the close of the Cretaceous period, migratory routes, the nature of the fauna, and on the relation of insects with plants, fishes and mammals. Lists with localities and a few field notes, of the spiders, mites and ticks, the centipedes and insects, altogether 102 species. Bibliography (51 items).

**Copy seen:** DSI-M.

**27290. WEBSTER, A. P.** Caloric requirement of man in cold climates: theoretical considerations. (Journal of applied physiology, 1952. v. 5, no. 3, p. 134-42, 3 fig., tables)

*Contains* a mathematical study of the heat necessary to warm and humidify the inspired air at various (including low) temperatures, and of the fraction of the total energy metabolism involved in the process. Tables and graphs show the increase in caloric requirement (food intake) of man which might be expected (in cold climates) at various air temperature.

**Copy seen:** DLC.

**27291. WEBSTER, C. J.** The growth of the Soviet Arctic and subarctic. (Arctic, May 1951. v. 4, no. 1, p. 27-45, 3 maps)

*Contains* a brief summary of the Soviet concept of the Arctic and sub-Arctic, and the evolution of that of the far North. Then follows author's account of that part of European and Asiatic U.S.S.R. which lies north of 60° N. lat. The Soviet development of transportation, mining, fisheries, timber, furs and game, and agriculture is traced. Popula-

tion growth, shifts and present size are analyzed on the basis of 1926, 1939, and 1947 data for areas and populated places. Extensive sources are cited in footnotes. *Maps* show (1) administrative-territorial divisions with boundary of southern limit of Krainiy Sever (far North), (2) railroad lines, and (3) ethnography (present-day areas of northern native peoples).

*Copy seen:* DAI; DLC.

**27292. WEBSTER, C. J.** The Russian arctic sea lane: endeavour and achievement. (Arctic, Dec. 1952. v. 5, no. 4, p. 241-49)

Contains an analysis of the book *The Northern Sea Route*, 1952, by Terence Armstrong, q. v. The difficulties of a clear historical presentation of early Russian and foreign advances into the area are stressed and so is the one-sided or slanted character of some official Russian data used. The book is, in the opinion of the reviewer, written "with scrupulous care and artistry. The selection of statistics has been most judicious, . . . and the sources purged of their extravagance." *Copy seen:* DLC.

**27293. WEBSTER, J. H.** Eskimos glaze their sled runners. (Natural history, Jan. 1950. v. 59, p. 36-37, illus.)

Brief note to accompany photographs of the icing of sledge runners.

*Copy seen:* DGS; DSI-M.

**27294. WEBSTER, J. H.** Fishing under the ice. (Natural history, Mar. 1950. v. 59, p. 140-41, illus.)

Five photographs illustrating the fishing methods of the Copper Eskimos of the Western Canadian Arctic are accompanied by brief captions.

*Copy seen:* DGS; DSI-M.

**27295. WEBSTER, JACKSON DAN, 1919-** . Altitudinal zonation of birds in Southeastern Alaska. (Murrelet, May-Aug. 1950. v. 31, p. 22-26, incl. diagr.)

Characterization of habitat and avifaunas of the Canadian zone (sea level to 1,500 feet), Hudsonian zone (1,500-2,500 feet) and arctic-alpine zone (above 2,500 feet). Bibliography (16 items).

*Copy seen:* DSI-M.

**27296. WEBSTER, JACKSON DAN, 1919-** . Corrections concerning data on Alaskan birds. (Condor, Jan. 1951. v. 53, p. 54)

Author's record of redstart in Southeast Alaska is the second not a first record as

stated in his *Notes on the birds of Wrangell*, etc., 1950, q. v. Other errors are noted in earlier papers misnaming invertebrate species in connection with the black oyster-catcher.

*Copy seen:* DLC; DSI-M.

**27297. WEBSTER, JACKSON DAN, 1919-** . Notes on the birds of Wrangell and vicinity, Southeastern Alaska. (Condor, Jan. 1950. v. 52, p. 32-38)

On the basis of observations made during Mar.-Aug. 1946, mainly in the Canadian zone (some in Hudsonian), field notes on 51 species are given. The records are believed to be worthwhile for the area as a whole, in which much avifaunal work has already been done, and to be a contribution to the avifauna of the Stikine River above Point Rothsay. Bibliography (19 items).

*Copy seen:* DSI-M.

**27298. WEDOW, HELMUTH, and others.** Interim report on an appraisal of the uranium possibilities of Alaska. [Washington, D. C.] 1951. 5 p. l., 124 numb. l., 8 fold. maps, fold. tables. (U.S. Geological Survey. Trace elements memorandum report 235) Mimeographed. Other authors: M. G. White and R. M. Moxham.

Contains "summaries of the geology and mineral deposits, and appraisals of the uranium possibilities of the various regions of Alaska . . . based on known occurrences of radioactive materials and geologic criteria that suggest the presence of uranium . . . Seward Peninsula - Kobuk region and southeastern Alaska followed by the Alaska Railroad, Gulf of Alaska and lower Yukon-Kuskokwim regions are perhaps the more promising regions . . ." Bibliography (140 items).

*Copy seen:* DGS.

**WEGENER, ALFRED LOTHAR, 1880-1930,** see Köppen, W., & A. L. Wegener. *Klimate d. geologischen Vorzeit. 1924.* No. 23350.

**27299. WEGMANN, C. EUGÈNE, 1896-** . Entwicklungsstufen der Polarforschung. (Polarforschung, 1951. Bd. 3, Jahrg. 21, p. 30-32) *Title tr.:* Developmental stages in polar exploration.

Author envisages three periods of scientific investigation overlapping and not definable by dates: (1) the topographic-geographic exploration, (2) research on dynamic masses, the hydrosphere (including glaciology) and atmosphere, and (3) the dynamic space-form (Raumbild) in

historic perspective (clarification of all arctic phenomena as to beginning, existence and ending, and their interrelationships in time).

*Copy seen:* DGS; DWB.

**27300. WEGMANN, C. EUGÈNE, 1896-** . Trois phases de l'exploration arctique. (Société Neuchateloise des Sciences Naturelles. Bulletin, 1951. sér. 3, t. 74, p. 107-122) *Title tr.:* Three phases of arctic exploration.

Distinguishes a first, exploratory phase to determine the coastlines and physiography of lands and limits of seas and ice-cover; a second of studying the movement and shifting of water, air and ice masses; and a third phase the study of arctic nature in the perspective of geologic history, involving problems of the beginning of arctic characteristics, paleoclimate, and the geology of arctic lands (forms of relief, Tertiary deposits and biogeographic observations); with note on contribution of submarine geology to the study of chronology in arctic geology. Summaries in German and English.

*Copy seen:* DGS.

**27301. WEGMANN, C. EUGÈNE, 1896-** . Zur Feststellung von Landverschiebungen in der Arktis. (Geologische Rundschau, 1943. Bd. 34, p. 236-42, fold. map) *Title tr.:* Establishment of land shifts in the Arctic.

Review and discussion of the contributions by geologists to the theory of continental drift; present land forms and their previous positions in the Arctic which tend to strengthen the theory of drift: Scandinavia, Skandik, Greenland, Svalbard, Canadian Arctic Islands and the related seas. Bibliography (25 items).

*Copy seen:* DLC.

**27302. WEGMANN, C. EUGÈNE, 1896-** . Zwei Bilder zur Entwicklung der Migmatite und ihrer Deutung. (Geologische Rundschau, 1943. Bd. 34, p. 271-74, plate) *Title tr.:* Two illustrations of the development of migmatite and their meaning.

Text to accompany two colored photographs of the beginning stages of transition of pebble-bearing quartzite into granite and gneiss, as found on Amitsoq Island, southwestern Greenland (about 60°29' N. 44°45' W.) with remarks on the controversy over the concept of this as a stage of a migmatitic metamorphic series. Bibliography (7 items).

*Copy seen:* DLC.

**WEGMANN, EUGÈNE, 1896-** , *see also* Victor, P. É., & others. Rapport prélim. 1949. 1950. No. 27104.

**27303. WEHNER, HANS.** Betrachtungen über Strömungsverhältnisse einer wandernden Karmanschen Wirbelstrasse. (Zeitschrift für Meteorologie, 1950. Bd. 4, no. 7-8, p. 248-50, figs., equations). *Title tr.:* Considerations on the flow conditions of a traveling Kármán eddy train.

"A mathematical discussion of the velocity field with periodic rotating vectors some distance from the eddy train. With increasing distance the periodicity is unaffected but the velocity decreases. The phenomena can be detected to lee of Jan Mayen."—*Meteorological abstracts and bibliography*, July 1951, v. 2, no. 7, p. 571.

*Copy seen:* DWB.

**27304. WEHNER, HANS.** Untersuchung mikrobarographischer Wellen auf Jan Mayen. Berlin, Akademie-Verlag, 1949. 56 p., maps, diagrs., tables. (Leipzig. Universität. Geophysikalisches Institut. Veröffentlichungen, Ser. 2, Spezialarbeiten, Bd. 16, heft 1) *Title tr.:* A study of microbarographic waves on Jan Mayen.

Contains an account and explanation of barometric pressure oscillations, often lasting for many hours, and so far observed only on Jan Mayen. Includes sections on the geography of the island; observations and their description; study of observations which are connected with the formation of an eddy track; the eddy track mathematically analyzed; application of the eddy track to observations; evidence of laminar streaming conditions, etc. Appendix with tables. Bibliography (22 items). This paper was reviewed by Martin Rodewald, q. v.

*Copy seen:* DWB.

**WEHNER, HANS,** *see also* Rodewald, M. Wirbelstrasse bei Jan Mayen. 1950. No. 25622.

**27305. WEICKMANN, HELMUT K.** "Biologie" der Schneekristalle. (Umschau, Feb. 15, 1950. Jahrg. 50, p. 116-19, illus., diagrs.) *Title tr.:* The "biology" of snow crystals.

Description of the formation of snow crystals in clouds, their air temperature relationships, and the physics of their growth and form variation.

*Copy seen:* DLC.

**WEICKMANN, HELMUT K.**, *see also* Kampe, H. J., & others. Influence temperature on shape of ice crystals. 1951. 23101.

**27306. WEIDMAN, FRED D.** *Trichina spiralis* in a polar-bear, with notes on trichinosis in cold-blooded animals. (Pathological Society of Philadelphia. Proceedings, 1917. v. 37, p. 28)

A note on an animal from a zoo which apparently brought with him the disease from the wild. Every muscle was riddled with parasites, some alive, some necrotic.

**Copy seen:** DSG.

**27307. WEILER, THEODORE CHRISTLIEB.** The fur trade frontier of Siberia. [New Haven, 1937]. p. 519-36, from *Studies in the science of society*, G. P. Murdock, editor. Yale University Press, 1937, and based on thesis (Ph. D.) to Yale University, 1936.

From literature, the author depicts the chief characteristics of society generally in this arctic area: native population, its dependence on hunting and fishing, penetration of Russian colonists and traders, their exploitation of natives and adaptation to native ways of life, etc. He attempts to show that "fur trade frontier" is a definite type of society and should be added to the classification of types (on basis of maintenance activities) set forth by J. G. Leyburn in his *Frontier folkways*, 1935.

**Copy seen:** DLC.

**WEINBERG, B. P.**, *see* VEINBERG, BORIS PETROVICH, 1871-

**27308. WEINER, DAVID**, and others. Mechanism of cardiac injury in experimental hypothermia. (Federation proceedings, Mar. 1949. v. 8, p. 345) Other authors: Kurt Lange and M. M. A. Gold.

"Rabbits suffering from lowering of body temperature show a reduction in heart rate directly proportional to the fall in body temperature. The P-R interval and Q R S complex show a prolongation roughly proportional to the fall in body temperature... Changes in rate and conduction are exclusively the result of the direct effect of cold."

**Copy seen:** DLC.

**WEINER, DAVID**, *see also* Lange, K., & others. Functional pathology experimental immersion foot. 1948. No. 23645.

**WEINER, DAVID**, *see also* Lange, K., & others. Studies mechanism cardiac injury hypothermia. 1949. No. 23647.

**27309. WEINTZ, FRANZ.** Carl von Linné in lappischer Tracht. (Zeitschrift für Ethnologie, 1910. Bd. 42, p. 11-14, 2 illus.) **Title tr.:** Carl von Linné in Lappish dress.

Contains remarks on an oil painting by Martin Hoffman, 1737, which shows the Swedish botanist Linné wearing a genuine Lapp costume, with several utensils (among them a drum) attached to the girdle. Linné visited Lapland in 1732.

**Copy seen:** DLC; InU.

**27310. WEINITZ, FRANZ.** Die lappische Zaubertrommel in Meiningen. (Zeitschrift für Ethnologie, 1910. Bd. 42, p. 1-11, illus., plate) **Title tr.:** The Lappish magic drum in Meiningen.

Contains description of a Lapp drum, since 1837 in the collections of a local history society in Meiningen (Germany). The drum contains 40 drawings which the author attempts to explain. He describes also the shamanistic practices of the Lapps in general and gives a list of museums in Europe which have some Lapp drums. A short notice by the author on p. 833 indicates that K. B. Wiklund (in *Monde oriental*, 1910, t. 4) criticised this paper, making objections to Weinitz's explanation of drawings on the drum.

**Copy seen:** InU.

**WEISIGER, JAMES R.**, *see* Moritz, A. R., & J. R. Weisiger. Effects cold air on air passage & lungs. 1945. No. 24479.

**27311. WEISS, FRANCIS JOSEPH, 1898-** The Alaskan reindeer industry. [Washington, D. C., National Planning Association, 1941]. iii, 82 numb. leaves, diags. Photoprinted from type-written copy.

Contains an outline of the politico-historical background of the introduction of the reindeer into Alaska; biological data; technical data regarding the meat, hide, milk and the by-products of the animal; discussion of such economic aspects as herd management, utilization of reindeer by Alaskan natives; role of government. Bibliography (162 items).

**Copy seen:** DLC.

**27312. WEISS, GOTTFRIED, 1911-** Das arktische Jahr; eine Überwinterung in Nordostgrönland. Braunschweig, G. Westermann [1949]. 162, [1] p., incl. 34 plates, illus., 2 maps, plans **Title tr.:** The arctic year; a wintering in Northeast Greenland.

Account of eighteen-man German Navy Meteorological-Aerological expedition to establish a station on northeastern Greenland; the trip thither on the fishing vessel *Sachsen*, the wintering on Sabine Island, Aug. 1942-June 1943, and return to Europe by plane after discovery of the party by Danish nationals. Includes descriptions of the *Sachsen*, winter quarters aboard ship, the party's activities, the seasons and their changing beauty; remarks on the wildlife, weather, dog sledging, etc.; sketch of a reconnaissance flight in July 1942 from Drontheim to East Greenland and along the coast between 72°-76° N. An extract (on the polar night) was published in *Geographische Rundschau*, Dez. 1949, Jahrg. 1, p. 468-69. **Copy seen:** DLC.

**27313. WEISS, GOTTFRIED, 1911-** Ausrüstungserfahrungen von einer Grönlandexpedition. (Polarforschung, 1950, pub. 1951. Bd. 2, Jahrg. 20, p. 328-32) **Title tr.:** Experience with equipment of a Greenland expedition.

Discussion and general descriptions (in some detail) of the prefabricated house (and other houses found in Greenland), the food, its care and storage, the clothing and snow or ice footwear of the German Meteorological Expedition sent to northeastern Greenland, 1942-43.

**Copy seen:** DGS.

**WEISS, LEONARD L.,** see Gentry, R. C., & L. L. Weiss. Preliminary report on stagnant highs. 1944. No. 22061.

**27314. WELD, CHARLES RICHARD, 1813-1869.** The search for Sir John Franklin. A lecture delivered at the Russell Institution. January 15, 1851. London, R. Bentley, 1851. 75 p., front. (fold. map)

Author correlates reports from English and American expeditions then recently and currently engaged in the search for Franklin in the Canadian Arctic, and remarks on various courses possibly taken by the lost explorer on his 1845 expedition to find a Northwest Passage.

**Copy seen:** DLC.

**27315. WELLING, JAMES CLARKE, 1825-1894.** The Bering Sea arbitration; or "Pelagic sealing" juridically considered according to a particular analogy of municipal law. Washington, D. C., The University Press, 1893. 18 p. (Columbian University Studies).

Analysis of Roman law, common law

and modern jurisprudence, to show that a single point of law is involved in problem of sealing rights and conservation; that solution requires "international morality" and cooperation.

**Copy seen:** DLC.

**27316. WELLMAN, WALTER, 1858-1934.** The aerial age; a thousand miles by airship over the Atlantic Ocean; airship voyages over the Polar Sea; the past, the present and the future of aerial navigation. New York, A. R. Keller & Co., 1911. 448 p., front., plates, ports.

A popular account of the journalist-author's plans and attempts to reach the North Pole; his West Spitsbergen expedition of 1894; expedition to Franz Josef Land in the *Frithjof* 1898, and sledging efforts, attempts to reach the North Pole by the airship *America* 1907 and 1909 from northern West Spitsbergen. Includes accounts of building and equipping the *America*, and a broad discussion of the problem of the airship as means of navigation over polar regions and generally.

**Copy seen:** DLC.

**27317. WELLMAN, WALTER, 1858-1934.** The polar airship. Washington, D. C., Judd & Detweiler, 1906. p. [205]-228 incl. illus., tables, diags. Reprinted from the *National geographic magazine*, Apr. 1906.

A description of the dirigible *America* in which author planned to reach the North Pole from a base on Danish Island, off northern West Spitsbergen, an expedition financed by Mr. V. Lawson, principal owner of the *Chicago Record-Herald* and life member of the National Geographic Society. Calculations of route, fuel and time required for the trip, analysis of weather, etc., are given.

**Copy seen:** DLC.

**27318. WELLMAN, WALTER, 1858-1934.** To the Pole by air ship. [Washington, D. C., W. F. Roberts Co., 1909?] 32 p., illus. (incl. port.) text continued on p. 3 of cover, map on p. 4.

Brief account of Wellman-*Chicago Record-Herald* Polar Expedition's attempt to reach the North Pole by airship, 1906-07. Description of the dirigible *America*, its hangar, base at Danish Island (79°40' N. 10°30' E.) off northern West Spitsbergen, attempted (20-mile trial) flight in Sept. 1907; plans for a further attempt.

**Copy seen:** DLC.

**27319. WELLS, HARRY LAURENZ, 1854-** . Alaska, the new Eldorado; its history, its gold fields, its scenery, its routes of travel. Portland, Ore., J. K. Gill Co., 1897. 88 p., front., illus., 19 plates, 2 fold. maps.

Chapters on history, geography, conditions in the Yukon and Alaskan gold fields, routes thither, outfitting prospectors, natives and missions, mining laws.  
**Copy seen:** DLC.

**27320. WELLS, JAMES RALPH, 1893-** , and **P. HEINBECKER.** Further studies on immunity to diphtheria among Central and Polar Eskimos. (Society for Experimental Biology and Medicine. Proceedings, 1932. v. 29, p. 1028-30, tables)

Report on an additional study of eight Eskimo communities, made in 1931. Results of cultivation of throat flora, of Schick and serological tests indicate "that resistance...in these localities depends on the presence of antitoxin and suggest that carrier conditions, as well as latent specific infections are the probable sources of this immunity. Bibliographical footnotes.

**Copy seen:** DSG.

**27321. WELLS, JAMES RALPH, 1893-** , and **E. DIXON.** *Hemophilus influenza* from the throats of Polar Eskimos. (Journal of infectious diseases, 1932. v. 51, p. 412-15, illus.)

Report based on a study of 136 Eskimos from Robertson Bay (77°50' N. lat. northwest Greenland, Dundas Harbour (North Devon Island), Pond Inlet and Pangnirtung (Baffin Island). The isolation of *Hemophilus influenzae* from throat cultures of these four groups of Eskimos is reported and the principal characteristics of five of the strains are given. Four of these five belong to one serological group, corresponding to type "A" of Pittman. The findings indicate that the respiratory flora of the examined Eskimos is very similar to that of persons living in warmer climates, without a great degree of isolation.

**Copy seen:** DSG.

**27322. WELLS, JAMES RALPH, 1893-** , and **P. HEINBECKER.** Immunity studies among Central and Polar Eskimos. (Society for Experimental Biology and Medicine. Proceedings, 1931. v. 28, p. 887-89, tables)

Report based on material and data

collected in 1930 and including cultures and direct smears from throats of 115 individuals, also 19 specimens of sera and 60 Schick tests, representing seven isolated groups of Central and Polar Eskimos of all ages. The data, and the fact that the respiratory flora was found to be similar to that of groups living elsewhere make the authors believe, that the mechanism of the production of immunity to diphtheria among the Eskimos examined, is much the same as it is among people living in other latitudes.

**Copy seen:** DSG.

**27323. WELLS, JAMES RALPH, 1893-** . Occurrence of *Hemophilus influenza* in throats of Polar Eskimos. (Society for Experimental Biology and Medicine. Proceedings, 1932. v. 29, p. 801-802)

Report on a study of material from 115 Central and Polar Eskimos begun in 1930. From cultures of throat flora "18 strains of Gram-negative, hemophilic bacilli, possessing the accepted characteristics of *Hemophilus influenzae* were isolated." This strengthens the author's belief that the respiratory flora of the Eskimos studied, is very similar to that of persons living in warmer climates without a high degree of isolation found in the arctic regions.

**Copy seen:** DSG.

**27324. WELLS, JAMES RALPH, 1893-** . The origin of immunity to diphtheria in Central and Polar Eskimos. I. A study of the throat flora (American journal of hygiene, 1933. v. 18, p. 629-55, illus., tables)

Contains sections on: materials (from 250-275 persons of ten different settlements on Baffin, North Devon and Ellesmere Island and northwest Greenland, consisting of throat cultures, smears, blood sera, Schick test records and various health and epidemiological data: all material collected in 1930 and 1931); bacteriological studies and results; comparison of 1930 with 1931 findings; immunological studies; summary. Conclusions: 329 throat cultures and 301 direct smears examined and the composition of the flora determined, show that the "normal throat flora of these Eskimos is essentially the same" as that of persons in the U. S. A. and Europe. This finding suggests that the Eskimos' flora may have been influenced or determined by contact with foreigners. Several tests also indicate that typical *Carynebacterium diphtheriae* are present in the throat flora of the Eskimos and that

carriers of diphtheria exist among them. Bibliography (24 items).

**Copy seen:** DSG.

**27325. WELLS, JAMES RALPH, 1893-** . The origin of immunity to diphtheria in Central and Polar Eskimos, II. Epidemiological and serological studies (American journal of hygiene, 1933. v. 18, p. 656-73, tables)

*Contains sections on:* material (collected 1930-31; Schick test on 170 Eskimos of various age-groups and blood serum from 58 adults for direct titration of the antitoxin content); serum titrations; epidemiological considerations; habits of living; infectious diseases; discussion; summary. Conclusion: "The serological and epidemiological evidences herein reported, combined with the bacteriological findings already published, all justify the belief that immunity to diphtheria among the Eskimos in question is specific rather than the result of maturation phenomena." Bibliography (47 items).

**Copy seen:** DSG.

**27326. WELLS, JOHN CAMPION.** The gateway to the Polynia; a voyage to Spitzbergen. From the journal of John C. Wells. London, H. S. King & Co., 1873. 2 p. l., [vii]-ix p., 1 l., 355 p., front., illus., plates, fold. map., fold. plan.

Narrative of a whaling trip with Leigh Smith in summer 1872 to West Spitzbergen on the cruiser yacht *Samson* (reaching 80°30' N. 12° E.) which the author accompanied to confirm sea-water temperature observations made in the previous year by Smith. Includes introductory chapter on the history of arctic exploration and needed investigations, and (throughout the narrative) detailed remarks on hydrography, sea and land life, geology, icebergs, etc., observed.

**Copy seen:** DLC.

**27327. WELLS, L. J., and M. ZALESKY.** Effects of low environmental temperature on the reproductive organs of male mammals with annual aspermia. (American journal of anatomy, May 1940. v. 66, no. 3, p. 429-47, plate, table, diagr.)

*Contains account of a study on male ground squirrels, experimentally subjected to low temperatures, to see whether their annual sexual cycle would be modified by such treatment. A constant low (40° C.) temperature transforms the male from a seasonal breeder to one anatomically capable of breeding at any time of the year, provided treatment is begun*

during the mating season; under these conditions, sperm production and large accessory reproductive organs were maintained for more than 12 months. Low temperature treatment (4-18° C.) began during the aspermic period had little effect on the sexual cycle, and light had none. The mechanism by which low environmental temperatures seem to affect the sexual cycle, is discussed. Bibliography (14 items). **Copy seen:** DSG.

**WEN YOU, ROSEMARY,** *see* Sellers, E. A., & R. Wen You. Prevention dietary fatty livers by exposure to cold. 1949. No. 26023.

**27328. WENGERD, SHERMAN ALEXANDER, 1915-** . Elevated strandlines of Frobisher Bay, Baffin Island, Canadian Arctic. (Geographical review, Oct. 1951. v. 41, p. 622-37, incl. 3 plates, 2 maps, diagrs.)

Based on author's observations in 1943, while a member of the U.S. Hydrographic Office party aboard the *Morrissey*. Description is given of the physiographic features and general geology of the region and discussion of mode and age of formation of the eight to twelve strandlines around Frobisher Bay; with conjecture that the area is still out of isostatic adjustment, so that further uplift may be expected. Author's view is challenged by W. H. Ward in *A note on . . . strandlines*, 1952, q. v.

**Copy seen:** DGS; DLC.

**Wenner-Grenn Foundation for Anthropological Research, New York,** *see* Viking Fund . . .

**WENSTRAND, D. E. W.,** *see* Feldt, R. H., & D. E. W. Wenstrand. Cold-pressor test . . . report of observations on 350 subjects. 1942. No. 21754.

**27329. WERENSKIOLD, WERNER, 1883-** . Vind og Breer. (Svensk geografisk årsbok, 1949. v. 25, p. 128-29) **Title tr.:** Wind and glaciers.

"Contrary to established belief that snow blows across mountain ridges and accumulates on the lee to form glaciers or snow fields, the author's observations during seven summers in Spitsbergen were that snow comes with a SE wind and that glaciers are more developed on the E sides. With a west wind, fog and drizzle prevail. Glaciers in Spitsbergen are all receding and precipitation and temperatures are higher than in former years. The difference has been felt more

in lower than in more elevated regions. In the latter the increased snow precipitation balances the warming."—*Meteorological abstracts and bibliography*, Oct. 1952. v. 3, no. 10, p. 1047. Summary in English. **Copy seen:** DLC.

**WERNER, HEINZ, 1890-**, see Lagercrantz, E. *Entwicklungspsychologische Analyse*. 1950. No. 23589.

**27330. WERNER-NIELSEN, J.** Litt macrolepidopterstatistik for Norge. (Entomologisk tidsskrift, 1911. Årg. 32, hæft. 1-2, p. 53-58) **Title tr.:** A few statistics on Macrolepidoptera of Norway.

Contains statistical data on the distribution of 633 species of Macrolepidoptera in 18 geographic regions of Norway, including Nordland, Troms and Finnmark, and the same data for five subdivisions of Macrolepidoptera: Rhopalocera, Sphingae, Bombyceae, Noctuae and Geometrae.

**Copy seen:** DLC; MH-A.

**27331. WESENBURG-LUND, ELISE, 1896-**. The Polychaeta of West Greenland with special reference to the fauna of Norde Strømfjord, Kvane- and Bredefjord. København, C. A. Reitzel, 1950. 171 p., 27 plates (diagr. charts). (Meddelelser om Grønland. Bd. 15, nr. 2)

A monograph forming part of a synopsis of North Atlantic polychaete worms, based on all available literature and on the extensive collection in the Zoological Museum of Copenhagen University. Classified list is presented, with synonymy, references, full notes on occurrences, distribution and other remarks, of over 200 species; tabular presentation of distribution in Davis Strait, Baffin Bay and in certain fiords of West Greenland, with remarks; a series of charts illustrate distribution in the same waters. Bibliography (47 items).

**Copy seen:** DGS; DLC; DSI-M.

**27332. WESSEL, A. B.** Ruger Islands-måken (*Larus hyperboreus*) allikével på Finnmarkskysten? (Norsk ornithologisk tidsskrift, 1935. Ser. 4, nr. 14-15, p. 121-22) **Title tr.:** Does the Iceland gull (*Larus hyperboreus*) after all, breed on the coast of Finnmark?

Note on eggs observed in the Porsanger Fiord region and brief discussion of early writings concerning this gull's nesting place.

**Copy seen:** DI.

**27333. WEST, SAMUEL STEWART, 1909-**. Major shear fractures of Alaska and adjacent regions. (American Geophysical Union. Transactions, Feb. 1951. v. 32, p. 81-86, sketch map)

"Stream directions and shorelines in Alaska, Siberia, and Canada suggest the existence of three major sets of almost perpendicular pairs of shear fractures, which correspond to forces originating (1) in the Beaufort Sea, (2) in the bay of the Arctic Ocean near latitude 80° N. longitude 123° E., and (3) from a direction a few degrees east of north from Bering Strait."—Author's abstract. Bibliography (16 items).

**Copy seen:** DGS.

**27334. WEST, WALTER SCOTT, 1912-**, and M. G. WHITE. The occurrence of zeunerite at Brooks Mountain, Seward Peninsula, Alaska. Washington, D. C., 1952. p. 1, 7 p. 2 maps (1 fold.). (U. S. Geological Survey. Circular 214)

Contains a brief description of the petrologic and structural relations and mineralization of the Brooks Mt. terrain. Granite, and felsic and mafic dikes intrude Cambrian or older black slate and the Port Clarence Paleozoic limestone. The granite and limestone are hydrothermally altered and uranium in the form of zeunerite is concentrated in trace amounts at a few locations. Results of radiometric analyses are included.

**Copy seen:** DGS.

**WEST, WALTER SCOTT, 1912-**, see also White, M. G., & others. Preliminary summary uranium Alaska. 1952. No. 27349.

**27335. WESTBLAD, EINAR.** Notes on hydroids. (Arkiv för zoologi, 1947, pub. 1948. Bd. 39 A, no. 5, p. 1-23, illus., plates 1-3)

Contains in the first part of this paper, data on the organization, reproduction and systematic position of *Boreohydra simplex*, a hydroid first discovered by the author in the Tromsø waters of northern Norway in 1937, then found in many places on the western coast of Norway and in Gullmarsfiord on the Swedish west coast, where its biology and ecology was studied by the author.

**Copy seen:** DSI-M; MH-Z.

**27336. WESTBLAD, EINAR.** On *Meara stichopi* (Bock) Westblad a new representative of Turbellaria archophora. (Arkiv för zoologi, 1950. Andra ser. Bd. 1, häfte 1, p. 43-57, illus., plates 1-2)

Contains a detailed anatomical description of a new parasitic turbellarian. *Meara stichopi*, living in the intestine of a holothurian (sea cucumber) *Stichopus tremulus*, found along the western and northern Scandinavian and Murman coast; data on its systematic position and relationship to the group Turbellaria archoophora.

**Copy seen:** DSI-M; MH-Z.

**27337. WESTBLAD, EINAR.** Studien über skandinavische Turbellaria Acoela. II-V. (Arkiv för zoologi, 1942, Bd. 33A, no. 14, p. 1-48, illus., plates 1-3; (III) 1945, Bd. 36A, no. 5, p. 1-56, illus., plates 1-4; (IV) 1946, Bd. 38A, no. 1, p. 1-56, 42 illus. on p. [1-16], plates 1-3; (V) 1949, Bd. 41 A, no. 7, p. 1-82, illus., plate) **Title tr.:** Studies of Scandinavian Turbellaria Acoela, II-V.

Contains morphological and systematic studies of Scandinavian species of marine flatworms (Turbellaria Acoela) with descriptions, keys to the genera and species and data on geographic distribution; includes descriptions of eight new species native to Tromsø waters, northern Norway. Pt. I does not contain arctic material. **Copy seen:** DSI-M; MH-Z.

**WESTERLUND, H. G.,** see Macfie, H., & H. G. Westerlund. Wasa-wasa trails & treasure. 1951. No. 24079.

**WESTERLUND, O.,** see Wahlgren, E. O. Fjärilar från Lule Lappmark. 1923. No. 27214.

**27338. WESTERN CONSTRUCTION NEWS.** Alaska Road Commission program to add 200 mi. of paved roads in 1951. (Western construction news, June 1951, v. 26, no. 6, p. 74-76, 157, incl. illus., table, map, diagr.)

"The Alaskan road system and the design and construction of roads are discussed. Twenty to 24 in. of gravel are placed on top of frost heaving silts. Stripping or damage to the vegetative insulation is avoided to preserve the permanently frozen subgrade."—SIPRE.

**Copy seen:** DLC.

**27339. WESTERN MINER.** Developments in the far North. (Western miner, Feb. 1951, v. 24, no. 2, p. 94-95)

Notes on production and status of gold mines in the Yellowknife region and gold and silver mines in Yukon Territory.

**Copy seen:** DGS.

**27340. WESTERN MINER.** Northwest Territories. (Western miner, Oct.-Nov. 1950, v. 23, no. 10, p. 102-103; no. 11, p. 164)

Brief notes on gold mining progress in the Yellowknife region, Mackenzie District, 1949.

**Copy seen:** DGS.

**27341. WESTMAN, JONAS. 1867-1922.** Beobachtungen über die Sulitelma-Gletscher im Sommer 1908. Stockholm, 1910. 44 p. 18 illus. (incl. 2 profiles) on 8 plates, tables. (Sweden. Geologiska undersökning. Afhandlingar och uppsatser. ser. Ca. no. 5, pt. 2) **Title tr.:** Observations of the Sulitelma Glaciers made in the summer of 1908.

The extent to which the Sulitelma Glaciers (in northwestern Sweden) had receded between 1898 (the date of the author's previous visit) and 1908 was determined. The ice ablation of the most important glacier of the group, the Stuorajekna, was measured, from July 14 to Aug. 7, and its mean rate per 24 hours was determined. Tabular information is presented on changes in the thickness of the snow cover on and near the Stuorajekna, the cover's specific weight, and the height of the front part of the Stuorajekna. The surface height of the glacier's front in 1908 is compared with its 1897 and 1898 height.

**Copy seen:** DLC.

**WESTRATE, EDWIN VICTOR.** see Collier, W. R., & E. V. Westrate. Reign of Soapy Smith. 1935. 21268.

**27342. WETMORE, FRANK ALEXANDER, 1886-** . Biographical memoir of Leonard Hess Stejneger, 1851-1943. Presented to the Academy at the autumn meeting, 1945. (In: National Academy of Sciences, Washington, D. C. Biographical memoirs. Washington, 1947, v. 24, 4th memoir, p. 145-95, port.)

A detailed biography and outline of the scientific achievements of the zoologist Stejneger. Includes comment on his work on Commander Islands 1882-83, and 1895-97 (investigations on the extinct northern sea cow *Rhytina gigas*, and Pallas cormorant, bird collections, fur-seal studies, etc.), his biography of Steller; zoological species named for Stejneger; appreciation of his work on staff of Smithsonian Institution. A list of his publications, which were concerned largely with birds, reptiles and fishes, is appended.

**Copy seen:** DLC.

**27343. WETMORE, FRANK ALEXANDER, 1886-** . The identity of two Asiatic birds recorded from Nunivak Island, Alaska. (Condor, July 1951. v. 53, p. 206-207)

Recent study shows the warbler and accenter taken by C. G. Harrold in 1927, to be *Locustella ochotensis ochotensis* (Middendorff) and *Prunella montanella badia* Portenko.

**Copy seen:** DLC; DSI-M.

**WETTSTEIN, ALBERT**, *see* Benz, F., & others. Adrenocorticotrophic hormone in pituitary gland of whale. 1951. No. 20587.

**WEYER, EDWARD MOFFAT, 1904-** , *see* Sanders, I. T. Societies around the world. 1952. No. 25824.

**27344. WEYPRECHT, KARL, 1838-1881.** Linienschiffs-Lieutenant C. Weyprecht's Tiefsee - Temperatur - Beobachtungen im Ost-Spitzbergischen Meere, 1871-1874. (Petermanns geographische Mitteilungen, 1878. Bd. 24, p. 345-53) **Title tr.:** Naval Lt. C. Weyprecht's deep-sea temperature observations in the East Spitzbergen Sea, 1871-74.

On the basis of data from the Austrian Expeditions of 1871 and 1872-74, measurements of water temperatures at various depths during summer and winter months in the northern Barents Sea, author discusses temperature anomalies in relation to bottom topography and variation of annual ice conditions in the Spitzbergen and Novaya Zemlya region.

**Copy seen:** DLC.

**WHEELER, ARTHUR O.**, *see* Alpine Club of Canada. Mount Logan Expedition. 1925. No. 20155.

**WHEELER, EDWIN O.**, *see* Brown, E., & others. Effect local cooling fluid in human forearm. 1947. No. 20951.

**27345. WHEILDON, WILLIAM WILLDER, 1805-1892.** The arctic regions. Atmospheric theory of the open polar sea and an ameliorated climate. Third paper . . . Concord, Mass. [Printed at the Salem Press] 1874. 1 p. l., [23] p.

A series of three papers under slightly variant titles were presented to the American Association for Advancement of Science and published in its Proceedings, 1860, v. 14, p. 166-74; 1872, v. 21, p. 111-33; 1873, v. 22, p. 118-40, and were also issued separately. They present evidence, largely of a climatological

and hydrographic nature, tending to demonstrate that the North Polar region is occupied by an ocean.

**Copy seen:** DLC.

**27346. WHEILDON, WILLIAM WILLDER, 1805-1892.** The new arctic continent, or Wrangell's Land. Read before the American Association for the Advancement of Science, Chicago, August, 1868. [Salem, 1869] 8 p.

Account of the sighting of Wrangel Island in eastern Chukchi Sea on Aug. 14, 1867, by the American whaler Nile (Capt. Long), and of reports from other whalers; explorations of Baron Wrangel and his efforts to discover this island in 1823.

**Copy seen:** DLC.

**WHELAN, R. F.**, *see* Greenfield, A. D. M., & others. Circulatory response to cold in fingers. 1952. No. 22203.

**WHELAN, R. F.**, *see also* Greenfield, A. D. M., & others. Heat loss from toes in cold water. 1951. No. 22204.

**WHELEN, TOWNSEND**, *see* Williams, J. P. Alaskan adventure. 1952. No. 27406.

**WHERRETT, G. H.**, *see* Lewis, H. W., & G. H. Wherrett. X-ray survey Eskimos. 1947. No. 23817.

**WHITE, B. G.**, *see* Pearce, D. C. Bibliography on snow & ice. 1951. No. 25009.

**WHITE, BEVERLY H.**, *see* Shumacker, H. B., & others. Studies in experimental frostbite I; effect of heparin on gangrene. 1947. No. 26178.

**WHITE, BEVERLY H.**, *see also* Shumacker, H. B., & others. Studies in experimental frostbite II, arteriograms. 1948. No. 26179.

**WHITE, F.**, *see* Coombe, D. E., & F. White. Notes on calcicolous communities. 1951. No. 21289.

**WHITE, F.**, *see also* Polar record. Oxford Univ. exped. to Norwegian Lapland 1950. 1952. No. 25162.

**27347. WHITE, GAVIN.** Canadian apartheid. (Canadian forum, Aug. 1951. v. 31, p. 102-103)

Critical comment on attitude of the Canadian government to the Eskimos, particularly in connection with their hunting, educational and health facilities; remarks on deterioration of the natives as White advancement in the Canadian

Arctic destroys their original hunting economy. **Copy seen:** DLC.

**27348. WHITE, JOHN W.** The amazing golden plovers. (Nature magazine, June-July 1950. v. 43, p. 288-92, illus., sketch map)

Story of the migration of these birds which breed in the Barren Grounds of Northwest Territories.

**Copy seen:** DGS; DSI-M.

**27349. WHITE, MAX GREGG, 1916-** and others. Preliminary summary of reconnaissance for uranium in Alaska, 1951. Washington, D. C., 1952. 2 p. l., 17 p. 4 sketch maps. (U. S. Geological Survey. Circular 196). Process printed. Other authors: U. S. West, G. E. Tolbert, A. E. Nelson, and J. R. Houston.

Contains tabulated data, with brief discussion of localities examined on Seward Peninsula, in the Alaska Railroad-Iliamna region, on the Gulf of Alaska, and in Southeast Alaska.

**Copy seen:** DGS.

**27350. WHITE, MAX GREGG, 1916-** Radioactivity of selected rocks and placer concentrates from northeastern Alaska. Washington, D. C., 1952. p. l., 12 p. 5 sketch maps. (U. S. Geological Survey. Circular 195) Process printed.

Contains tabulated radiometric and mineralogic data on samples of gneissic granite from Mt. Michelson, and on placer concentrates from the Wiseman and Chandalar regions. The geology of the areas is discussed briefly.

**Copy seen:** DGS.

**27351. WHITE, MAX GREGG, 1916-** Reconnaissance for radioactive deposits along the upper Porcupine and lower Coleen Rivers, northeastern Alaska. Washington, D. C., 1952. p. l., 13 p. illus., maps. (U. S. Geological Survey. Circular 185)

Contains brief notes on Precambrian, Paleozoic, Tertiary and Quaternary sedimentary rocks and the Mesozoic and Tertiary igneous rocks of the region; with tabular data on their equivalent-uranium content. The highest figure for sedimentary rocks is 0.005 per cent, and for rhyolitic dikes associated with granitic intrusive, about 0.006 per cent.

**Copy seen:** DGS.

**WHITE, MAX GREGG, 1916-**, see also Wedow, H., & others. Interim rep. uranium possibilities. 1951. No. 27298.

**WHITE, MAX GREGG, 1916-**, see also West, W. S., & M. G. White. Occurrence zeunerite Brooks Mt. Alaska. 1952. No. 27334.

**WHITE, PAUL D.**, see Scientific American. Whale cardiogram. 1952. No. 25991.

**27352. WHITE, TRUMBULL.** Coming storm over Alaska. (New outlook, Aug. 1933. v. 162, no. 2, p. 16-21)

Journalist's account of the reindeer investigations by the U.S. Dept. of the Interior, 1931-33, with the story of the rise of the Lomen Reindeer Corporation, and other enterprises; also historical notes on early Alaskan reindeer projects for the benefit of the Eskimo.

**Copy seen:** DLC.

**27353. WHITEHEAD, G. KENNETH.** Plan to bring back the reindeer. (Country life, Nov. 2, 1951. v. 109, no. 2859, p. 1450-52, illus.)

Contains popular article summarizing prehistoric occurrence of reindeer in the area now Scotland, and supporting proposal to introduce 25 head of reindeer as experiment directed towards reestablishment of this animal in the British Isles, a project supported by the Reindeer Council of the United Kingdom, q. v. Author suggests Snowden National Park as locality for the experiment.

**Copy seen:** CaMAI; DLC.

**27354. WHITHAM, PAUL PAGE, 1878-** Planning of Alaskan ports. Washington, U.S. Govt. Print. Off., 1916. 24 p., incl. maps, fold. diagr., 13 plates.

Engineer's report recommending government-planned development of Alaskan port sites. Appended are excerpts from articles on port terminal problems recently published in technical journals, and 12 illustrations (among others) of Alaskan harbors.

**Copy seen:** DLC.

**27355. WHITTAKER, HAROLD A., and others.** Disposal of garbage in permafrost areas. (National Research Council. Committee on Sanitary Engineering and Environment, Bulletin, 1949. p. 183-93) Other authors: Lloyd K. Clark, Ralph E. Fuhrman, Harvey G. Rogers and Harold A. Thomas, Jr.

Contains on the basis of information obtained "largely through correspondence or conference" with persons resident in the North, a review of garbage disposal practices of Eskimo and white population including the Armed Services, to deter-

mine the extent of rodent and insect problems, the health hazards, and to recommend improved techniques. The survey showed that Eskimos dumped waste into water courses about dwellings and nearby dumps, or fed the garbage to the dogs. Civilians usually established a collection system with final disposal into dumps, water courses, and sea. The Armed Services stored waste in covered containers which were collected for disposal in sanitary fills and incinerators. Rodent and insect infection hazards were combated with 1080 rat poison, petroleum-base DDT, and improved garbage disposal methods. No plagues or epidemics were reported. The presence of trichinosis in polar mammals and arctic dwellers was attributed to improper waste disposal. Adequate garbage disposal methods, preferably incineration are recommended.—From SIPRE.

**Coppy seen:** DSG.

**27356. WHITTAKER, HAROLD A.** Sanitation needs in Alaska. [Juneau] Alaska, Dept. of Health, 1949. 26 p. illus., diagrs.

The author, special consultant to U.S. Public Health Service, spent July-Aug. 1948 in Alaska to determine the acute problems of environmental sanitation there. From his field observations and official data, he reviews these problems and suggests research studies essential for their solution. The sanitation activities of the Alaska Dept. of Health are reviewed (p. 6-13); and sanitation conditions noted (p. 13-19) for Anchorage and Fairbanks, Juneau and Ketchikan, and for Klawock and Barrow as representative of native villages. Special problems of the permafrost area (some 370,000 sq. mi. covering 60 per cent of the Territory) are discussed (p. 19-22) in regard to building construction, water supply, water purification, sewerage and water distribution systems. Finally author characterizes the studies required in these problems as well as in rodent and insect control, shellfish poisoning, food handling and garbage disposal, clothing, waste disposal. The prevalence of enteric infections in Alaska is summarized by Dr. Ralph B. Williams (p. 22-24). Establishment of an Arctic Health Institute is recommended.

**Coppy seen:** CaMAI.

**27357. WHYMPER, FREDERICK.** Voyages et aventures dans l'Alaska (ancienne Amérique russe) ouvrage tr. de l'anglais avec l'autorisation de l'auteur

par Émile Jonveaux; illustré de 37 gravures sur bois . . . Paris, Hachette et cie, 1871. 2 p. l., ii, 412 p. incl. illus., plates, fold. map. **Title tr.:** Travels and adventures in Alaska (formerly Russian America) translated from English with the author's permission by Émile Jonveaux.

Translation of Whympers account of his experiences with the Western Union Telegraph Co. expedition to Alaska and Kamchatka, first published in English in 1868 (see *Arctic Bibliography*, No. 19424). An abridged translation was published as *Voyages et aventures dans la Colombie Anglaise . . . le territoire d'Alaska* . . . Paris, 1800 (192 p.).

**Coppy seen:** DLC (1871, 1880 editions).

**WHYTE, H. M.,** see Reader, S. R., & H. M. Whyte. Tissue temperature gradients. 1951. No. 25421.

**27358. WIBORG, KRISTIAN FREDRIK.** Experiments with the Clarke-Bumpus plankton sampler and with a plankton pump in the Lofoten area in northern Norway. Bergen, J. Grieg, 1948. 22, [10] p. incl. tables., illus. (map, tables, diagrs.) (Norway. Fiskeridirektoratet. Skifter; ser. havundersøkelser. Reports on Norwegian fishery and marine investigations. v. 9, no. 2)

Discussion of the merits and performance of this sampler, incidentally giving detailed data on collections of copepods from various depths made during Apr.-May 1947.

**Coppy seen:** DI.

**27359. WIBORG, KRISTIAN FREDRIK.** The food of cod (*Gadus callarias* L.) of the O-II-group from deep water in some fjords of northern Norway; with one appendix, *Oothrix borealis* n. sp. a bottom-dwelling copepod from northern Norway. Bergen, J. Grieg, 1949. 27 p. incl. tables, illus. (incl. map) 3 plates. (Norway. Fiskeridirektoratet. Skifter; ser. havundersøkelser. Reports on Norwegian fishery and marine investigations. v. 9, no. 8)

Analysis of stomach contents of first year (some 1-2 year) cod from Norwegian waters between Lofoten and Nordkapp; tabular data on the large proportion of crustaceans, and the few *Sagitta* and polychaetes, making up the diet of cod. Bibliography (6 items). Appendix gives full description of the new copepod.

**Coppy seen:** DI.

**27360. WIBORG, KRISTIAN FREDRIK.** Investigations on cod larvae in the coastal waters of northern Norway. Occurrence of cod larvae, and occurrence of food organisms in the stomach contents and in the sea. Preliminary report. Bergen, J. Grieg, 1948. 26, [1] p. (5 map-diagrams, tables). (Norway. Fiske-ridirektoratet. Skrifter; ser. havundersøkelser. Reports on Norwegian fishery and marine investigations. v. 9, no. 3)

Study of the occurrence of cod larvae relative to its food, largely copepod eggs and larvae; based on investigations in waters of the Lofoten region, 1930, 1939, 1946-47, and of the region northward to Nordkapp in 1933. Bibliography (14 items). **Copy seen:** DI.

**27361. WIBORG, KRISTIAN FREDRIK.** The occurrence of fish eggs and larvae along the coast of northern Norway during April-June 1948 and 1949. (International Council for the Study of the Sea. Annales biologiques, 1949, pub. 1950. v. 6, p. 12-16, 12 map-diagrams.)

Notes on spawning areas of cod and haddock, with brief mention of occurrences of torsk, herring, redfish, capelin, and plaice along Norwegian coastal waters north of the Arctic Circle.

**Copy seen:** DF; DSI-M.

**27362. WICHMANN, YRJÖ, 1868-1932.** Bibliographie der finnisch-ugrischen Sprach- und Volkskunde für das Jahr 1902. (Finnisch-ugrische Forschungen, Anzeiger 1905. Bd. 5, Heft 1-3, p. 1-171) **Title tr.:** Bibliography of Finno-Ugric linguistics and folklore for 1902.

*Contains* among others, works on the Lapps (p. 80-83), Zyryans (p. 91-92), Ostyaks and Voguls (p. 96-103). This is a continuation of an annual bibliography initiated in 1900 by E. N. Setälä, q. v. **Copy seen:** DLC; InU.

**27363. WICHMANN, YRJÖ, 1868-1932.** Etymologisches aus den permischen Sprachen. (Finnisch-ugrische Forschungen, 1912. Bd. 12, p. 128-38) **Title tr.:** Etymologies from the Permian languages.

*Contains* among other things etymological investigation of the following Zyryan words: *gor* (throat), *juskini* (to deprive, to rob), *kab* (last for shoe), *nom* (gnat), *pan* (spoon), *sil* (bacon, fat), *tos* (beard), and *tujis* (birch bark container).

**Copy seen:** DLC; InU.

**27364. WICHMANN, YRJÖ, 1868-1932.** Etymologisches aus den permischen

Sprachen. (Finnisch-ugrische Forschungen, 1914. Bd. 14, p. 81-120) **Title tr.:** Etymologies from the Permian languages.

*Contains* among other things the etymological investigation of about three Zyryan words: *gerni* (to plough), *keralni* (to hack), *kozin* (gift), etc.

**Copy seen:** DLC; InU

**27365. WICHMANN, YRJÖ, 1868-1932.** K. F. Karjalainen (1871-1919). (Finnisch-ugrische Forschungen, Anzeiger, 1923-24. Bd. 16, Heft, 1-3, p. 73-75)

*Contains* obituary of the Finnish scholar who spent four years on an exploring expedition among the Ostyaks and Voguls (in 1898-1902), collected much material for investigation of their language, religion and folklore, and published several important studies in the field.

**Copy seen:** DLC; InU.

**27366. WICHMANN, YRJÖ, 1868-1932.** Kurzer Bericht über eine Studienreise zu den Syrjänen 1901-02. (Suomalais-ugrilainen seura. Aikakauskirja, 1903. v. 21, no. 3, p. 1-47, 4 plates) **Title tr.:** Brief report on a research trip to the Zyryans in 1901-1902.

*Contains* account about the author's expedition, sponsored by University of Helsinki, Sept. 1901-July 1902, in the region (roughly) 58°-62° N. 48°-58° E., visiting the localities of Ustysolsk, Vozem (district of Yarensk), Vizinga (region of Sysola), Noshul' (on the Luza River), and Yus'va (district of Solikamsk). Descriptions of several dialects were made and their characteristics are given in this paper. Considerable folklore was collected (60 tales in verses, 43 songs, 15 laments, 197 proverbs, and 278 riddles) of which 11 specimens of the versed folklore are given here in Zyryan and German. Specimens of handicraft (embroidered clothing, etc.) are illustrated in color. **Copy seen:** InU.

**27367. WICHMANN, YRJÖ, 1868-1932.** Syrjänische Volksdichtung. Helsinki, 1916. vii, 342 p. (Suomalais-ugrilainen seura. Toimituksia, no. 38) **Title tr.:** Zyryan folk poetry.

*Contains* first-hand material on Zyryan folklore, written down mostly in Ustysolsk, the "capital" of the Zyryans, in 1901-1902. Texts are printed in Zyryan with a literal German translation and consists of 64 folk tales and legends, 294 riddles, 181 proverbs, 44 songs, 13 burial dirges and bride's wedding laments, 35

children's songs, rhymes, etc. The texts represent the dialects of lower Izhma, Vychegda, Pechora, Sysola, Lyzha, and Yus'va. **Copy seen:** DLC; InU.

**27368. WICHMANN, YRJÖ, 1868-1932.** Syrjänischer Wortschatz nebst Hauptzügen der Formenlehre. Aufgezeichnet von Yrjö Wichmann. Bearbeitet und herausgegeben von T. E. Uotila. Helsinki, 1942. xvi, 487 p. (Suomalais-Ugrilainen seura. Lexica Societatis Fenno-ugricae, 7) **Title tr.:** Zyryan vocabulary, and main features of the morphology. Recorded by Yrjö Wichmann, worked out and edited by T. E. Uotila.

Preface gives brief account of Wichmann's travels and observations among the Zyryans during 1901-1902; editorial procedures, transcription, etc., the etymological interpretations in the dictionary being the editor's. Then follows the extensive word list, with the author's etymological, and other remarks quoted on p. 363-67; morphology, p. 368-411; index in German p. 412-86.

**Copy seen:** DLC; InU.

**27369. WICHMANN, YRJÖ, 1868-1932.** Ueber die Vertretung des urspr. fingr. \**ñl's* ~ \**ñd'z* im Lappischen. (Finnisch-ugrische Forschungen, 1914. Bd. 14, Heft 3, p. 11-17) **Title tr.:** On the representation of the primitive Finno-Ugric \**ñl's* ~ \**ñd'z* in the Lapp language. **Copy seen:** DLC; InU.

**27370. WICHMANN, YRJÖ, 1868-1932.** Zur Geschichte der finnisch-ugrischen l-Laute, bes. in den permischen Sprachen und im Ostjakischen. (Finnisch-ugrische Forschungen, 1915. Bd. 15, p. 1-55) **Title tr.:** On the history of Finno-Ugric l-sound, especially in the Permian languages, and in Ostyak.

An investigation of the Zyryan and Ostyak words having an l-sound.

**Copy seen:** DLC; InU.

**27371. WICHMANN, YRJÖ, 1868-1932.** Zur Geschichte des Vokalismus der ersten Silbe im Wotjakischen, mit Rücksicht auf das Syrjänische. 2nd ed. Helsinki, 1915. viii, 96 p. (Suomalais-Ugrilainen seura. Toimituksia, no. 36) **Title tr.:** On the history of vocalism of the first syllable in Votyak, with regard to the Zyryan. **Copy seen:** DLC; InU.

**WICHMANN, YRJÖ, 1868-1932,** see also Lytkin, G. S. Syrjänische Sprachproben. 1892. No. 24057.

**WICKERSHAM, JAMES, 1857-1939,** see U. S. Congress. House. Committee on Territories. Alaska coal lands, hearings. 1913. No. 26920.

**WICKERSHAM, JAMES, 1857-1939,** see also U. S. Congress. House. Committee on the Territories. Hearings H. R. 38 Legislative assembly in Alaska. 1911. No. 26929.

**27372. WICKHAM, HENRY FREDERICK, 1866-** . Report on an entomological reconnaissance of southern Alaska and adjacent portions of British Columbia. (Iowa. University. Laboratories of Natural History. Bulletin, 1893. v. 2, no. 3, p. 202-233, 3 plates, incl. 2 maps)

Account of a trip in the summer of 1891 to Wrangell Island, Southeast Alaska, and the adjacent mainland (Stikine River, B. C.) with simple lists of insects collected. **Copy seen:** DLC.

**27373. WIEDEMANN, THOMAS.** Cheechako into sourdough, by Thomas Wiedemann (the Klondike Kid) Portland, Ore., Binforde & Mort [1942] 266 p., front., plates, map on lining-papers

Account of the author's trip from Seattle on the *Eliza Anderson* in 1897 to Alaska and up the Yukon on the *W. K. Mervin*, his life for a short time in an Eskimo village and his experiences panning (successfully) for gold in the Klondike during the winter of 1897-98.

**Copy seen:** DLC.

**27374. WIEDER, FREDERIK CASPAR, 1874-** . The Dutch discovery and mapping of Spitsbergen (1596-1829). Amsterdam, Netherland Ministry of Foreign Affairs and the Royal Dutch Geographic Society, 1919. 2 p. l., 124 p. 45 plates (maps, part fold.)

An historical introduction (p. 1-45) is followed by chronological annotated list of 288 maps most of which are reproduced in facsimile on plates at end of volume. Includes geographic index.

**Copy seen:** DLC.

**27375. WIGGINS, IRA L.** The future of botanical research in Alaska. (In: Alaskan Science Conference . . . 1950. Selected papers, 1952. p. 111-22)

Contains remarks on plant collecting in general and discussion of that in Alaska in particular: its sponsors and outstanding representatives, signaling J. P. Anderson and Eric Hultén; work in plant ecology and cytology; beginnings and prospects of plant anatomy, morphology and

physiology; utilization of plants as indicators of underlying geological strata, etc. Bibliography (19 items).

**Copy seen:** DAI; DLC.

**27376. WIGUTOFF, NORMAN BENJAMIN, 1915-**, and **C. J. CARLSON.** A survey of the commercial fishery possibilities of Seward Peninsula area, Kotzebue Sound, and certain inland rivers and lakes in Alaska. Washington, D. C., 1950. 24 p. incl. map. (U. S. Fish and Wildlife Service. Fishery leaflet 375)

Report on a shoreside survey June-Aug., 1949, showing possibilities of commercial exploitation of king crab, sheefish, whitefish and salmon, for local and Alaskan use only; with notes on labor, power and potable water supplies and freight rates in Nome and other populated places in the region studied.

**Copy seen:** DI.

**27377. WIKLUND, KARL BERNHARD, 1868-1934.** Ein Beispiel des Lativs im Lappischen. (Suomalais-ugrilainen seura. Aikakauskirja, 1892. v. 10, p. 207-209) **Title tr.:** An example of the lative case in Lappish.

**Copy seen:** DLC; InU.

**27378. WIKLUND, KARL BERNHARD, 1868-1934.** De svenska nomadlapparnas flyttningar till Norge i äldre och nyare tid. Uppsala, Almqvist & Wiksell, 1908. 2 p. l., 248 p. incl. tables. **Title tr.:** The movement of the Swedish nomad Lapps to Norway in ancient and recent times.

Based on historical research and linguistic investigation, a study of the visits of Swedish Mountain Lapps and their reindeer from Västerbotten and Norrbotten to various localities in the Norwegian counties, Nordland and Troms. On basis of linguistic data, author believes that the Lapps lived as hunters and fishermen on the northernmost coast previous to the Old Norse period, when they were reindeer nomads and came into contact with the Norse people. Throughout the Middle Ages and subsequently to the present, Swedish Mountain Lapps have followed their reindeer, moving into Norway in summertime, for reasons of climatic and other natural conditions. In later times there has been a decrease in those going to Nordland county but an increase in those to Troms (statistical data for Troms 1884-1908). No details are available on the move from Norway back to Sweden.

**Copy seen:** DLC.

**27379. WIKLUND, KARL BERNHARD, 1868-1934.** Einige urnordische Lehnwörter im Lappischen. (Finnisch-ugrische Forschungen, 1912. Bd. 12, p. 30-37) **Title tr.:** Some old Nordic loanwords in the Lapp language.

Contains an etymological investigation of four cases which exemplify very old Lapp borrowings from the Teutonic languages.

**Copy seen:** DLC; InU.

**27380. WIKLUND, KARL BERNHARD, 1868-1934.** Frageschema für die Erforschung des Renttiernomadism. (Suomalais-ugrilainen seura. Aikakauskirja, 1913-18. v. 30, nr. 7, p. 1-17) **Title tr.:** Plan of a questionnaire for the investigation of reindeer nomadism.

Contains a roster of 104 queries covering the various aspects which should be considered in gathering material for ethnological research on reindeer culture.

**Copy seen:** DLC; InU.

**27381. WIKLUND, KARL BERNHARD, 1868-1934.** Die Herkunft der Lappen. (Folk-Liv, 1937, v. 1, p. 109-123) **Title tr.:** The origin of the Lapps.

Author presents case that the Lapps are the old inhabitants of the North and not late immigrants from the southern regions.

**Copy seen:** InU.

**27382. WIKLUND, KARL BERNHARD, 1868-1934.** Kleine lappische Chrestomathie mit Glossar. Helsingfors, Suomalais-Ugrilainen Seura, 1894. viii, 128 p. (Its: Hülfsmittel für das Studium der finnische-ugrischen Sprachen, 1) **Title tr.:** A small Lapp language reader with a vocabulary.

Contains texts (p. 1-52) and vocabulary (p. 53-127).

**Copy seen:** InU.

**27383. WIKLUND, KARL BERNHARD, 1868-1934.** Lärobok i Lapska språket. Uppsala, Akademiska Bokhandeln, 1915. iv, 313 p. 2nd ed.; 1st ed. pub. 1901 (280 p.)

Contains a grammar (p. 1-131) and annotated texts for reading (p. 132-91) in the dialect of the so-called Lule-Lapps; Lappish-Swedish vocabulary (p. 192-300). An appendix (p. 301-313) deals with the literary language of the southern Lapps.

**Copy seen:** DLC (1901 ed.); InU.

**27384. WIKLUND, KARL BERNHARD, 1868-1934.** Lappische Studien, I-III. Uppsala, 1927. 75 p. (Humanistiska

Vetenskaps samfundet i Uppsala. Skrifter, v. 24, no. 16) *Title tr.*: Studies on the Lapps.

Contains three articles on language of the Lapps; influence of the Teutonic languages. *Copy seen:* DLC; InU.

**27385. WIKLUND, KARL BERNHARD, 1868-1934.** The Lapps in Sweden. (Geographical review, Apr. 1923, v. 13, p. 223-42; illus., map)

Contains introductory remarks on contacts and cultural interchange between Lappish and Swedish peoples; discussion of the Lapps' origin and racial affinities, their penetration from the northeast into the Scandinavian peninsula with a Finno-Ugric language already adopted and their reindeer economy established; description of the considerable differentiation among the Lapps, particularly in dialect, and occupation; their migratory movements due to encroaching Swedish settlement and seasonally for pastures. The political and legal status of Lapps is analyzed, also their historic rights of migration in relation to international frontiers and to pioneering agriculturists from the south. In the latter half of the paper, the author offers data on numbers and distribution of Lapps, specific details on their dwellings, sledges, saddles and skis, dress and food. The elements of their religion are presented and the penetration into their nomads' culture, of modern Swedish institutions and practices: schools, language, sedentary occupation (farming) and business (meat and hide production). A realistic appraisal of their cultural position is given, correlating it with that of the Swedish peasant living in the same tract.

*Copy seen:* DLC.

**27386. WIKLUND, KARL BERNHARD, 1868-1934.** Die nordischen Lehnwörter in den russischlappischen Dialekten. (Suomalais-ugrilainen seura. Aikakauskirja, 1892. v. 10, p. 146-206) *Title tr.*: Nordic loanwords in the Russian-Lappish dialects.

Contains linguistic investigation based on Genetz's dictionary *Wörterbuch der Kotalappischen Dialekte*, q. v. Here the author found 63 certain and 35 doubtful cases of loan-words from the Scandinavian languages which must have been borrowed before the end of the common Nordic period. The Russian-Lappish dialects must have separated from other Lapp dialects also at a very early date.

The paper includes a detailed examination of sounds in the Kola Lapp dialects.

*Copy seen:* DLC; InU.

**27387. WIKLUND, KARL BERNHARD, 1868-1934.** Untersuchungen über die älteste Geschichte der Lappen und die Entstehung der Renttierzucht. (Folk-Liv, 1938. v. 2, p. 12-47, 362-404, 10 illus., 16 plates) *Title tr.*: Investigation of the earliest history of the Lapps and the origin of reindeer breeding.

Contains chapters on: man and reindeer; the subarctic hunters and fishers; animal husbandry and beginnings of agriculture on Lappish soil; reindeer breeding. Though the reindeer naturally associates easily with man, it is difficult to break in as a draft animal. It must be castrated and tamed, but never becomes domesticated like the cow or horse. The most successful taming is that by Samoyeds and Tungus who ride the animal's back. Lapps lure the wild reindeer by salt, camp-fire smoke (protection against mosquitoes) and decoys (domesticated reindeer). Lappish techniques for the breaking-in and harness (single) are described, and theories on the origin of man's domestication of reindeer discussed, with considerable reference to the Samoyeds and Tungus. The author discounts the theory (Kai Donner's) that Lapps learned reindeer husbandry from Samoyeds. He touches also on: development of skis and sledges (at first man-drawn) among the Lapps (they do not have snow-shoes); names and types of Lapp boats; hunting (especially of wild reindeer), fishing and trapping techniques, Lapp implements, utensils, and tools. He remarks on the Proto-Lapps' technique of fishing and hunting as taken over from the Chuds; and on tracing the development of agriculture by following the etymologies of Lapp words for victuals, domestic animals and crops: they are mostly the loan-words from the Scandinavians from whom very early Lapps learned something about agriculture, Troms and Salten districts being the points of contact.

*Copy seen:* InU.

**27388. WIKLUND, KARL BERNHARD, 1868-1934.** Zur Geschichte der lappischen Affrikaten. (Suomalais-ugrilainen seura. Aikakauskirja, 1906. v. 23, no. 16, p. 1-11) *Title tr.*: On the history of the Lappish affricates.

Contains linguistic essay on -ʃʃ- in the

Lapp language, which originated not only from -*ñä-*, but also from -*ñj-*.

**Copy seen:** DLC; InU.

**WIKLUND, KARL BERNHARD, 1868-1934**, *see also* Genetz, A. Kuollan lapin sanakirja. 1891. No. 22058.

**WIKLUND, KARL BERNHARD, 1868-1934**, *see also* Manker, E. M. Skum lappischer Künstler. 1937. No. 24155.

**WIKLUND, KARL BERNHARD, 1868-1934**, *see also* Turi, J. O., & P. A. Turi. Lappish texts. 1918-19. No. 26853.

**WIKLUND, KARL BERNHARD, 1868-1934**, *see also* Weinitz, F. Lappische Zaubertrommel. 1910. No. 27310.

**27389. WILBER, CHARLES G., and X. J. MUSACCHIA.** A comparative study of lipids in arctic marine mammals. (Journal of mammalogy, May 1950. v. 31, p. 162-67, tables)

Results of research, supported by the Arctic Institute of North America, on analyses of cholesterol, phospholipid, and fatty acids of the liver and kidneys of the polar bear and seal, the heart and liver of walrus and the whole blood of seals; showing unusually high level of fat metabolism in the seal. Bibliography (13 items).

**Copy seen:** DGS; DSI-M.

**27390. WILBER, CHARLES G., and V. E. LEVINE.** Fat metabolism in Alaskan Eskimos. (Experimental medicine and surgery, 1950. v. 8, no. 2-4, p. 422-25, tables)

*Contains* a study on the average values for serum lipids, made on 70 Eskimos of Point Barrow, representing about 10 per cent of the population. Results indicate consistently high mean lipid values for both men and women. The significance of these findings, especially in relation to the nearly total absence of cardiovascular-renal diseases in the population is discussed. Bibliography (16 items).

**Copy seen:** DLC.

**27391. WILBER, CHARLES G., and X. J. MUSACCHIA.** Fat metabolism in the arctic ground squirrel. (Journal of mammalogy, Aug. 1950. v. 31, p. 304-309, tables)

Results of research, supported by the Arctic Institute of North America, on the lipids in the blood, liver and kidneys of *Citellus barrowensis*, collected near the

Arctic Research Laboratory, Point Barrow, Alaska. Bibliography (14 items).

**Copy seen:** DGS; DSI-M.

**27392. WILBER, CHARLES G.** Fat usage in arctic as compared with temperate zone mammals. (St. Louis University, Medical bulletin, June 1952. v. 4, no. 6, p. 112-19, diagrs., tables)

*Contains* a study of lipid metabolism of various arctic mammals and a comparison with animals living in the temperate zone. Blood, liver and kidneys of the polar bear, seal, walrus, ground squirrel, etc. were analyzed. Fat was found to serve both as insulator against cold and as a source of stored energy; land animals have only a short feeding season and must store fat for the rest of the year; some, as the ground squirrel consume this fat during hibernation. This study was aided by the Arctic Institute of North America, the U. S. A. F. and the O. N. R. Bibliography (29 items).

**Copy seen:** CaMAL.

**27393. WILBER, CHARLES G.** Fur seal blubber. (Journal of mammalogy, Nov. 1952. v. 33, no. 4, p. 483-85, diagr., tables)

*Contains* a chemical analysis for total cholesterol and phospholipid of a sample of frozen orange blubber from the back of a three-year-old fur seal (*Callorhinus ursinus*) from St. Paul Island, Alaska. Comparison for the two compounds, with other land and aquatic animals are made and the cause of the orange color of the blubber discussed. **Copy seen:** DGS.

**27394. WILBER, CHARLES G., and X. J. MUSACCHIA.** A survey of lipids in arctic animals, Dayton, Ohio, April 1951. 20 p. tables, diagr. (U. S. Air Force. Wright Air Development Center, Wright Air Force Base, Aeromedical Laboratory, Report no. 6463)

*Contains* a report on lipid estimations from tissues of the following animals in the Arctic: tom cod, an amphipod, ground squirrel, jaeger, loon, snowy owl and eider. The birds showed a similarity of lipid pattern from one order to another. The tom cod tissues contained over 90 per cent of esterified cholesterol which is much higher than in the tissues of homothermes. The amphipod had a very high phospholipid content. Lipids in starving ground squirrels were similar to those in hibernating ones. Bibliography (12 items).

**Copy seen:** DSG.

**WILBER, CHARLES G.**, see also Musacchia, X. J., & C. G. Wilber. Studies biochemistry arctic ground squirrel. 1952. No. 24552.

**WILBER, CHARLES G.**, see also Musacchia, X. J., & C. G. Wilber. Studies biochemistry *Citellus*. 1951. No. 24551.

**27395. WILCOX, HOWARD GLEN.** 1894- . Handicaps fail to deter Alaskan gold production. (Western miner, Apr. 1951. v. 24, no. 4, p. 80-81, illus.)

Report on placer and lode mining in 1950; with notes on coal, petroleum, strategic minerals and the discovery of uranium in four areas.

**Copy seen:** DGS.

**27396. WILCOX, JOHN B.** A survey of night sky brightness at College, Alaska. (American Geophysical Union, Transactions, 1950. v. 31, no. 4, p. 541-55, 2 figs., 2 tables)

"Determinations of night sky brightness were made by means of the NRL Photometer Model 2, No. 3, on clear, moonless nights on both the presence and absence of visible auroras. The data, presented in tables, are compiled as mean values of brightness in mI for specific points in the night sky over a period of several weeks. A brightness contour map of the compiled data is presented."—*Meteorological abstracts and bibliography*, Jan. 1951. v. 2, no. 1, p. 23.

**Copy seen:** DLC; MB-BH.

**27397. WILHELM, JULIUS, 1880- .** Über *Planaria affinis* Oc. (Bergen, Norway. Museum. Aarbok, 1907, nr. 4, p. 1-14, illus.) **Title tr.:** On *Planaria affinis* Oc.

Contains a study of identity of a flatworm, *Planaria affinis*, with a description, a survey of the literature and a list of synonyms (p. 11-12) including (p. 13) *Fovia lapidaria*, described by K. Merezchkovskii from the White Sea.

**Copy seen:** MH-Z.

**27398. WILHELMHAVEN, GERMAN. MARINEOBSERVATORIUM.** Schlechte Sicht bei Island und Ost Grönland. Beitrag zur Frage des Auftretens von Nebel und schlechter Sicht durch Niederschlag im Seegebiet von Island und Ost Grönland. Hamburg-Altona, Oberkommando der Kriegsmarine, 1940. 20 p. 10 plates (charts, tables). **Title tr.:** Poor visibility near Iceland and East Greenland. A contribution to the problem of fog and

poor visibility caused by precipitation in the sea area near Iceland and East Greenland.

"Summary of observations made during 1926-1938 at seven stations. Monthly frequency of visibility and dependence of poor visibility on fog and precipitation are given in tables and diagrams and discussed."—*Meteorological abstracts and bibliography*, Sept. 1952. v. 3, no. 9, p. 963.

**Copy seen:** DWB.

**WILKE, FORD**, see Austin, O. L., & F. Wilke. Japanese fur sealing. 1950. No. 20375.

**WILKE, FORD**, see also Scheffer, V. B., & F. Wilke. Validity of subsp. *Enhydra lutris nereis*. 1950. No. 25938.

**WILKINS, Sir George Hubert, 1888- ,** see Arctic. Lincoln Ellsworth. 1951. No. 20259.

**27399. WILKINSON, DOUG.** National Film Board Arctic Project. (Arctic circular, Apr.-May 1952. v. 5, no. 4, p. 36-38)

Contains an itinerary and report on work of a three-man team photographing "Eskimo life and the north country" in the Eastern Canadian Arctic, July 1950-Sept. 1951: 25,000 ft. of 16 mm. film and many stills of muskox, barren ground grizzlies and other mammals and plants near Baker Lake, a walrus and polar-bear hunt in Frozen Strait, the freeze-up near Chesterfield, etc. An igloo studio film of an Eskimo's life from birth to adulthood was made in the Chesterfield region, and further filming of Eskimo life, narwhal hunt, etc., near Pond Inlet in the Eclipse Sound region of northern Baffin Island. As results, two color sound films have been produced: "Angotee, the story of an Eskimo boy" and "Land of the long day."

**Copy seen:** CaMAI; DLC.

**WILKMAN, W. W.**, see Hackman, V. A., & W. W. Wilkman. Geol. översiktskarta över Finland: Kuolajarvi. 1926. No. 22316.

**27400. WILLER, ALFRED.** Über Nutzfischzonen im europäischen Nordmeer. Material für eine wirtschaftsgeographische Behandlung der europäischen Nordmeeresfischerei. (Deutsche wissenschaftliche Kommission für Meeresforschung. Berichte, 1951. Neue Folge, Bd. 12, p. 139-67, tables, chart-diags.) **Title tr.:** On commercial fishery zones in the northern seas of Europe. Material for an

economic-geographic treatment of the North Sea fisheries.

Comparative study of typical fishing grounds, including Barents Sea, southwest Greenland and Spitsbergen waters, based on catch statistics, 1932-38, for great fisheries including cod, herring, and haddock, and lesser fisheries including halibut.

**Copy seen:** DI.

**WILLIAMS, BERYL**, see Epstein, S., & B. Williams. Real book about Alaska. 1952. No. 21680.

**27401. WILLIAMS, CECIL SLOAN, 1907-**, and others. Waterfowl breeding conditions, summer 1947. Washington, D. C., 1948. 2 p. l., 101 p. incl. maps and tables. (U. S. Fish and Wildlife Service. Special scientific report. no. 45) Mimeographed.

Twelve reports from waterfowl biologists of the U. S. Fish and Wildlife Service and of the Canadian Wildlife Management Institute, on breeding grounds surveys of the prairie provinces of Canada and other areas where ducks and geese breed in the lower Canadian region.

**Contents include:** Wright, B. S. Waterfowl breeding conditions, 1947, Maritime region, Eastern Canada, Newfoundland, and Labrador (p. 69-72). Author mentions a banding station operated on Hamilton Inlet, Labrador.

Griffith, R. E. Waterfowl reconnaissance of the Yukon-Kuskokwim delta, (p. 92-93). Author reports on an aerial journey made in August, noting that no large numbers of geese or ducks were seen in an area which generally supports a large breeding population.

**Copy seen:** DI.

**27402. WILLIAMS, CHARLES H. M.** An investigation concerning the dentitions of the Eskimos of Canada's Eastern Arctic. (Canadian Dental Association. Journal, 1940. v. 6, p. 169-72, illus.)

**Contains** a preliminary report of an investigation made in 1939 on 176 males and 103 females. Methods included: a general dental survey of a cross section of available population, and a more intensive study of a smaller number on saliva, microscopic smears, dental impressions, also of photographs, food. The account is largely composed of conclusions on: development of teeth and arches; caries; pyorrhea; salivary amylase; form of teeth; commencing degeneration of teeth, etc.

**Copy seen:** DSG.

**WILLIAMS, D. R.**, see Barbier, D., & D. R. Williams. Observations aurora borealis. 1950. No. 20459.

**WILLIAMS, DON**, see Elvey, C. T., & D. Williams. Recent spectroscopic observations. 1949. No. 21659.

**27403. WILLIAMS, FRANK B.** Sharp-tailed sandpiper in Alexander Archipelago, Southeastern Alaska. (Condor, July 1950. v. 52, p. 164)

Collected in a salt marsh near the mainland on Douglas Island, Oct. 1949, *Erolia acuminata* known as a late summer and fall visitant to the northwestern coast of Alaska. **Copy seen:** DSI-M.

**27404. WILLIAMS, GEORGE C.** Nacreous clouds observed in southeastern Alaska January 24, 1950. (American Meteorological Society. Bulletin, Nov. 1950. v. 31, no. 9, p. 322-23, illus., 2 tables)

"A detailed description of the nacreous clouds from their first appearance at 0630 o'clock to their dissipation around 1100 o'clock is given. The elevation of the clouds measured by triangulation (Anchorage - Cordova) was between 10 and 11 miles. At 52,000 ft. a temperature situation was characterized by an intense warm high with surface center over the Aleutian Islands extending to a considerable elevation and probably controlling the circulation at the elevation of the nacreous clouds. A photograph of the clouds is given."—*Meteorological abstracts and bibliography*, Mar. 1951. v. 2, no. 3, p. 205. **Copy seen:** DWB.

**27405. WILLIAMS, HENRY LLEWELLYN, 1842-** History of the adventurous voyage and terrible shipwreck of the U. S. steamer "Jeannette," in the polar seas. New York, A. T. B. De Witt, 1882. 95, [1] p., illus.

Popularized account, compiled from Danenhower's and Melville's narratives of the *Jeannette* expedition 1879-81, of the voyage, shipwreck in East Siberian Sea, death of De Long and his shipmates and the rescue of Danenhower, Melville and others.

**Copy seen:** DLC.

**27406. WILLIAMS, J. P.** Alaskan adventure. Harrisburg, Penna., Stackpole Co., 1952. xiii, 299 p. 10 plates, diagrs., maps on endpapers.

**Contains** an account mainly of animal life and hunting and the author's experiences in various parts of Alaska, where he served in the Forest Service from time

to time between 1904 and 1939. Includes chapters on the Chilkat country, Alaska Peninsula, Tongass National Forest, Admiralty Island, etc.; describes camping and hunting experiences, game, travel and weather conditions, physical characteristics of the country, its inhabitants and the author's friends, etc. The work of the Forest Service and the Alaska Game Commission is noted throughout the book. *Appendices* give instructions (by Townsend Whelen) on equipment and technique for camp and trail (snowshoes, clothing, footgear, etc.), and on building the Alaskan pack board and the hunter's leanto tent (with diagrams and photographic illus.). Reviewed by J. C. Reed in *Arctic* Dec. 1952, v. 5, no. 4, p. 250, as "a treasure-house of information about outdoors Alaska, especially about the larger game animals."

*Copy seen:* DLC.

**27407. WILLIAMS, JOHN R.** Effect of wind-generated waves on migration of the Yukon River in the Yukon Flats, Alaska. (*Science*, May 9, 1952. v. 115, no. 2993, p. 519-20)

*Contains* an account on the Yukon Flats and the course of the river within them; the nature of the river banks; earlier studies on the shift of the river's course; present prevalent winds and their effect on the river and its banks, especially during the summer, etc. It is concluded that waves generated by the summer winds erode the north banks and thus accelerate the northward migration of the river in the Flats. Bibliography (7 items).

*Copy seen:* DLC.

**WILLIAMS, MARVIN M. D.,** *see* Sheard, C., & others. Skin temperatures of extremities under various . . . conditions. 1941. No. 26096.

**27408. WILLIAMS, MAXCINE MORGAN, 1904-** . Alaska wildflower glimpses. Juneau, Alaska, 1952. 42 p. illus.

*Contains* a popular outline for visitors of the plant geography, the more common plants found in the vicinity of the larger settlements and roads, and the time they flourish. Illustrations are arranged according to flowers' colors. Alphabetical list of plants with their description, and a partial list of their scientific names is included.

*Copy seen:* DLC.

**27409. WILLIAMS, MERTON YARWOOD, 1883-** . Churchill, Manitoba,

a naturalists' rendezvous. (*Canadian geographical journal*, Feb. 1950. v. 40, 70-79, illus.)

Account of mammals and birds (47 species) amphibia, fish and insects, forests and plants, observed during June-July, 1947; with a bibliography (6 items).

*Copy seen:* DGS; DLC.

**27410. WILLIAMS, RALPH B.** The cedar waxwing, *Bombycilla cedrorum*, at Juneau, Alaska. (*Auk*, Oct. 1950. v. 67, p. 519)

Note on the records of this species of bird in 1948-49, previously without a published record of occurrence as far north as Juneau. *Copy seen:* DSI-M.

**27411. WILLIAMS, RALPH B.** Echinococcosis on hydatid disease. (Alaska's health, Feb. 1948. v. 6, no. 2, p. [7])

Description of the disease caused by the dog tape-worm and discussion of control measures, occasioned by a case found among Tanana Indians.

*Copy seen:* DLC.

**27412. WILLIAMS, RALPH B.** A laboratory grows. (Alaska's health, Mar. 1945. v. 3, no. 3, p. [4-5])

Sketch (by the director at Juneau) of the development of public health laboratories, beginning in Juneau, 1936 expanding in 1940 to Anchorage, and 1943 to Ketchikan.

*Copy seen:* DLC.

**27413. WILLIAMS, RALPH B.** Serum gamma globulin now available in Alaska. (Alaska's health. Nov. 1945. v. 3, no. 11, p. [7])

On the availability, methods of handling and administering of a globulin for prophylaxis and modification of measles, with data on incidence of the disease over a five-year period in Alaska.

*Copy seen:* DLC.

**27414. WILLIAMS, RALPH B.** Storage of biologicals at sub-zero temperatures. (Alaska's health, Sept. 1945. v. 3, no. 9, p. [6-7])

Practical directions for keeping small-pox vaccine, toxoids, bacterial vaccines, serums and antitoxins, and rabies vaccine.

*Copy seen:* DLC.

**27415. WILLIAMS, RALPH B.** Summary of *Salmonella* and *Shigella* of Alaska. (Northwest medicine, May 1950. v. 49, no. 5, p. 340, map)

Note on outbreaks of gastroenteric diseases in all parts of Alaska, and difficulty of epidemiologic investigation.

Isolation of Gram-negative bacteria of the genera *Salmonella* and *Shigella* of the family Enterobacteriaceae in 118 instances during 1944-49. Check list of cultures in which these bacteria were isolated at the Alaska Dept. of Health laboratories at Juneau 1936-49; and remarks on vaccination and sanitation as preventive measures against typhoid fever. **Copy seen:** CaMAI; DSG.

**27416. WILLIAMS, RALPH B.** Tularemia; first case to be reported in Alaska. (U. S. Public Health Service. Public health reports, 1946. v. 61, p. 875-76)

Contains a brief account of research work hitherto conducted in Alaska on the carriers of this disease (ticks) and a record of a definite case of tularemia, the first reported in Alaska (1945). The cause of disease, symptoms, blood count, etc., and treatment are given. The patient apparently contracted the disease while skinning muskrats. Occurrence in continental United States and foreign countries is discussed.

**Copy seen:** DSG.

**27417. WILLIAMS, RALPH B.** Tularemia in Alaska. (Alaska's health, Dec. 1945. v. 3, no. 12, p. [2-3])

Description of the disease, notes on infection in Alaskan wildlife and records of cases in the Territory.

**Copy seen:** DLC.

**WILLIAMS, RALPH B.,** *see also* Frohne, W. C., & R. B. Williams. Notes on snipe flies *Symphoromyia*. 1951. No. 21971.

**WILLIAMS, RALPH B.,** *see also* Van Cleave, H. J., & R. B. Williams. Acanthocephala from passerine birds in Alaska. 1951. No. 27030.

**WILLIAMS, RALPH B.,** *see also* Whitaker, H. A. Sanitation needs. 1949. No. 27356.

**27418. WILLIAMS, ROGER W.** Observations on the bionomics of *Culicoides tristriatulus* Hoffman with notes on *C. alaskensis* Wirth and other species at Valdez, Alaska, summer 1949. (Diptera, Heleidae). (Entomological Society of America. Annals, 1951. v. 44, no. 2, p. 173-92, tables)

Contains an account of the life history of the gnat *Culicoides tristriatulus* at the seaport of Valdez, where it is a serious pest, with the aim of developing

a control program, by destruction of the young stages. Data on: the breeding places and their physical and chemical conditions, larval and adult concentrations, eggs and development, emergence, hibernation, flight range, activity, etc., are offered. The pupae of a new species, *C. alaskensis* Wirth, were found in one area whose general physico-chemical conditions are outlined. Nine other species of Heleidae, none of any importance, were found in Valdez. Bibliography (7 items).

**Copy seen:** DSI-M.

**27419. WILLIAMSON, KENNETH.** The distraction behavior of the arctic skua. (Ibis, Apr. 1949. v. 91, p. 307-313)

Aggressive and passive forms of distraction displays of colonial nesters and a solitary pair, and various patterns of lure display are described. All are analyzed and the latter patterns are said to be "derived from the primitive food-begging of the chick, and elaborated with actions from courtship display." Bibliography (15 items).

**Copy seen:** DSI-M.

**WILLIAMSON, KENNETH,** *see also* Duffey, E., & others. "Rodent-run" distraction-behavior. 1950. No. 21556.

**27420. WILLOUGHBY, Mrs. FLO-RANCE (BARRETT).** Sitka, portal to romance. Boston and New York, Houghton Mifflin Co., 1930. x p., 1 l., 233 p., front., plates, ports., facsim.

Account in conversational style of Sitka, "quaint old Russian capital where the history of the Northland was made," with reminiscences and anecdotes from this Alaskan author's sojourn there.

**Copy seen:** DLC.

**27421. WILLSON, C. O.** Airborne, surface, and subsurface facilities used in seeking arctic oil. (Oil and gas journal, Aug. 23, 1947. v. 46, no. 16, p. 78-81, 125, 128-31, illus., 2 maps, diagrs.)

Last of three articles describing work on U. S. Naval Petroleum Reserve no. 4 in Northern Alaska: discussion in some detail of U. S. Geological Survey investigations and the geology of the region; the Reserve's modern equipment, geophysical investigations, radio contacts, airborne gravimeter and magnetometer, coring tests and aircraft support, with chart for a one-year period showing schedule of bush flying which supported the operations. See also two items following. **Copy seen:** DGS.

**27422. WILLSON, C. O.** Climate major factor in determining exploration work in Northern Alaska. (Oil and gas journal, Aug. 16, 1947. v. 46, no. 15, p. 62-66, illus., diagrs.)

Second of three articles describing work on U. S. Naval Petroleum Reserve no. 4: notes on the operating committee and its program in 1948, also on operating conditions in general; a work-feasibility chart showing effects of climatic conditions, and another showing time periods involved in the overall operation schedule of 1947; descriptions of unloading ships, the Point Barrow camp, winter freighting and drilling in permafrost conditions.

**Copy seen:** DGS; DLC.

**27423. WILLSON, C. O.** Full-scale exploration under way by Navy in arctic Alaska. (Oil and gas journal, Aug. 2, 1947. v. 46, no. 14, p. 62-64, 67, illus., map)

First of a series of three articles by the editor of this journal dealing with exploration on the U. S. Naval Petroleum Reserve no. 4 in Northern Alaska, which he visited in July 1947. Here he describes the Reserve and sketches the program and beginning of operations by the U. S. Navy in 1945, the administrative and contractual arrangements.

**Copy seen:** DGS; DLC.

**WILSON, ALICE EVELYN, 1881-**, see Caley, J. F., & others. E. Canada (Possible future petroleum provinces). 1951. No. 21085.

**27424. WILSON, CHARLES S.** Control of Alaskan biting insects. (U. S. Public Health Service. Public health reports, 1951. v. 66, no. 29, p. 917-22)

Contains introductory remarks on the insect nuisance in general; experience of the Alaska Insect Control Project since 1947 and the Arctic Health Research Center since 1949 in research and efforts towards control of mosquitoes, black flies, punkies, snipe flies and horse-flies; division of Alaska into six regions from viewpoint of insect problems and methods of control; aerosol insecticides dispensed from cheap stationary apparatus or from aircraft. Bibliography (5 items).

**Copy seen:** DSG.

**WILSON, CHARLES S.**, see also Blanton, F. S., & others. Control Alaskan mosquito adults. 1949. No. 20719.

**27425. WILSON, CLIFFORD.** editor. The new North in pictures. Toronto,

Ryerson Press [1947] 223 p. illus. (part col.), ports.

Contains photographic illustrations reprinted from the Hudson's Bay Co. journal, *The Beaver*, "in the past dozen years", Canadian wildlife, landscapes and settlements, Indians, Eskimos and white men "as they went along their daily tasks." Introduction by the editor includes brief notes on the photographers, professional and amateur, who contributed their work to *The Beaver*.

**Copy seen:** DLC.

**27426. WILSON, CLIFFORD.** White whale roundup. (Forest and outdoors, 1945. v. 41, p. 187-88, illus.)

Contains account of whaling in Kingua Fiord at the head of Cumberland Sound, with a description of the locale and the method used by the Eskimos to drive the whales over a shallow bank into the blind end of the fiord, the killing and flensing, etc.

**Copy seen:** DA.

**27427. WILSON, GEORGE S.** Barrow day school nutrition program. (Alaska's health, May 1949. v. 7, no. 5, p. 1-3)

Note on change of diet in North Alaska Eskimos in recent times, and description of the purpose, basic diet and results of the feeding program at Point Barrow.

**Copy seen:** DLC.

**27428. WILSON, J. WARREN.** Vegetation patterns associated with soil movement on Jan Mayen Island. (Journal of ecology, Oct. 1952. v. 40, no. 2, p. 249-64, plate, diagrs., map)

Contains a study on the effect of soil movements (caused by gravitation and/or solifluction) upon the vegetation of the island, which consists largely of moss mats with scattered flowering plants. These soil movements produce in certain places, vegetation-patterns of a polygonal, terraced or otherwise regular nature; the genesis of each type of pattern, the peculiar conditions of ground where they are formed, their movements, etc., are analyzed. The study represents "Botanical results of the Oxford University Expedition to Jan Mayen 1947, and the Jan Mayen Expedition, 1950, no. 2." Bibliography (16 items).

**Copy seen:** DI.

**WILSON, J. WARREN**, see also Polar record. Reading expd. Jan Mayen 1950. 1951. No. 25165.

**27429. WILSON, JOHN ARMITSTEAD.** The expansion of aviation into arctic and subarctic Canada. (Canadian ge-

ographical journal, Sept. 1950. v. 41, p. 130-41, illus., map)

Brief, general account of progress in aviation from the first flights in Mackenzie Basin in 1921 to the present, mentioning Canadian-government and commercial flying, new types of aircraft introduced, the growth of airlines and increase of landing fields.

**Copy seen:** DGS; DLC.

**27430. WILSON, JOHN TUZO, 1908-** . An analysis of the pattern and possible cause of young mountain ranges and island arcs. (Geological Association of Canada. Proceedings, 1950. v. 3, p. 141-66, sketch maps, diagrs.)

*Contains* a review of the contraction hypothesis in connection with orogenies, and a classification and description of arcs of the Mesozoic-Cenozoic orogenetic belts of the world, including the Yukon and Aleutian arcs. Bibliography (53 items).

**Copy seen:** DGS.

**27431. WILSON, JOHN TUZO, 1908-** . Investigations in radioactivity and structure of the Canadian Shield 1948. Toronto, 1949. 11 l. (Ontario Research Council. Advisory Committee on Mines. Minerals and Metallurgy Report no. 8.1.49)

*Contains* the report for 1948 to the Research Council of Ontario, of work carried out by the Dept. of Physics, University of Toronto, in the tectonic mapping from aerial photographs, radioactive dating, and studies of heat flow, seismicity, gravity and magnetism of the Canadian Shield. **Copy seen:** CaMAI.

**WILSON, JOHN TUZO, 1908-** , *see also* National Research Council of Canada. Associate Committee on Geodesy & Geophysics. Canadian geophysical bulletin. 1947-current. No. 24578.

**WILSON, JOHN TUZO, 1908-** , *see also* No. 19574-19576, incorrectly attributed to James Tinley Wilson.

**27432. WILSON, MILDRED STRATTON, 1909-** . A new subgenus of *Diaptomus* (Copepoda: Calanoida), including an Asiatic species and a new species from Alaska. (Washington Academy of Sciences. Journal, May 1951. v. 41, p. 168-79, illus.)

Detailed descriptions and comparisons of *Diaptomus sibiricus*, n. nom. and *D. alaskensis*, n. sp., fresh-water copepods, occurring in the lower Lena River region, and in a mountain pool, Eagle Summit,

between Fairbanks and Circle, Alaska. Bibliography (23 items).

**Copy seen:** DGS; DSI-M.

**27433. WILSON, ROBERT W.** Steel Creek. (Alaska sportsman, May 1951. v. 17, no. 5, p. 12-17, 40-44, illus., sketch map)

Description of the Fortymile River country at Steele Creek; notes on the history of gold prospecting on the Fortymile; the new road leading from Fortymile cutoff on the Alaska Highway to Boundary (still under construction); and present-day life in this previously isolated spot, with remarks on gardening with the use of a greenhouse, and panning for gold.

**Copy seen:** DLC.

**27434. WILSON, WILLIAM S.** The Geophysical Institute at the University of Alaska. (In: Alaskan Science Conference...1950. Selected papers, 1952. p. 170-96, plate, diagrs.)

*Contains* brief history of the University of Alaska; general review of research in arctic geophysics, initiated in 1929; activities during the Second International Polar Year; legislation towards, and establishment of the Institute (1936-49), its facilities and means of operating: building (with plans), library, shop, field stations, personnel, etc.; present research in ionospheric and signal intensity measurements, auroral heights etc., and theoretical studies; plans for future work; role of the Institute in Alaskan research.

**Copy seen:** DAI; DLC.

**27435. WILSON, WILLIAM S.** Surface ozone at College, Alaska. (American Geophysical Union. Transactions, Aug. 1951. v. 32, no. 4, p. 552-54, diagrs.)

"Daily average values of the concentration of ozone in the atmosphere near the surface are determined by the oxidation by ozone of iodine to iodide which in turn oxidized sodium arsenite to sodium arsenate; a diagram of the absorption column is given. Measurements of ozone concentration obtained at College from Jan.-March 1950 indicate moderately large interdiurnal variations with the maxima considerably higher than the minima. The concentration of ozone increases with increasing altitude of the sun. The ozone values are much more irregular and averages much higher than those obtained at lower latitudes.—*Meteorological abstracts and bibliography*, May 1952. v. 3, no. 5, p. 434-35. Bibliography (5 items).

**Copy seen:** CaMAI; DWB.

**27436. WILSON, WILLIAMS S., and others.** Surface ozone at College, Alaska, for the year 1950. (American Geophysical Union. Transactions, June 1952. v. 33, p. 361-64, diagrs.) *Other authors:* W. B. Guenther, R. D. Lowrey, J. C. Cain.

*Contains* results of daily measurements of ozone concentration, reported with temperature and pressure data, and compared with data in other localities.

*Copy seen:* DGS.

**27437. WILSON, WINIFRED E.** Our new eider down industry. (Forest and outdoors, 1944. v. 40, p. 59-60, illus.)

*Contains* information on the U. S.-Canadian Migratory Bird Convention Act, a protective law which paved the way for this young industry; the four kinds of eider ducks occurring in Canada; regulations; seasons and ways of collecting the down; cleaning; marketing; substitutes; size of production.

*Copy seen:* DA.

**WILSON-DICKSON, W. G.,** *see* Wyndham, C. H., & W. G. Wilson-Dickson. Physiological responses of hands & feet to cold. 1951. No. 27506.

**WILT, J. C.,** *see* Adamson, J. D., & others. Poliomyelitis in Arctic. 1949. No. 20041.

**27438. WINCHELL, MARY EDNA.** Home by the Bering Sea. Caldwell, Idaho, Caxton Printers, Ltd., 1951. 226 p. plates.

*Account* of the author's work and life as teacher at the Jesse Lee Orphanage at Unalaska; includes description of the journey to Unalaska, the institution and its people, Unalaska Island, the Aleuts, etc., illustrated by photographs.

*Copy seen:* DLC.

**27439. WINFIELD, R. H.** The supply by air of Exercise "Musk-Ox," 1946. (Polar record, Jan 1952. v. 6. no. 43, p. 340-44, plate, map)

*Contains* an account of the activities of the Royal Canadian Air Force in supplying a mechanized force of 47 men traveling in 11 snowmobiles about 3,000 miles on the Barren Grounds north and west of Churchill during Feb.-May 1946. This force was supplied from bases at Churchill and Yellowknife with food, fuel, equipment, etc., dropped by parachute or delivered by landing aircraft. A total of 150 tons of supplies was delivered, with less than four per cent loss from para-

chute drops. The air supply unit of nine aircraft and two gliders was under command of Wing-Commander Showler. Its work is described indicating problems of supply from the air in the Arctic in regard to aircraft maintenance, navigation, landing, weather and ice conditions; handling the cargo, parachuting and dropping supplies; clothing, fatigue, emergency equipment, food, etc.

*Copy seen:* DLC.

**27440. WING, ANNE HINSHAW.** Notes on the song series of a hermit thrush in the Yukon. (Auk, Apr. 1951. v. 68, p. 189-93)

Detailed report on five songs, four in pentatonic scale, the fifth a single note, heard during June-Aug. 1948, at Johnson's Crossing on the Teslin River.

*Copy seen:* DSI-M.

**27441. WING, LEONARD WILLIAM, 1906-** . Cyclic trends in arctic seasons. (Journal of cycle research, Autumn, 1951. v. 1, no. 1, p. 19-25, diagrs.)

Following introductory remarks on usefulness of dates on freeze-up and break-up for phenological studies, the author figures and tabulates (on the basis of local records) opening and closing of the Lewes River at Whitehorse, Yukon River at Dawson, Chena River at Fairbanks, Tanana River at Nenana, also Peace and Smoky Rivers (in Alberta). Data from Preble\* on Athabaska, Peace, Nelson, Laird and Mackenzie Rivers is added. Author notes a rather marked trend in most rivers for progressively earlier opening. "Roughly speaking this trend is equivalent to a northward climatic march of 100-150 miles during period of record at Whitehorse and about 84 miles at Dawson."

*Copy seen:* CaMAI; DLC.

**27442. WING, LEONARD WILLIAM, 1906-** . Size of summer bird grouping, Texas to the Yukon. (Canadian field, naturalist, Sept.-Oct. 1950. v. 64, no. 5, p. 163-69, tables, sketch maps)

Report on bird flocks observed from an automobile during a summer research project, including information from parts of Yukon Territory and Alaska, near the Alaska Highway traveled on the return trip.

*Copy seen:* DLC.

**27443. WING, LEONARD WILLIAM, 1906-** . Some counts of bird populations in coniferous forests near the

\*Arctic Bibliography, No. 13921.

limit of trees. (Canadian field naturalist, Mar.-Apr. 1950. v. 64, p. 87-88)

Table, with explanatory notes and brief discussion, of bird populations observed June 30-July 26, 1948, in the Teslin River region, Yukon Territory, resulting from studies under a grant of the Arctic Institute of North America.

**Copy seen:** DGS; DSI-M.

**WINGE, ØJVIND, 1886-**, see Ferdinandsen, C. C. F. & Ø. Winge. Mycological notes II. 1909. No. 21762.

**WINGNEK, CYRIL**, see Canada. Dept. of Mines & Technical Surveys. Geographical Branch. Introduction to geography of Can. Arctic. 1951. No. 21114.

**27444. WINGO, M.** Public health in Greenland. (U. S. Public Health Service. Public health report, 1945. v. 60, p. 676-78)

*Contains a brief account of the country, climate, population and quality of administration. Tuberculosis, probably introduced long before Danish administration, is the major public health problem with a death rate (1937) of 550 per 100,000. The government maintains 17 hospitals with 350 beds (19.4 per 100,000 pop.); 80 per cent of the beds are assigned to tuberculosis patients. An outline of therapy is presented. Syphilis does not exist among the natives due to strict regulations governing persons coming from other countries. Scattered cases of gonorrhea are reported. Measles and German measles do not occur. Smallpox vaccination is obligatory, with no reports of outbreaks among the native population. Measures taken to protect the workers at the cryolite mines at Ivigtut have prevented fluorine poisoning.*

**Copy seen:** DSG.

**27445. WINGSTRAND, KARL GEORG.** Vertebrata, Crustacea, Hirudinea. (In: Brinck, P. S. V., and K. G. Wingstrand. *Mountain fauna of Virihaure*, 1949-51, pt. 2, p. 6-25, 150-59, illus., and p. 160-61)

*Contains a list of 71 species of vertebrates, including 13 mammals, 55 birds, one amphibian and two fishes; 29 species of fresh-water crustaceans and two species of leeches, native to the Virihaure region of Lule Lappmark, with data on habitat, ecology and local distribution; bibliography (34 + 36 items).*

**Copy seen:** MH-Z.

**WINGSTRAND, KARL GEORG**, see also Brinck, P. S. V., & K. G. Wingstrand. *Mountain fauna of Virihaure*. 1949-51. No. 20902.

**27446. WINKLER, HEINRICH, 1848-1936.** Samojedisch und finnisch. (Finnisch-ugrische Forschungen, 1912. Bd. 12, p. 115-27) **Title tr.:** Samoyedic and Finnish.

*Contains a linguistic investigation of the plural and dual forms in both languages. The author draws conclusion that linguistically Samoyedic and Finnish can be considered as twin-brothers.*

**Copy seen:** DLC; InU.

**27447. WINKLER, HEINRICH, 1848-1930.** Samojedisch und finnisch; zweite Mitteilung. (Finnisch-ugrische Forschungen, 1913. Bd. 13, p. 120-63) **Title tr.:** Samoyedic and Finnish: second contribution.

*Author traces the linguistic affinities of the two languages in an investigation of cases, pronouns, verbs, and syntax. From this and his several other studies on the question, he is convinced of a close relationship between these two languages.*

**Copy seen:** DLC; InU.

**27448. WINKLER, HEINRICH, 1848-1930.** Tungusisch und finnisch-ugrisch. (Suomalais-ugrilainen seura. Aikakauskirja, 1913-18. v. 30, no. 9, p. 1-28) **Title tr.:** Tungusian and Finno-Ugric.

*Contains linguistic investigation based on material collected by Maydell and Czekanowski. The author tries to prove that the building of grammatic forms and the construction of sentences in Tungus show great inner and outer similarity and partly a close relationship to the Finno-Ugric languages.*

**Copy seen:** DLC; InU.

**27449. WINN, BESS A., d. 1949.** Alaska's hopes and aims. (National Tuberculosis Association. Bulletin, 1944. v. 29, p. 211-12, illus.)

*Contains an outline of the history and achievements of the Association; the high rate of tuberculosis in Alaska and the founding of the Alaska Tuberculosis Association, its program, aims, cooperating organizations, etc.*

**Copy seen:** DSG.

**27450. WINSLOW, CHARLES-EDWARD AMORY, 1877-**, and others. Heat exchange and regulation in radiant environments above and below air temperature. (American journal of phy-

siology, Nov. 1940. v. 131, p. 79-92, 5 fig.)  
*Other authors:* A. P. Gagge and L. P. Herrington.

*Contains a study of skin and rectal temperature, metabolism and evaporative heat of two subjects placed in a room where air and wall temperatures were independent from each other and each could be changed within a wide range. Bibliography (6 items).*

*Copy seen:* DLC.

**27451. WINSLOW, CHARLES-EDWARD AMORY, 1877-**, and others. The influence of air movement upon heat losses from the clothed human body. (*American journal of physiology*, Oct. 1939. v. 127, p. 505-518) *Other authors:* A. P. Gagge and L. P. Herrington.

*Reports on metabolism, skin, head and rectal temperatures, and chilling of body tissues during four series of experiments on two young men, lightly clothed in a semi-reclining position in cool environments; with conclusion that the cooling effect of air movements (under conditions of this experiment), varies with the square root of the velocity.*

*Copy seen:* DLC.

**27452. WINSLOW, CHARLES-EDWARD AMORY, 1877-**, and others. The influence of atmospheric temperature and humidity upon the dryness of the oral mucosa. (*American journal of hygiene*, 1942. v. 35, p. 27-39, 3 fig., 2 tables) *Other authors:* L. P. Herrington and J. H. Nelbach.

*Contains a study on human subjects at various temperatures (including such below freezing) and humidities. The drying effect was found to be due to neither of them, but due to the vapor pressure. A vapor pressure of .40 inches appeared to be crucial, conditions above it maintaining moisture and those below it causing dryness of the mucosa. Bibliography (13 items).*

*Copy seen:* DLC.

**27453. WINSLOW, CHARLES-EDWARD AMORY, 1877-**, and A. P. GAGGE. Influence of physical work on physiological reactions to the thermal environment. (*American journal of physiology*, Oct. 1941. v. 134, p. 664-81, 6 fig.)

*Contains a study of two undressed males pedalling on a stationary bicycle at a rate, set to increase their metabolism to over 300 kgm.-cal. per hour; also a comparison with earlier results from similar subjects at rest in a semi-reclining position, with a metabolism of 80-100*

*kgm.-cal. Included are data on the radiation area; convection constant; sweat secretion; cooperative cooling; subjective feeling, etc. Bibliography (15 items).*

*Copy seen:* DLC.

**27454. WINSLOW, CHARLES-EDWARD AMORY, 1877-**. Man's heat exchanges with his thermal environment. (*In: American Institute of Physics. Temperature, its measurement and control in science and industry. New York, Reinhold Pub. Corp., 1941. p. 509-521*)

*Contains a review of studies largely made with a procedure called and described by the author as Partitional Calorimetry. It includes the following topics: heat production of the body; avenues of heat loss under varying environmental conditions; heat loss through evaporation, convection, radiation; heat storage; physiological control of peripheral blood flow, of metabolism, and of sweating; physiological adaptation to environmental caloric-demand; upper limits of evaporative regulation. Bibliography (about 50 items).*

*Copy seen:* DLC.

**27455. WINSLOW, CHARLES EDWARD AMORY, 1877-**, and others. Physiological reactions of the human body to varying environmental temperatures. (*American journal of physiology*, Sept. 1937. v. 120, p. 1-22, 5 fig.) *Other authors:* L. P. Herrington and A. P. Gagge.

*Contains a partitional calorimetric study over a wide range of environmental temperature (6.5° C. to 35.5° C.), made on two unclothed, semi-reclining subjects, one of them stout, the other slender. Observations include metabolic rates, skin temperatures, heat loss and its relation to skin temperature; relationships between skin temperature and body temperature, evaporation, storage, etc., Bibliography (18 items).*

*Copy seen:* DLC.

**27456. WINSLOW, CHARLES EDWARD AMORY, 1877-**, and L. P. HERRINGTON. Temperature and human life. Princeton, N. J., Princeton Univ. Press, 1949. xiv, 272 p. tables, diagrs.

*A scientific monograph on the thermal physiology of man and his physiological reactions to, and technological protection from, the thermal environment. Chapters on: production of heat in the life*

process; avenues of heat loss from the body; adaptation of the human body to varying thermal conditions; thermal protective influence of clothing; objectives of air conditioning; methods of air conditioning; influence of climate and season upon health; glossary. Of special interest for arctic studies are sections on: reactions of the body to a cold environment (p. 74-78), and most of chap. 4, thermal protective influence of clothing (p. 116-62). This deals with measuring the insulation properties of clothes, physiological response of the human body to clothing, protection of the extremities against extreme cold, etc. Bibliography (151 items).

**Copy seen:** DSG.

**WINSLOW, CHARLES EDWARD AMORY, 1877-**, *see also* Gagge, A. P., & others. Influence clothing on reactions human body to varying environmental temperatures. 1938. No. 22003.

**27457. WINSLOW, KATHRYN.** Big pan-out. New York, W. W. Norton & Co. [1951]. 247 p., 10 illus. on 4 plates, maps on end-papers.

A vivid and objective account of the Klondike gold rush, based on the author's researches and on notes and journals of prospectors, H. V. Sutherland, John Ver Mehr and others who participated in it. Maps on endpapers show the numerous gold creeks of "the Trail of '98."

**Copy seen:** DLC.

**27458. WINTHER, P. C., and others.** A preliminary account of the Danish Pearyland Expedition, 1948-49. (Arctic, Apr. 1950. v. 3, p. 3-13, illus., map)

Brief account of the organization, financing, supply transport by ship, then by Catalina planes from the base at Young Sund 74°16' N.; the preliminary scouting expedition in the summer of 1947; roster of personnel and brief summaries of the "work carried out and the results obtained on sledge journeys and on walking and motor boat trips during the first wintering of 1948-9" at Jørgen Brønlands Fjord, 82°11' N. 31°30' W.; geology summarized by J. Troelsen, botany, by K. Holmen, zoology, by P. Johnsen, meteorology and glaciology, by B. Fristrup, archeology by E. Knuth (leader).

**Copy seen:** DAI; DLC.

**27459. WIRÉN, EINAR.** Bidrag till kännedomen om coleopterfaunan i norra delen av det nordsvenska barrskog-

sområdet-från insamlingar vid Pålken, I-II. (Entomologisk tidskrift, 1945. Årg. 66, häft. 1-2, p. 23-43, illus.; (II) 1947, Årg. 68, häft. 3-4, p. 188-92) **Title tr.:** Contributions to the knowledge of the Coleoptera fauna of the northern part of the pine forest belt of Sweden, based on collections from the Pålken region, I-II.

Contains physical and geographic data on the pine forest belt of the Pålken region in Gällivare parish, Swedish Lapland (66°23' N.), explored by the author in the summers 1941-44, and a systematic list of 848 coleopters native to that region, with data on habitat and occasional critical notes (pt. II).

**Copy seen:** DA; MH-Z.

**27460. WIRT, LOYAL LINCOLN, 1863-**. Alaskan adventures; a tale of our last frontier and of "Whiskers", the gallant leader of the first dog team to cross Alaska. New York, London [etc.] Fleming H. Revell company [c1937]. 3 p. l., 5-124 p., front. (port.) plates

Story of the author's trip in 1899 from Sitka to the gold fields, and his other travels in Alaska, life of prospectors and Eskimos, his dog "Whiskers."

**Copy seen:** DLC.

**27461. WIRTH, PAUL.** Die Wirtschafslandschaft von Schwedisch-Lappland. (Geographica Helvetica, Apr. 1948. v. 3, p. 143-55, illus.) **Title tr.:** The landscape of Swedish Lapland, from the economic viewpoint.

The three natural geographic regions, mountains, forests and sea coast (near the Gulf of Bothnia) are characterized. Highlands with only Lapp reindeer herding and an unexploited timber region lacking transportation facilities, are found over most of the territory; a flourishing iron ore industry is noted in the region of Kiruna and (to a lesser extent) Gällivare, and agriculture in the lower region.

**Copy seen:** DGS.

**WISE, CHARLES S.,** *see* Brown, E., & others. Effect local cooling fluid in human forearm. 1947. No. 20951.

**WITSEN, NICOLAAS CORNELIS-ZOON, 1641-1717,** *see* Trisman, V. O russkol étnograf. karte. 1950. No. 26799.

**WITTING, ROLF,** *see* Blomqvist, Edv., & others. Redogörelse Finska vatten, plankton. II. 1913-15. No. 20725.

**27462. WITTROCK, VEIT BRECHER, 1839-1914.** Anteckningar om nordiska namn (Svenska, Norska, Danska, Färöiska, Isländska, Finska och Lapska) på *Stellaria media* (L.) Cyr. Efter föf:s död utgivna av. Rob. E. Fries. Stockholm, I. Marcus' boktr., 1918. 39 p., map. **Title tr.:** A list of the northern names (Swedish, Norwegian, Danish, Faroese, Icelandic, Finnish and Lappish) of *Stellaria media* (L.) Cyr. Edited after the death of the author by Rob. E. Fries.

**Contains** alphabetical list of vernacular names of *Stellaria media* arranged by the languages and by the countries (provinces); the map shows the distribution of this herb in Scandinavia.

**Copy seen:** MH-A.

**27463. WITTROCK, VEIT BRECHER, 1839-1914, and H. O. JUEL.** Catalogus plantarum perennium bienniumque in Horto Botanico Bergiano annis 1890 et 1891 sub divo cultarum. Adjectis adnotationibus botanicis nonnullis. Stockholm, I. Marcus' boktr., 1891. 95, xvii p., illus., plate. (Acta horti Bergiani, Bd. 1, no. 3 & Appendix) **Title tr.:** Catalog of perennial and biennial plants cultivated in the open air in the Bergielund Botanical Garden in 1890 and 1891. Additional botanical notes.

**Contains** a systematic list of perennial and biennial plants cultivated in this garden near Stockholm, with the following data: place from which the seeds were received, date of planting and geographic distribution; botanical notes on fifteen plants, p. 78-88; index of the genera, p. 89-93. Includes some species native to arctic regions. **Appendix** gives list of seeds offered for exchange, p. i-xvii.

**Copy seen:** DLC; MH-A.

**27464. WITTROCK, VEIT BRECHER, 1839-1914.** Illustrerad förteckning öfver Bergielunds botaniska trädgårds samling porträtt af botaniska författare; jämte biografiska notiser. [I]-II Delen. Stockholm, I. Marcus' boktr., 1903-1905. 198 p., 46 plates; xciii, 245 p., 151 plates. (Acta horti Bergiani, Bd. 3, no. 2; (II) Bd. 3, no. 3) **Title tr.:** Illustrated catalog of the collection of portraits of botanists at the Bergielund Botanical Garden. [Hortus Bergianus]. [I]-II.

**Contains** portraits of Scandinavian and foreign botanists in the collection at the Bergielund (Stockholm) Botanical Garden, with biographical data, notes on their travels and botanical explorations and references to their portraits, arranged

by countries; includes many (especially Scandinavian) explorers of arctic regions; indexes.

**Copy seen:** DLC; MH-A.

**27465. WITTROCK, VEIT BRECHER, 1839-1914.** *Linnaea borealis* L. en mångformig art. Stockholm, I. Marcus' boktr., 1907. 187 p., illus., plates 1-13. (Acta horti Bergiani, Bd. 4, no. 7). **Title tr.:** *Linnaea borealis* L. a polymorphic and polychrome species.

**Contains** an historical survey of previous studies, detailed characterization of the systematics of this highly polymorphic species, polymorphism of flowers and seeds, systematic position and geographic distribution of the genus *Linnaea* (twinflower); Latin descriptions of 140 Swedish forms, including many new ones, dimensions, critical notes, explanations of the plates. An additional list of seven species growing in North America is given including *L. b.* var. *longiflora*, occurring on Baranof Island, and an index of the forms.

**Copy seen:** DLC; MH-A.

**27466. WITTROCK, VEIT BRECHER, 1839-1914.** Meddelanden om granen, sarskildt hennes svenske former, i bild och skrift. Afdelning I. Stockholm, I. Marcus' boktr., 1914. ix, 91 p., plates 1-23. (Acta horti bergiani, Bd. 5, no. 1) **Title tr.:** Notes on spruce, particularly on Swedish forms, with illustrations and descriptions. Part I.

**Contains** illustrations of spruce, *Picea excelsa*, and numerous varieties and forms of this highly polymorphous species, accompanied by descriptive and critical notes, Latin diagnoses of 56 new forms, data on distribution in various regions of Sweden, including Lule Lappmark, Åsele and Lycksele Lappmark, and in Finnmark province, northern Norway.

**Copy seen:** DLC; MH-A.

**27467. WITZIG, EMIL.** Einige jungpaläozoische Pflanzen aus Ostgrönland. København, C. A. Reitzel, 1951. 35 p., 6 illus., 8 plates. (Meddelelser om Grønland, Bd. 114, nr. 11) **Title tr.:** Some young-Paleozoic plants from East Greenland.

**Result** of the Danish Expeditions to East Greenland 1947-51 under leadership of Laue Koch. Determinations and descriptions of plant remains (16) collected mostly by the author in 1949-50 in the Carboniferous area 72°15'-73°15' N. lat. extending from the northern part of Scoresby Land to the Kejser Franz

Josefs Fjord, and some brought home by Prof. Eigil Nielsen 1936. Bibliography (59 items). Summary in English notes collecting localities and principal finds.

**Copy seen:** CaMAI; DSI-M.

**27468. WOCKE, MAXIMILIAN FERDINAND, 1820-1906, and O. STAUDINGER.** Reise nach Finnmarken. (Stettiner entomologische Zeitung, 1861, Bd. 22, no. 10-12, p. 325-404; 1862, Bd. 23, p. 30-78, 233-57) **Title tr.:** A journey to Finnmark.

*Contains* a general account of a trip in May-Aug. 1866, to Finnmark, the northernmost province of Norway, with data on geography, climate, flora and entomological fauna of the region and descriptions and critical notes on 84 large butterflies and moths (Macrolepidoptera) determined by Dr. Staudinger; two species, *Eupithecia hyperboreata* and *E. alternaria*, described as new. The second part of this paper (Bd. 23, 1862) has descriptions and critical notes on 291 species of Microlepidoptera collected on the trip and determined by Dr. Wocke, who notes 11 new species and a (probably) new variety.

**Copy seen:** MH-Z.

**WOLBACH, S. BURT,** *see* Maddock, C. L. & others. Hypervitaminosis A in dog. 1949. No. 24107.

**27469. WOLDSTEDT, FREDRIK WILHELM, 1847-1884.** Bidrag till kännedom af Finlands Tryphonider. (Bidrag till kännedom af Finlands natur och folk, 1874. Häft. 21, p. 25-59) **Title tr.:** A contribution to the knowledge of Tryphonidae of Finland.

*Contains* a systematic list of about 190 species of hymenopterous family Tryphonidae, with diagnoses of 18 new species and data on their distribution in Scandinavia, Finland, Russian Lapland and Karelia; includes at least five new species and about 35 previously described forms from the northern regions of Scandinavia, Finland and Kola Peninsula.

**Copy seen:** DLC; MH-Z.

**27470. WOLDSTEDT, FREDRIK WILHELM, 1847-1884.** Materialier till en ichneumonologia fennica. (Bidrag till kännedom af Finland natur och folk, 1874. Haft 21, p. 61-92) **Title tr.:** Material for an ichneumon fauna of Finland.

*Contains* a systematic list of 270 species of ichneumon flies with Finnish localities and names of collectors; in-

cludes Latin diagnoses of three new species and records of at least 35 species native to Finnish and Russian Lapland.

**Copy seen:** MH-Z.

**WOLDSTEDT, FREDRIK WILHELM, 1847-1884,** *see also* Hellén, W. Ichneumonidentypen F. W. Woldstedts. 1950. No. 22525.

**27471. WOLDSTEDT, PAUL.** Der Bewegungsvorgang beim Inlandeis. (Petermanns geographische Mitteilungen, 1952. Jg. 96, p. 268-70, illus.) **Title tr.:** The movement of inland ice.

*Contains* a brief discussion of present-day views on the physical processes and mechanics of glacier movement, with conclusion that the controversial theory of extrusion flow (Max Demorest) cannot be ignored in the study of inland ice movement.

**Copy seen:** DGS.

**27472. WOLDT, A.** Die Kultusgegenstände der Golden und Giljaken. (Internationales Archiv für Ethnographie, 1888. Bd. 1, p. 92-107, 2 tables) **Title tr.:** The objects of cult of the Golds and Gilyaks.

*Contains* description of 152 objects, brought by Captain J. A. Jacobsen in 1884-85 from the Amur countries and stored in Museum für Völkerkunde in Berlin: shamanistic clothes (caps, mittens, headgear, drums, sticks, ornaments, etc.), idols, amulets against diseases, etc.

**Copy seen:** DLC.

**27473. WOLF, STEWART, and J. D. HARDY.** Studies on pain; observations on pain due to local cooling and on factors involved in the "cold pressor" effect. (Journal of clinical investigation, Sept. 1941. v. 20, p. 521-33, 9 fig.)

*Contains* a report on studies made by the authors on each other. Pain evoked by local cooling appeared to be separate from the sensation of cold, but its intensity depended directly on the degree of cooling; it is apparently mediated through small, non-myelinated fibres of class C. The stimulus causing "cold pain" may be found in the thermal gradient in the tissues of the exposed part; this stimulus may bring about also a painful vasospasm. "Adaptation" may be brought about by decrease of the thermal gradient and relaxation of the vasospasm. The cold-pressor effect appears to be "a measure of reaction to pain." Bibliography (28 items).

**Copy seen:** DLC.

**27474. WOLFF, FERDINAND LUDWIG von, 1874-** . Der Vulkanismus . . . Bd. 2: spezieller Teil, Tl. 1, Hälfte. 1-2. Stuttgart, F. Enke, 1923-29. xii, 828 p., illus. (incl. sketch maps) tables, 3 fold. maps. **Title tr.:** Vulcanology . . . v. 2, Special part, pt. 1, section 1-2.

This summary of volcanoes, their periods of activity and analyses of their lavas, includes the Kamchatka-Kurile are (p. 89-101); the Wrangell volcano-group (p. 567); and the Alaska-Aleutian are (p. 568-86). **Copy seen:** DGS.

**27475. WOLFF, NIELS L.** *Crambus bonifatellus* Hulst, an unexpected component of the lepidopterous fauna of Greenland. (Entomologiske meddelelser, 1950. Bd. 25, p. 421-24, illus.)

This moth previously recorded only from Colorado and more westerly states, has been found recently in five localities of West Greenland between about 60°-64° N. lat. Full description of wings and genitalia is given.

**Copy seen:** DSI-M.

**27476. WOLFF, RICHARD C., and K. E. PENROD.** Effect of altered metabolism on extreme hypothermia in dogs and albino rats. (Federation proceedings, Mar. 1949. v. 8, p. 170)

Contains an abstract of a study on the effects of extreme hypothermia on normally fed animals and those administered propylthiouracil and thyroid extract in their diet. The experiments indicate that during immersion in very cold water (4° and 7° C.) "the metabolic defenses of the animal are not capable of significant protection."

**Copy seen:** DLC.

**27477. WOLFF, RICHARD C., and K. E. PENROD.** Factors affecting rate of cooling in immersion hypothermia in the dog. (American journal of physiology, Dec. 1950. v. 163, p. 580-84)

Results include the following: "A heavy coat of hair offered significant protection against cooling but short hair proved no better than no hair. Shivering was found to have a significant effect in showing the cooling rate, but a minimal shivering showed a tendency toward an increased cooling rate when compared to no shivering. Although a definite trend toward slower cooling with increasing body weight exists, the differences were not found to be statistically significant. No difference between sexes was detected in

the cooling rate." Bibliography (4 items).

**Copy seen:** DLC.

**WOLKIN, JULIUS,** see Hyndman, O. R., & J. Wolkin. Autonomic mechanism heat conservation. 1942. No. 22766.

**27478. WOLLEBAEK, ALF, 1879-** . Le développement du genre *Sclerocrangon* (G. O. Sars). (Bergen, Norway. Museum. Aarbok; naturvidenskapelig rekke, 1906, nr. 11, p. 1-8, plates) **Title tr.:** Development of the genus *Sclerocrangon* (G. O. Sars).

Contains results of observations on the development of a marine crustacean, *Sclerocrangon ferox* collected during the Norwegian North Atlantic Expedition, 1876-78, on Norwegian coast and near Jan Mayen and Spitsbergen.

**Copy seen:** MH-Z.

**27479. WOLLEBAEK, ALF, 1879-** . Remarks on Decapod Crustaceans of the North Atlantic and the Norwegian fiords, I-II. (Bergen, Norway. Museum. Aarbok, 1908. no. 12, p. 1-77, illus., plates 1-13)

Contains in pt. I descriptions of *Calcarides* n. subgen. and *C. crassipes*; in pt. II, descriptive notes on 15 species of decapod crustaceans of the suborder Macrura with data on geographic and bathymetric distribution, habitat, breeding season, growth, maturity and moulting; based on study of material collected by the author, Appellöf, Grieg, Nordgaard and research ship *Michael Sars* (1900-1903) in Norwegian fiords, Greenland and Barents Sea.

**Copy seen:** DLC; MH-Z.

**27480. [WOLLSCHLAGER, ALFRED] 1901-** . Pelzjäger, Prärien und Präsidenten; Fahrten und Erlebnisse zwischen New York und Alaska, von A. E. Johann [pseud.] Berlin, Ullstein [c1937]. 316, [2] p., plates, port., maps (1 fold.) **Title tr.:** Trappers, prairies and presidents. Travels and experiences between New York and Alaska.

Description of journey through post-depression U.S.A., showing the economic and political difficulties, and dispelling many old-time European ideas about America. Includes a section on Alaska (p. 245-317), with comment on travel experiences, Eskimos and Indians, dogs and reindeer, gold prospecting, the Yukon River, etc.

**Copy seen:** DLC.

**WOOD, W. J.**, see Adamson, J. D., & others. Poliomyelitis in Arctic. 1949. No. 20041.

**WOOD, WALTER ABBOTT, 1907-**, see *Polar record*. Project "Snow Cornice" 1949. 1951. No. 25164.

**WOOD, WALTER ABBOTT, 1907-**, see also Sharp, R. P. Glacial history of Wolf Creek, St. Elias Range. 1951. No. 26076.

**WOODBURY, R. B.**, see Sanders, I. T. Societies around the world. 1952. No. 25824.

**WOODRUFF, B. JOHN**, see also Canada. Geodetic Service. Report on areas of NWT (Keewatin). 1943. No. 21110.

**WOODRUFF, B. JOHN**, see also Cody, W. J. Plants collected by Woodruff, Melville Pen. 1950. No. 21242.

**27481. WOODWARD, FRANCES J.** The Franklin search in 1850. (Polar record, July 1950, v. 5, no. 40, p. 532-42, illus. map)

*Contains* the substance of a lecture delivered at the Scott Polar Research Institute on Feb. 11, 1950, dealing with the year of most active search for the Franklin Expedition to the Canadian Arctic of 1845. Includes characterization of Sir John and his wife Jane Franklin, the latter's extraordinary activity in organizing search expeditions; detailed account of the rescue ships and expeditions in the Franklin search in 1850; their itineraries and achievements; partial story of the fate of Franklin's expedition and analysis of factors causing its failure; brief review of the search till 1859.

*Copy seen:* DLC.

**27482. WOODWARD, FRANCES J.** Joseph René Bellot, 1826-53. (Polar record, Jan 1950. v. 5, no. 39, p. 398-407, port.)

*Contains* a sketch of the personality of the young French naval officer who joined a Franklin Search party of 1851-52 on the *Prince Albert* under Captain Kennedy, notes on explorations in Canadian waters and the wintering at Batty Bay; Bellot's participation in another voyage on the *Phoenix* under Inglesfield in 1853 (to contact Belcher's expedition in Canadian waters) and his death on Aug. 18, 1853, in the drift ice of Wellington Channel. *Copy seen:* CaMAI; DLC.

**WOODWORTH, W. C.**, see Gordon, A. R., & W. C. Woodworth. Some inter-relationships snow, ice, weather. 1950. No. 22170.

**27483. WORDEN, WILLIAM L.** They survey our unknown coast. (Saturday Evening Post, June 14, 1952. v. 224, no. 50, p. 20-27, 99, 101-102, 104, 106, col. illus.)

Popular sketch of the East Unit of the Arctic Field Party, U. S. Coast and Geodetic Survey, its camp on Barter Island (a quarter mile off the north Alaskan coast, 80 miles east of the Canadian boundary), its equipment, the 30-man party's task to survey the "last unsurveyed mainland coast under the U. S. flag" eastward to Demarcation Point. *Copy seen:* DLC.

**27484. WORDIE, JAMES MANN, 1889-** Lincoln Ellsworth. (Polar record, Jan. 1952. v. 6, no. 43, p. 419-20)

Obituary of Ellsworth 1880-1951, one of the pioneers of polar flying, with outline of his achievements in Arctic and Antarctic. *Copy seen:* DLC.

**27485. WORLD OIL.** Alaska [and] Canada. (World oil, July 15, 1950. v. 131, no. 2, p. 65-66, 71, 73-74, 76, 82, 4 maps)

"International operations issue" of this journal with brief discussion of exploration, and tabular data on drilling, oil production, and refineries. Includes work at the U. S. Naval Petroleum Reserve no. 4 (p. 65) and the Norman Wells region of Canada.

*Copy seen:* DGS.

**27486. WORLD OIL.** Tempo increases in Alaska operations. (World oil, Jan. 1950. v. 130, no. 1, p. 220)

Brief, informative notes on drill tests in U. S. Naval Petroleum Reserve no. 4, northern Alaska, planned for the summer of 1950, and on personnel and transportation facilities in the Reserve (large area around Point Barrow).

*Copy seen:* DGS.

**27487. WORLD PETROLEUM.** Alaskan exploration makes steady progress. (World petroleum. Feb. 1948, p. 50-51, illus., map)

An outline of U. S. Naval Petroleum Reserve no. 4, an area of 35,000 sq. miles in northern Alaska (ca. 68-71° N. 151°-162° W.); the history of its establishment and exploration; difficulties en-

countered in oil prospecting operations; some results of drillings; oil prospects of Alaska in general. **Copy seen:** DLC.

**WOXNERUD, ERIK**, see Ahlmann, H. W., & others. Scientific invest. Kebnekajse massif. 1951. No. 20080.

**WRENN, EARLE L.**, see Shumacker, H. B., & others. Studies in experimental frostbite I; effect of heparin on gangrene. 1947. No. 26178.

**WRENN, EARLE L.**, see also Shumacker, H. B., & others. Studies in experimental frostbite, II, arteriograms. 1948. No. 26179.

**WRIGHT, BRUCE S.**, see Gabrielson, I. N., & B. S. Wright. Notes on birds of Fort Chimo. 1951. No. 21993.

**WRIGHT, BRUCE S.**, see also Williams, C. S., & others. Waterfowl breeding conditions 1947. 1948. No. 27401.

**WRIGHT, F. S.**, d. 1950, see Nor'west miner, 1933?-50. No. 24739.

**27488. WRIGHT, GRANT MacLACHLAN, 1917-**. Ghost Lake map-area, Northwest Territories (preliminary account). Ottawa, 1950. [2], 10 l., fold. map. (Canada. Geological Survey. Paper 50-13) Mimeographed.

On the basis of field work in 1949, in the region between 63°45'-64° N. 115°-115°30' W. (north of Yellowknife), author gives notes on its physical features, and description of the rocks, folds, faults, and gold occurrences, with a geologic map, scale 1:31,680. **Copy seen:** DGS.

**27489. WRIGHT, GRANT MacLACHLAN, 1917-**. Second preliminary map, Christie Bay, District of Mackenzie, Northwest Territories. Ottawa, 1951. 10 l. fold. map. (Canada. Geological Survey. Paper 51-25) Mimeographed.

Contains descriptive notes on territory across the central part of the east arm of Great Slave Lake. The physical geography and general geology, and indications of gold, base-metal, copper and radioactive mineralization are dealt with. Text accompanies geologic map, scale 1:126,720, 62°-63° N. 110°-112° W.

**Copy seen:** DGS.

**27490. WRIGHT, GRANT MacLACHLAN, 1917-**. Second preliminary map, Reliance, Northwest Territories. Ottawa, 1951. 11 l. map (Canada. Geological Survey. Paper 51-26) Mimeographed.

Contains descriptive notes to accompany the map of a region at the east end of Great Slave Lake, on surface features, general geology and possibilities for prospecting. Geologic map, scale 1:126,720, 62°-63° N. 108°-110° W.

**Copy seen:** DGS

**27491. WRIGHT, JOHN KIRTLAND, 1891-**. Geography in the making, the American Geographical Society, 1851-1951. New York, 1952. xxi, 437 p. illus. plates, ports., diagrs., maps on end papers.

Chronological account of the first hundred years' activities and achievements of the Society, including its sponsorship or aid to many expeditions in the North, those of Kane, Hayes, Hall, Howgate, Schwatka, Peary, Mikkelsen and Leffingwell, Stefansson, Forbes, Wilkins, Louise Boyd, W. O. Field, etc. (see index). Includes lists the Society's officers and personnel, its publications, and an efficient index. **Copy seen:** CaMAI.

**WRIGHT, JOSEF**, see Pearson, H. J. "Beyond Petsora eastward". 1899. No. 25015.

**27492. WRIGHT, MAGNUS, von, 1805-1868.** Anteckningar under en ornithologisk resa från Kuopio till Aavasaksa om sommaren år 1856. (Bidrag till Finlands naturkännedom, etnografi och statistik, 1857. Häft. 2, p. 53-85) **Title tr.:** Notes on an ornithological trip from Kuopio to Aavasaksa in the summer of 1856.

Contains a general account of the author's trip from Kuopio to Aavasaksa Mt. (near Torne River, 70 km. north from Haparanda), with ornithological notes on about 80 species of birds recorded en route (p. 62-75). Appended is list of these birds arranged by localities (Aavasaksa p. 79-80, Torneå p. 79); also a list for the Uleåborg (Oulu) region (p. 81-85) compiled by Bruno Fab. Nylander.

**Copy seen:** DLC; MH.

**27493. WRIGHT, MAGNUS, von, 1805-1868.** Finlands foglar, hufvudsakligen till deras dragter. Förre afdelningen. Helsingfors, Finska litter.-sällskap tryck, 1859. xiv, 315 p. (Bidrag till Finlands naturkännedom, etnografi och statistik. Häft. 5) **Title tr.:** Birds of Finland and their plumage, part 1.

Contains a systematic list of 131 species of birds inhabiting Finland, with brief descriptions, dimensions, local names, distribution in Finland, and detailed data

on moult and sequence of plumages (male, female and young birds). Includes many species native to Finnish Lapland. For pt. 2 (especially on geographic distribution), see M. v. Wright, and J. A. Palmén, *Finlands foglar*, 1873.

**Copy seen:** DLC; MH.

**27494. WRIGHT, MAGNUS, von, 1805-1868, and J. A. PALMÉN.** *Finlands foglar, hufvudsakligen till deras dragterbeskrifna af Magnus von Wright. Senare afdelningen, efter författarens död omarbetad med särskild hänsyn till arternas utbredning och utgifven af J. A. Palméns. Helsingfors, Finska litter.-sällskap. tryck., 1873. xvii, 681, iv p. (Bidrag till kännedom af Finlands natur och fold. Häft. 22) Title tr.: Birds of Finland and their plumage described by Magnus von Wright, part 2; revised after his death, with special reference to the geographic distribution of the species, and edited by J. A. Palmén.*

*Contains a critically revised systematic list of 131 species native to Finland, based on the senior author's work of similar title published in 1859, q. v. Descriptions (male and female) are given, dimensions, plumage by seasons (by M. v. Wright), local names, critical notes and data on distribution in Finland, Scandinavia and Kola Peninsula. Includes many species native to northern regions.*

**Copy seen:** MH-Z.

**27495. WRIGHT, WILLIAM PRESTON, 1901-** . *The Alaska Highway; how we may put it to peacetime work, an investigation sponsored by the Great Falls Tribune, Great Falls, Montana. Prepared by staff correspondent W. P. (Luke) Wright. [Great Falls] 1945. 35, [1] p., illus. (incl. map).*

Twelve articles first published in the *Great Falls Tribune*, Sept. 26 to Oct. 7, 1945, giving a journalist's account of the completion, importance, potential uses and profitability of this road, noting its significance to Great Falls "the U. S. departure point for the only north-south connecting road with Alaska Highway.

**Copy seen:** DLC.

**27496. WÜRSCH, JOSEF, 1922-** . *Untersuchungen über die Lipode aus den Gonaden des Wales. Zürich, Dissertationenverlag, 1950. 56 p. diags. Title tr.: Investigations on the lipids from the gonads of whales.*

*Contains a doctoral thesis, dealing with neutral lipoids (fat-like substances)*

of the ovaries and testes of blue and finback whales. The material was collected and frozen on a whaler and kept at  $-0^{\circ}$  C. to  $-20^{\circ}$  C. till investigated. The neutral lipoids were extracted with ether according to the method of Ogata and Hirano, and examined for the presence of compounds occurring in small amounts. Procedures and lists of isolated substances, etc., are given. Bibliographical footnotes.

**Copy seen:** DLC.

**WULFSBERG, N.,** *see* Blytt, A. G. *Bidrag om vegetationen paa Nowaja Semlja. 1873. No. 20736.*

**27497. WULSIN, FREDERICK R.** *Adaptation to climate among non-European peoples. (In: Newburgh, L. H., ed. Physiology of heat regulation and the science of clothing, 1949. p. 3-69, diag., table)*

*Contains two parts, on adaptation to cold, and to heat. The former includes a section on circumpolar peoples (p. 4-22), the Eskimos, Chukchis, Koryaks and Yakuts; and deals with their habitat, including topography, climate, plant and animal life; their culture; housing, heating arrangements, bedding, etc.; clothing with emphasis on its protective value. Of special interest to the problem of cold adaptation, is a section on the naked people exposed to cold (p. 26-35); the Fuegians and the Australian aborigines. Bibliography (over 60 items).*

**Copy seen:** DLC.

**WULSIN, FREDERICK R.,** *see also* National Research Council. Subcommittee on Clothing. *Clothing test methods. 1945. No. 24577.*

**27498. WUORENTAUS, YRJÖ.** *Kamtschatkan länsirannalla. (Terra, 1919. v. 31, p. 115-28, 2 plates) Title tr.: On the western shore of Kamchatka.*

*Contains a sketch of the larger animals, plant life, inhabitants, salmon and the fishing industry of Kamchatka, where the author traveled and made some collections in 1917.*

**Copy seen:** DLC.

**27499. WUORENTAUS, YRJÖ.** *Muistoja matkalta Pohjois-Siperian tundran laiteille. (Terra, 1917. v. 29, p. 45-72, illus.) Title tr.: Notes on the trip to the edge of the northern Siberian tundra.*

*On the basis of his observations during a trip in 1915 from Finland to Krasnoyarsk by train and thence by boat down the Yenisey River to Dudinka and the*

Kara Sea, the author, a botanist, describes (with 12 photographic illus.) the inhabitants, settlements, topography, fishing industry, and the animal and plant life of the regions traversed.

*Copy seen:* DLC.

**WUORENTAUS, YRJÖ**, *see also* Forsius, R. Über d. in Kamschatka gesammelten Tenthredinoiden. 1928. No. 21875.

**WUORENTAUS, YRJÖ**, *see also* Lindberg, Håkan. Über Heteropteren Jenisejsk. 1921. No. 23866.

**27500. WURMBRAND, DEGENHARD, Graf.** Herren der Wildnis; Jagdfahrten im westen Nordamerikas und Kanadas. Berlin, P. Parey [1936]. iv, 287 p., 32 plates on 16 l., 2 fold. maps. *Title tr.*: Masters of the wild; hunting trips in western North America and Canada.

Includes Alaska (p. 69-163) Yukon Territory (p. 208-277).

*Copy seen:* DLC.

**27501. WUSTMANN, ERICH.** Einödsstrassen des Nordens und ihre Begleiteerscheinungen. (Polarforschung, 1948, *pub.* 1950. Bd. 2, Jahrg. 18, p. 40-41, i. e. p. 236-37) *Title tr.*: Wilderness roads of the North and their consequences.

Discussion of changes in the life of Lapps accelerated during World War II: roads and modern transportation are increasing contacts with the "outside" which affect Lappish customs and habits.

*Copy seen:* DGS.

**27502. WUSTMANN, ERICH.** Vom Wesen der Rentiere. (Polarforschung, 1951. Bd. 3, Jahrg. 21, p. 27-30) *Title tr.*: On the present condition of the reindeer.

Discussion of the situation in Lapland: the scarcity of wild deer, dangers of inbreeding in herds, differences between domesticated and wild animals, uses of the deer, their abilities (speed, endurance, etc.); superiority of deer from the Soviet North where a supply of purely wild stock is available for interbreeding; differences between mountain and forest deer; and migration. *Copy seen:* DGS.

**27503. WYATT, TYREE C., and others.** Hypervitaminosis A; report of a case. (American Medical Association. Journal Sept. 23, 1950. v. 144, p. 304-305, illus.) *Other authors.* C. A. Carabello and M. E. Fletcher.

Contains data on previous cases reported and the history and physical and

laboratory data of the patient, a girl three years old. The symptoms subsided when a percomorph liver oil containing the vitamin was withdrawn.

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**27504. WYCKOFF, CLARENCE F.** A caribou hunt on Peary's 1898-1902 expedition. (Arctic, Oct. 1952. v. 5, no. 3, p. 178-82, illus.)

The author who traveled to northwest Greenland with the *Erik* on the Peary relief trip in summer 1901, describes hunt in the Inglefield Bredning region, probably on Aug. 13, 1901.

*Copy seen:* DAI; DLC.

**WYLLIE, P. J.,** *see* Drever, H. I., & P. J. Wyllie. Scottish exped. Rink Glacier, W. Greenland. 1951. No. 21542.

**27505. WYNDHAM, C. H., and D. K. C. MACDONALD.** Human immersion and survival in cold water. (Nature, Apr. 21, 1951. v. 167, p. 659-50)

Note on the "relatively independent behavior of "deep and superficial tissues in a cold environment, based on experiments in exercise to produce heat when hands were chilled. Bibliography (5 items).

*Copy seen:* DLC.

**27506. WYNDHAM, C. H., and W. G. WILSON-DICKSON.** Physiological responses of hands and feet to cold in relation to body temperature. (Journal of applied physiology, Sept. 1951. v. 4, p. 199-207, diagrs.)

Experiments on subjects in full protective clothing, exposed in three-hour experiments at sea to ambient temperatures down to  $-12^{\circ}$  C. with varying wind, showed rapid and marked cooling of hands and feet during rest periods. After such cooling, the hands and feet consistently rewarmed when body heat content was restored as a result of comparatively light physical work. Thus the reflex control of blood flow appears to exert a dominating effect on extremity temperatures in cold. With the body heavily clad and body temperature raised by vigorous work, even bare hands were prevented from cooling; with body scantily clad, even raised rectal temperature did not prevent some hand cooling. Bibliography (12 items).

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**27507. WYNNE-EDWARDS, V. C.** The fulmars of Cape Searle. (Arctic, July 1952. v. 5, no. 2, p. 105-117, illus., col. plate, map)

Contains summary of earlier observations and references to the fulmar colony at Cape Searle (67°13' N. 62°30' W.) on the east coast of Baffin Island; a general account of the fulmar, its three geographical races, their characteristics (size of bill, build, coloration) and distribution (one in the North Pacific and two in the North Atlantic). Notes from the author's trip to Cape Searle in Aug. 1950, are given, his observations and estimate of the colony (minimum: upward of 200,000) its composition, etc. Bibliography (13 items).  
**Copy seen:** DLC.

**27508. WYNNE-EDWARDS, V. C.** Wheatears in the Mackenzie Mountains, District of Mackenzie, N. W. T. (Canadian field-naturalist, Mar.-Apr. 1952. v. 66, p. 67)

Contains a field record of *Oenanthe* from 6000 ft. elevation at about 64°20' N. 128°20' W. in the Mackenzie Mts., July 1944. This extends the bird's known range considerably to the southeast.

**Copy seen:** DGS.

**27509. WYSS-DUNANT, ÉDOUARD.** Sur les hauts plateaux groenlandais. Paris, Payot, 1939. 3 p. l., [9]-207 p., illus. (incl. double maps, ports.) plates.  
**Title tr.:** On the high plateaus of Greenland.

Account of the Swiss expedition to Greenland in summer 1938, sponsored by the Academie Alpine Club of Zurich and led by André Roch: the voyage to Angmagssalik (remarks on East Greenland pack ice), ascent of Mt. Forel, exploration and other climbs in Schweizerland (66°30' N. 37°30' W.), the inland ice north of Mt. Forel explored by M. Perez and the author, Plateau du Pourquoi-pas?, highest point in the region 3380 m. (67°30' N. 35°50' W.) Charcot's Dome 3250 m., remarks on mirages, nunatak, etc.; descriptions of Eskimo life and customs; return to Angmagssalik. *Appendix* notes equipment and rations for the Mt. Forel trip; also approximately 75 plants of the region. Includes preface by Eugène Pittard, 6 drawings of Eskimos by Madame Wyss-Dunant, sketch maps of the area explored, showing camps, climbs, etc.  
**Copy seen:** DLC.

**27510. YAGLOU, CONSTANTIN PRODROMUS, 1896-** Thermometry. (*In:* Newburgh, L. H., ed., Physiology of heat regulation and the sciences of clothing, 1949. p. 70-77, table)

Contains a précis of methods of measuring environmental factors as temperature, humidity, wind and radiation and such, for the study of body temperature, a good deal of the paper useful for study of arctic conditions. Bibliography (16 items).  
**Copy seen:** DLC.

**YAGLOU, CONSTANTIN PRODROMUS, 1896-** , see also Behnke, A. R., & C. P. Yaglou. Physiological responses of men to chilling in ice water & rewarming. 1951. No. 20530.

**YAMAMATO, WILLIAM,** see Spealman, C. R., & others. Observ. energy metabolism & water balance of men. 1948. No. 26380.

**27511. YARDLEY, DONALD HOMER, 1917-** . Frost-thrusting in the Northwest Territories. (Journal of geology, Jan. 1951. v. 59, p. 65-69, plate)

Description of frost action on bare outcrops between Great Bear and Great Slave Lakes in Mackenzie District, where there is a well-exposed bedrock, over large areas of which only a thin veneer of glacial debris may be found. Illustrated and discussed are "frost-thrust blocks" some wedge-shaped, all the types of which are controlled by lithology and topography. Discussion also of the physics of freezing of water on rock, the formation of the blocks and the age of frost-thrusting. Bibliography (9 items).  
**Copy seen:** DGS.

**27512. YARMOLINSKY, AVRAHM, 1890-** , editor. Aleutian manuscript collection, by Avrahm Yarmolinsky. New York, The New York Public Library, 1944. 12 p. Reprinted from its Bulletin, Aug. 1944.

Two love songs and three folk tales are offered as samples from the collection of texts made by V. I. Jochelson during his 18 months' stay with the Aleuts (1909-1910), and later deposited in the N. Y. P. L. A note on Aleut phonetics by R. Jacobson is added and bibliography (42 items) on the Aleut language.

**Copy seen:** DLC.

**27513. YARMOLINSKY, AVRAHM, 1890-** . Kamchadal and Asiatic Eskimo manuscript collections, a recent accession. New York, New York Public Library, 1947. 13 p., illus. Reprinted from its Bulletin, Nov. 1947.

Description of the Jochelson collection and text of three Kamchadal tales in Jochelson's translation. A list of works

relating the Kamchadal language follows.

**Copy seen:** DLC.

**27514. YARNALL, ELLIS H.** Franz-Josef Land revisited. (American naturalist, Mar. 1881. v. 15, p. 254-58)

Account (condensed from reports in the London *Times* and *Illustrated London news*) of B. Leigh Smith's voyage in the *Eira*, 1880.

**Copy seen:** DSI-M.

**27515. YERG, DONALD G.** The importance of water vapor in microwave propagation at temperatures below freezing. (American Meteorological Society, Bulletin, May 1950. v. 31, no. 5, p. 175-77, 5 figs., table)

"Nomograms show contribution of vapor pressure to refractive index at various temperatures (0° to -40° C.) and to  $dn/dh$  (slope of the index curve) for temperature inversions in a saturated atmosphere. Modified index of refraction curves computed by neglecting and then by including vapor pressure as obtained from radiosonde flights at Fairbanks and Bethel. Conclusion is that vapor pressure cannot be neglected at temperatures above -35° C."—*Meteorological abstracts and bibliography*, Oct. 1950. v. 1, no. 10, p. 640.

**Copy seen:** DWB; MH-BH.

**YERG, DONALD G.**, see also U. S. Library of Congress. Technical Information Division. Annotated bibliography on snow, ice & permafrost. 1951-52. No. 26960.

**YOU, S. S.**, see Sellers, E. A., & others. Acclimatization & survival rats in cold. 1951. No. 26021.

**YOU, S. S.**, see also Sellers, E. A., & S. S. You. Effect "acclimatization" survival rats in cold. 1951. No. 26022.

**YOU, S. S.**, see also Sellers, E. A., & S. S. You. Role of thyroid in metabolic responses cold. 1950. No. 26024.

**27516. YOUNG, A. C.**, and others. Regional heat loss by temperature gradient calorimetry. (Federation proceedings, Mar. 1950. v. 9, p. 140)

Contains a report on field tests in northern latitudes on unacclimatized and local acclimatized subjects, in which heat loss was measured from 18 separate regions of the body. It was found that the local inhabitants maintained peripheral heat loss at a higher level than unacclimatized individuals. It seems probable that man has considerable ability

to adapt to a cold environment by developing the capacity to maintain adequate peripheral circulation despite strong cold stress.

**Copy seen:** DLC.

**27517. YOUNG, ARTHUR H.** Hunting moose with the bow and arrow. (Outdoor life, June 1924. v. 53, p. 435-37, illus.)

With weapons of his own making, the author added a Kenai Peninsula moose to his list of big game killed by bow and arrow.

**Copy seen:** DI.

**27518. YOUNG, E. J.** Military hygiene problems encountered in the Arctic and Subarctic. (Canadian journal of public health, 1950. v. 41, p. 123-27)

Contains definitions of the arctic and subarctic areas, and discussion of clothing; sleeping bags; shelter; diet (including water); waste disposal; frostbite; snow-blindness, and insect pests.

**Copy seen:** DSG.

**27519. YOUNG, GEORGE ORVILLE.** 1873-. Alaskan trophies won and lost, by G. O. Young. Boston, Christopher Publishing House [c1928]. 248 p., front., plates, plan, fold. map.

An account of a hunting "expedition made [in the summer of 1924?] into the interior of Alaska and the Yukon Territory by a party of three men, of which the author was one."—Pref.

**Copy seen:** DLC.

**YOUNG, H. A.**, see Arctic circular. Conference on Eskimo affairs. 1952. No. 20267.

**27520. YUKON TERRITORY. LAWS, REGULATIONS**, etc. Office consolidation of the Workmen's Compensation Ordinance, Yukon Territory, as assented to April 24, 1917 and as amended to and including the year 1939. [Dawson, P. Powell, King's Printer, 1939]. 16 p.

**Copy seen:** DLC.

**27521. YUKON TRADING, MINING AND EXPLORATION CO.** Alaska, its gold and its best company. [Boston? 1897?] [14] p. illus.

A business prospectus advertising shares in gold mining and trading interests.

**Copy seen:** DLC.

**27522. ZA INDUSTRIALIZATSIIÛ SOVETSKOGO VOSTOKA.** Īakutskafā respublika za desiat' let; sbornik statef pod red. L. B. Gol'dina. [Moskva] Sovetskafā Aziā, 1933. 138 p., fold.

map. **Title tr.:** The Yakut Republic during ten years; a collection of articles under editorship of L. B. Gol'din.

Speeches on the autonomy of the republic, its agriculture, industry, communications, etc., also its cultural and publishing activities. **Copy seen:** DLC.

**27523. ZABELIN, I. M.** O novetsheym podniiatii Severo-zapadnogo poberezh'ia Okhotskogo moria. (Priroda, Aug. 1951. v. 40, no. 8, p. 33-34) **Title tr.:** On a new uplift of the northern western coast of the Okhotsk Sea.

**Contains** data on the structure, appearance and vegetation of a coastal terrace about 200 km. long and 4 km. wide between Capes Nogdan and Gadikan on the coast east of the city of Okhotsk; with conclusion that this part of the coast is rising but that there is not enough evidence on the age of this process.

**Copy seen:** DLC; MH.

**27524. ZABUSOV, IPPOLIT PETRO-VICH.** Nabludeniiia nad rîsniehnymi cherviami (Turbellaria) Solovetskikh ostrovov. Kazan', Tipolitogr. Univ-ta, 1900. 208 p. plates 1-3. (Kazan'. Universitet. Obshchestvo estestvoispytatelei. Trudy, t. 34, vyp. 4) **Title tr.:** Observations on Turbellaria of Solovetskiye Islands.

**Contains** (in pt. I, p. 5-54) systematic descriptions of 39 species (in 20 genera) of the flatworms of the class Turbellaria, inhabiting the waters of Solovetskiye Islands in the White Sea, with the tables for the determination of the families, genera and species, including diagnoses of one new genus (*Bohmigia* n. gen) and seven new species together with data on their total distribution. In pt. II (p. 55-155) are anatomical studies of the most important representatives of the White Sea turbellarians: *Bohmigia maris albi*, n. sp., *Microstoma septentrionale*, *Enterostoma mytili* and *Uteriporus vulgaris*; and in pt. III, (p. 156-63) data on their ecology and general characteristics are presented. Bibliography (60 items). Summary in German, p. 176-99.

**Copy seen:** MH-Z.

**27525. ZABUSOV, IPPOLIT PETRO-VICH.** O turbellariakh Solovetskikh ostrovov, predvaritel'noe soobshchenie. (Kazan'. Universitet. Obshchestvo estestvoispytatelei. Protokoly zasiedanii, 1897. Prilozhenie, nr. 167, p. 1-15) **Title tr.:** On Turbellaria of Solovetskiye Islands, a preliminary report.

**Contains** preliminary notes on marine flatworms (planarians) of the Solovetskiye Islands in the White Sea with discussion of the elements of the fauna, relationship to other northern faunas, distribution, typical forms, data on morphology of some interesting species and a systematic list of 42 species inhabiting these islands' waters. The author's completed report was published as *Nabludeniiia nad rîsniehnymi cherviami solovetskikh o-rov*, 1900, q. v.

**Copy seen:** MH-Z.

**27526. ZABUSOV, IPPOLIT PETRO-VICH.** *Rjabuschinskya schmidtii* n. gen. n. sp. novyi vid i rod Tricladida paludicola iz Kamchatki. (Russkii zoologicheskii zhurnal, 1916. t. 1, vyp. 9-10, p. 273-86, illus.) **Title tr.:** *Rjabuschinskya schmidtii* n. g. n. sp., new species and genus of Tricladida paludicola from Kamchatka.

**Contains** a morphological description of this new planarian found in 1908 in Lake Glubokoye and in some springs of the Kamchatka Peninsula, by A. N. Derzhavin, a member of the Kamchatka Expedition of F. P. Riabushinskii. Summary in French.

**Copy seen:** DLC; MH-Z.

**27527. ZACH, LAWRENCE W.** A northern climax, forest or muskeg? (Ecology, Apr. 1950. v. 31, p. 304-306, illus., diagr.)

Note suggesting that "muskeg represents a physiographic climax" over much of Southeast Alaska, based on observation of over-abundant rainfall, cool temperatures, waterlogging of area by organic matter, and apparent deterioration of the forest bordering the muskeg.

**Copy seen:** DLC; DSI-M.

**ZACHAU, ANDERS R.,** see Lid, J., & A. R. Zachau. Utbredningen av *Viscaria alpina*. 1929. No. 23824.

**27528. ZAGIANSKIĬ, A. L.** On the genetic peculiarities of the manganese ores of the Polunochny deposits. (Akademiiia nauk SSSR. Comptes rendus (Doklady), 1943. nouv. ser., v. 41, no. 5, p. 216-18, diagrs.)

"The manganese ores of the North Urals, Russia, show zoning characteristics. The characters and relations of different beds [area approx. 62° N. 60° E.] are described."—Geological Society of America, *Bibliography and index of geology*, 1943-44, v. 10, p. 147.

**Copy seen:** DLC.

**27529. ZAHM, JOHN AUGUSTINE, 1851-** . Alaska, the country and its inhabitants; a lecture by the Rev. J. A. Zahm . . . delivered before the students of Notre Dame University, December 9, 1885. Notre Dame, Ind., University press, 1886. 27 p., illus.

Based on literature and on the author's trip as a tourist to Sitka and vicinity in summer 1885.

**Copy seen:** DLC.

**27530. ZAITSEV, FILIPP ADAMO-VICH.** Uebersicht der paläarktischen Vertreter der Gattung *Gyrinus* (Linn) Reg. (Coleoptera, Gyrinidae). (Russkoe entomologicheskoe obozrenie, 1907, pub. 1908. t. 7, no. 4, p. 238-44) **Title tr.:** A revision of the palaearctic representatives of the genus *Gyrinus* (Linn) Reg. (Coleoptera, Gyrinidae).

Contains a critical revision of palaearctic beetles of the genus *Gyrinus* with a key to the species and an enumeration of 23 (with Latin description of two new) species; includes a few native to northern Scandinavia and Siberia.

**Copy seen:** DLC; MH-Z.

**27531. ZAITSEV, FILIPP ADAMO-VICH.** Zametki o nekotorykh predstavitelakh r. *Notiophilus* Dum. (Coleoptera, Carabidae). (Russkoe entomologicheskoe obozrenie, 1916. t. 15, no. 4, p. 572-77) **Title tr.:** Notes on some representatives of the genus *Notiophilus* Dum. (Coleoptera, Carabidae).

Contains critical notes on a few species of beetles of the genus *Notiophilus* from various regions of Russia, including *N. germyi* occurring in Kola Peninsula and Arkhangel'sk province.

**Copy seen:** DLC; MH-Z.

**ZAKHAROVA, A. A.,** see Levin, O. A., & others. Klinika i lechenie otmorozhenii. 1940. No. 23808.

**27532. ZAKS, IVAN G.** Biologiya i promysel kraba (*Paralithodes*) v Primor'e. (Akademiya nauk SSSR. Dal'nevostochnyy filial, Vladivostok. Vestnik, 1936. no. 18, p. 49-80, illus.) **Title tr.:** The biology and the catching of the crab (*Paralithodes*) in the Maritime Province.

Contains a systematic survey of four commercial species of crabs of the Far Eastern seas, with a morphological sketch of *Paralithodes camtschatica*, data on its biology, geographic distribution and

ecology; and a study of the crabbing industry in the Japan Sea.

**Copy seen:** DLC; MH-Z.

**ZALESKY, MOSES,** see Wells, L. J., & M. Zalesky. Effect of low temperature on reproductive organs of male mammals. 1940. No. 27327.

**27533. ZALESSKIĬ, MIKHAIL DMITRIEVICH, 1877-1946.** O prisutstvii v Verkhofianskom khrebte Nizhnepermskikh osadkov. (Akademiya nauk SSSR. Izvestiya, seriya 7, Otdelenie fiziko-matematicheskikh nauk, 1930, no. 3, p. 217-22, illus., plates 1-2) **Title tr.:** On the presence of lower Permian deposits in the Verkhoyansk Range.

Contains descriptions of three new fossil plants, including a diagnosis of *Noeggerathiopsis theodori* n. sp. found in 1928 by I. A. Shtemberger in lower Permian deposits on the southern slope of Verkhoyansk Range (Aldan River) eastern Siberia. **Copy seen:** DLC; MH.

**27534. ZALESSKIĬ, MIKHAIL DMITRIEVICH, 1877-1946.** Observations sur les végétaux Permians du bassin de la Petchora, I. (Akademiya nauk SSSR. Izvestiya, seriya 7, Otdelenie matematicheskikh i estestvennykh nauk, 1934, no. 2-3, p. 241-90, illus.) **Title tr.:** Observations on Permian plants of the basin of Pechora River, I.

Contains diagnoses of 43 fossil plants from the Permian deposits, including 40 new species, gathered by various collectors. Summary in Russian.

**Copy seen:** DLC; MH.

**27535. ZALESSKIĬ, MIKHAIL DMITRIEVICH, 1877-1946.** Observations sur trois végétaux nouveaux paléozoïques. (Akademiya nauk SSSR. Izvestiya, seriya 7, Otdelenie matematicheskikh i estestvennykh nauk, 1933. no. 9, p. 1387-90, illus.) **Title tr.:** Observations on three new Paleozoic plants.

Contains a diagnosis of *Lepeocaulus aphyllus* n. gen. et sp., a new fossil plant from calcareous Devonian deposits of Novaya Zemlya. Summary in Russian.

**Copy seen:** MH.

**27536. ZALESSKIĬ, MIKHAIL DMITRIEVICH, 1877-1946.** Rasprostraneniye iskopaemol flory, rodstvennoy gondavanskol, v predelakh severnoy chasti Evrazii. (Akademiya nauk SSSR. Izvestiya, seriya 7, Otdelenie fiziko-matematicheskikh nauk, 1930, no. 9, p. 913-30, illus.)

**Title tr.:** Extension of the fossil flora related to Gondwana, in the northern part of Eurasia.

Contains a discussion of the extension of so-called "Angarid flora" (Angara continent), related to Gondwana, in the northern section of Eurasia, including data on its northern limits in the Pechora region (67° N.), Northern Ural and in northern Siberia (Tunguska River region), with data on subdivision of this fossil flora and notes on typical forms from various regions. **Copy seen:** DLC; MH.

**27537. ZALESSKIĬ, MIKHAIL DMITRIEVICH, 1877-1946.** Structure anatomique du stipe du *Petcheropteris splendida* n. g. et sp., un nouveau représentant des Osmundacées permienues. (Akademiia nauk SSSR. Izvestiia, seriia 7, Otdelenie matematicheskikh i estestvennykh nauk, 1931, no. 5, p. 705-710, plates 1-2) **Title tr.:** Anatomical structure of the stipe of *Petcheropteris splendida* n. g. et n. sp., a new representative of Permian Osmundaceae.

Contains an anatomical study of the stipe of the fossil fern, *Petcheropteris splendida*, found in 1929 by T. Dobroliubova in Permian sediments on the bank of a small river of the Pechora basin. Summary in Russian.

**Copy seen:** DLC; MH.

**27538. ZALESSKIĬ, MIKHAIL DMITRIEVICH, 1877-1946.** Sur le *Syniopteris nesterenkoi* n. g. et sp. et le *Syniopteris Demetriania* n. g. et sp., nouveaux végétaux permienues. (Akademiia nauk SSSR. Izvestiia, seriia 7, Otdelenie fiziko-matematicheskikh nauk, 1929, no. 8, p. 729-36, illus.) **Title tr.:** On *Syniopteris nesterenkoi* and *S. demetriania* n. gen. et. spp., new Permian plants.

Contains a description of the imprints of the leaves of a fossil plant found first by Miss M. Shulga-Nesterenko in Permian deposits in the Pechora River basin, and recorded again in 1927 by H. Chirkova from the same region, with a comparative study of another plant of the same genus collected in Permian deposits of the Suchan region in the Far East. The first plant is named *S. nesterenkoi* n. sp., the latter (from the Far East) *S. demetriania* n. sp.

**Copy seen:** DLC; MH.

**27539. ZARETSKIĬ, D. N.** Bor'ba s mochezhnami na aërodromakh. (Grazhdanskaiia aviatsiia, 1940, no. 6, p. 18-19,

illus.) **Title tr.:** The struggle against puddles on airfields.

The very varied microrelief in the areas of permafrost due to mounds, holes, puddles, etc., makes it necessary to increase the development of summer airfields. Particularly puddles have to be eliminated, the depressions carefully cleared of peat and re-filled with non-porous soil. These wet spots re-form and should be treated during the dry season, in spring before (or in the fall after) the heavy rains. Troublesome stone deposits should also be removed and the holes thus created should immediately be filled with non-porous soil. **Copy seen:** DLC.

**27540. ZAVARITSKIĬ, ALEKSANDR NIKOLAEVICH, 1884-1950.** Izucheniie sovetskikh vulkanov. (Pobezhdennye vershiny, 1951, p. 215-39) **Title tr.:** Study of Soviet volcanoes.

Contains historical data on the study of vulcanological investigation of the Kamchatka Peninsula (S. Krasneninikov, K. J. Bogdanovich, expeditions of the Academy of Sciences, etc.); brief descriptions of the most important of 129 Kamchatka volcanoes (Avacha, Klyuchevskaya, Shiveluch, Ksudach, etc.) and of the recent eruptions of Klyuchevskaya Sopka (in 1944) and Shiveluch.

**Copy seen:** MH.

**27541. ZAVARITSKIĬ, ALEKSANDR NIKOLAEVICH, 1884-1950.** Nekotorye fakty, kotorye nado uchityvat' pri tektonicheskikh postroeniiaakh. (Akademiia nauk SSSR. Izvestiia, seriia geologicheskaiia, 1946, no. 2, p. 3-12, text maps) **Title tr.:** Some facts to be taken into consideration in tectonic hypotheses.

"The author calls attention to deep focus earthquakes within Circumpacific zone and gives as an example a part of this zone, namely the region of the Okhotsk Sea, Kamchatka and the Kurile Islands constituting one of the most typical tectonic arcs of the Far East (fig. 3)"—p. 11; and discusses some recently proposed tectonic hypotheses in the light of these facts. Summary in English.

**Copy seen:** MH.

**27542. ZAVARITSKIĬ, ALEKSANDR NIKOLAEVICH, 1884-1950.** Novoe izverzhenie vulkana na Kamchatke. (Priroda, 1952, t. 41, no. 1, p. 102) **Title tr.:** A new eruption of the volcano on Kamchatka Peninsula.

Contains a brief report on an eruption of Klyuchevskaya Sopka, on Nov. 20, 1951, and formation of a crater, named "Krater Bylinkinof" on northeastern slope of that volcano. **Copy seen:** MH.

**ZAVARITSKIĬ, ALEKSANDR NIKOLAEVICH, 1884-1950**, see also Dobrokhoto, I. S. Aéros'emka v vulkan. éksped. 1951. No. 21485.

**27543. ZAVATTI, SILVIO, 1917-** Bericht über die bisherige Tätigkeit des Instituto Geografico Polare in Forlì. (Polarforschung, 1949, pub. 1950. Bd. 2, Jahrg. 19, p. 286-87) **Title tr.:** Report on activities of the Polar Geographic Institute in Forlì.

Information concerning a polar research institute in Forlì, Italy, established by the author in 1944; its members (from various universities), the quarterly publication, and future plans.

**Copy seen:** DGS.

**27544. ZAVATTI, SILVIO, 1917-** Die Polar-Kartographie in Italien. (Polarforschung, 1951. Bd. 3, Jahrg. 21, p. 49-51) **Title tr.:** Polar cartography in Italy.

On the maps of both polar regions, with some notes on their inaccuracies. Bibliography (11 items). **Copy seen:** DGS.

**27545. ZAVATTI, SILVIO, 1917-** Le regioni polari artiche. (L'Universo, maggio. 1952. Anno 32, p. 367-81, 4 plates) **Title tr.:** The arctic polar region.

Brief physical characterization of the North American and Eurasian arctic islands (exclusive of Svalbard).

**Copy seen:** DGS.

**ZDRAVOMYSLOV, V. K.,** see Akademiâ nauk SSSR. Khibinskaiâ gornaiâ stantsiâ. Khibinskaiâ gornaiâ stantsiâ. 1934. No. 20100.

**27546. ZEGBART, D. K.** Nekotorye novye dannye k stratigrafii i litologii kembrijskikh otlozhenii Leno-Aldanskogo mezhdurech'ia. (Moskovskoe obshchestvo ispytatelei prirody. Bülleten', 1939. novaiâ seriâ. t. 47, Otdel geol. t. 17, vyp. 2-3, p. 31-46, illus.) **Title tr.:** Some new data concerning the stratigraphy and lithology of the region between the Lena and Aldan Rivers.

Contains a description of the lithology and petrography of the Lower Cambrian deposits, with a detailed sequence of these sediments and calculation of absolute heights of separate horizons and the surface of pre-Cambrian crystalline base;

the data on inclination of the Aldan massif and analyses of carbonate and argillaceous carbonate rocks help to establish the direction of oscillatory movement of the Aldan massif during the Cambrian epoch. Summary in English. **Copy seen:** DLC; MH-Z.

**27547. ZEKKEĬ, I. A. D.** Mestonakhozhdenie ostatkov permskikh nasekomykh v basseine r. Kuloia. (Akademiâ nauk SSSR. Paleontologicheskii institut. Trudy, 1940. t. 11, vyp. 2, p. 81-94, text map) **Title tr.:** Localities of Permian fossil insects in the basin of River Kuloy.

Contains historical data on the geological and paleontological investigation of the basin of the Soyana River (a left tributary of the Kuloy at 65°39' N. 42°50' E.) Arkhangel'sk province; localities where fossil insects were found, characteristics of the geological structure, conditions leading to formation of this facies, named by the author "Iva-Gora facies," belonging to the Kazan stage of the upper Permian. See also E. E. Bekker-Migdisova (1940) for companion paper. Summary in English.

**Copy seen:** DLC; MH-Z.

**27548. ZEKKEĬ, I. A. D.** Tatarskie sloi nizov'ev Mezeni i mestonakhozhdenie kostel reptilii v nikh. (Akademiâ nauk SSSR. Paleontologicheskii institut. Trudy, 1937. t. 8, vyp. 1, p. 45-63, illus.) **Title tr.:** Tatar strata of the Mezen' River estuary and the localities of the fossil reptile remains.

Contains a geological description of the Mezen' estuary region in Arkhangel'sk province, and especially deposits of the Tatarian beds (divided by the author into three horizons) bearing the fossil reptile remains; description of such localities and data on the climate of that geological epoch are given. Summary in German.

**Copy seen:** MH-Z.

**27549. ZELENIN, DMITRIĬ KONSTANTINOVICH, 1878-** Obychai "dobrovol'noi smerti" u primitivnykh narodov. (In: Akademiâ nauk SSSR. Institut étnografii. Pamiaty V. G. Bogoraza (1865-1936), 1937, p. 47-78) **Title tr.:** The custom of "voluntary death" among primitive peoples.

Author develops the case that in speaking of the "voluntary death" among the Chukchis, Bogoraz (and other authors) have confused the practice of suicide in

the class society with examples of the survival of the archaic voluntary death of old and sick people. In former times, such persons were left to die or were directly killed, and such a violent death was considered both heroic and normal, so that old people themselves asked for it. In a society passing to the sedentary way of life and division of labor on the other hand, natural death came to be considered normal, and long-lived old persons became objects of the "cult of ancestors". To a later period belongs the "voluntary death" as a personal act of revenge, and as a means of class struggle.

**Copy seen:** DLC.

**27550. ZELENIN, DMITRIĬ KON-STANTINOVICH, 1878-** . Tabu slov u narodov vostochnoi Evropy i Severnoi Azii, chast' 1-2. (Akademiia nauk SSSR. Muzei antropologii i étnografii. Sbornik, 1929, t. 8, p. 1-151; 1930, t. 9, p. 1-166) **Title tr.:** Tabu words among the peoples of the eastern Europe and northern Asia, pt. 1-2.

*Contains a comparative ethnological study. Pt. 1, Prohibitions in hunting and other occupations, deals with the widespread belief that wild animals can hear and understand human speech; therefore the hunter must not mention animals by real name but must use substitutes, names or words in a foreign language (hence the development of the hunters' secret language); animals have an acute sense of smell and dislike the odor of women's menstrual blood and other secretions. Therefore, hunters must stay away from women immediately before going on a hunt, or must purify themselves by fumigation and washing; the ceremonies performed for a slain animal are to help its rebirth; the spirit of the forest rules over wild animals, therefore the hunter must avoid offending this spirit (e. g. by mention of objects of Christian worship), or cheating him. These tabus the author shows have no connection with totemism, or animism, or animal worship; they derive simply from an exaggerated conception of wild animals' sense of hearing and smell. Throughout the study are many references to such beliefs and customs among the Yakuts, Aleuts, Ob-Ugrians, Zyryans, Tungus, Yukaghirs, Golds, Samoyeds, Lapps, and others.*

*Pt. 2, Prohibitions in domestic life, deals with the magic power of some words, e. g. names for domestic animals,*

*plants, fire and water, the names of diseases, spirits, gods and magicians, personal names of the living and dead, etc. Such words may not be used freely or carelessly, lest some mischief or misfortune befall. Summary in German (to pt. 1 only) t. 8, p. 146-51.*

**Copy seen:** DLC.

**27551. ZELENIN, DMITRIĬ KON-STANTINOVICH, 1878-** . V. G. Bogoraz, étnograf i folklorist. (In: Akademiia nauk SSSR. Institut étnografii. Pamiat' V. G. Bogoraza, 1865-1936, pub. 1937, p. V-XVIII) **Title tr.:** V. G. Bogoraz as ethnographer and folklorist.

*Contains account and appraisal of the career of Bogoraz who began his ethnographic work in 1889 when a political deportee in the Kolyma district of Yakutia. There he took records of folkloristic and dialect materials from the Russians on the River Kolyma. His ethnographic field work also began among these people but his life work became the study of the Chukchis. He was however, of the imperial regime and did not offer sociological analyses. Further he was influenced by the views of some American ethnographers, and by the fact that he was a literary man (a writer of prose and poetry) rather than a scientist. Brief biographical data are added.*

**Copy seen:** DLC.

**ZELENKO, L. L.,** see Laikhovich-Sushkova, M. L., & L. L. Zelenko. "Zona komforta" doshkol'nogo vozrasta. 1950. No. 23820.

**ZELENKOV, I. V.,** see Eliseev, N. A., & others. Geol. stroenie Lovozerskikh tundr. 1938. No. 21643.

**27552. ZELIĀKOV, N. V.** The nature of ordinary ice. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1937. nouv. ser., v. 14, no. 4, p. 183-86)

*Two modifications of ice,  $\alpha$  and  $\beta$  ice, were found. Their respective descriptions are offered.* **Copy seen:** DLC.

**27553. ZELIĀKOV, N. V.** Some remarks on  $\alpha$  and  $\beta$  ice. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1936. nouv. ser., v. 2 (11), no. 6 (92), p. 127)

**Copy seen:** DLC.

**27554. ZELIKMAN, E. A.** Trematody kak komponenty litoral'nogo kompleksa moria (Vsesoiuznoe gidrobiologicheskoe

obshchestvo. Trudy, 1950. t. 2, p. 214-30) **Title tr.:** Trematodes as components of the littoral complex of the sea.

*Contains the results of three years' (1946-48) ecological study of the role of trematodes in the life of littoral population of Kandalaksha Bay of the White Sea, with data on the infestation of five species of mollusks by the larvae of trematodes and on factors influencing the fluctuation in the numbers of such infestations.*

**Copy seen:** MH-Z.

**27555. ZELINSKIĬ, N. D.** O khimicheskoi prirode pechorskogo bituma. (Akademiia nauk SSSR. Doklady, 1930. seriia A, no. 14, p. 351-52) **Title tr.:** On the chemical nature of the Pechora bitumen.

*Location and description of the bitumen and its chemical composition are given.*

**Copy seen:** DLC.

**27556. ZELLER, PHILIPP CHRISTOPH, 1808-1883.** Skandinavien fjädermott (*Alucita* Lin.) beskriena af H. D. J. Wallengren. Till K. Vet. Akad. inlemnad d. 8 Oct. 1859. (Stettiner entomologische Zeitung, 1867. Bd 28, nr. 7-9, p. 321-39) **Title tr.:** *Alucita* Lin. described by H. D. J. Wallengren, to the Royal Academy Sciences meeting Oct. 8, 1859.

*Contains a critical revision of plume moths of the group *Alucita* Lin. described by Wallengren, including at least five species native to Swedish Lapland.*

**Copy seen:** MH-Z.

**27557. ZEMLĬAKOV, B. F.** Arkticheskii paleolit na severe SSSR. (Akademiia nauk SSSR. Komissiiia po izucheniiu chetvertichnogo perioda. Trudy, 1937. t. 5, vyp. 1, p. 69-87, illus., sketch map) **Title tr.:** Arctic Paleolithic in northern U.S.S.R.

*Results of an expedition of the Soviet section of INQUA (International Quaternary Association) 1936, to Rybachiy Peninsula (northern Kola Peninsula, 69°40' N. 32°40' E.) where three stone age sites were studied from the archeologic and geologic viewpoints, especially the ancient terraces and postglacial basins (called by V. Tanner the *Portlandia* and *Littorina* I transgressions). Bibliography (13 items). Summary in French.*

**Copy seen:** DGS.

**ZENIN, S. S.,** see Belogorskiĭ B., & S. S. Zenin. Polius nash'. 1937. No. 20555.

**27558. ZENKEVICH, LEV ALEKSANDROVICH, 1889-** . Biologicheskaiia struktura okeana. (Zoologicheskii zhurnal 1948. t. 27, vyp. 2, p. 113-24, illus.) **Title tr.:** Biological structure of the ocean.

*Contains the results of a general study of the organic life of oceans and horizontal and vertical fluctuations of the marine fauna, with statistical data on quantitative distribution of algae and benthos in various seas including all arctic seas of the U.S.S.R. and some other extra-Russian seas.*

**Copy seen:** DLC; MH-Z.

**27559. ZENKEVICH, LEV ALEKSANDROVICH, 1889-** . Fauna i biologicheskaiia produktivnost' moria. Moria SSSR. tom 2. Leningrad, Sovetskaiia nauka, 1947. 587 p., illus., maps (1 fold.), tables. **Title tr.:** The fauna and the biological productivity of the sea. Seas of U.S.S.R., v. 2.

*An extensive monograph, based on 25 years' work on Russian seas by the author and his students. The first part is devoted to the arctic seas: general characteristics (p. 11-44); Barents Sea (p. 45-138); White Sea (p. 139-66); Kara Sea (p. 167-89); Laptev Sea (p. 190-94); and Chukchi Sea (p. 195-99). For each sea is given its general characteristics, history of its exploration; physico-geographical, hydrological, hydrochemical and geological characteristics; flora and fauna (plankton: composition, distribution, migration, food value, etc.; benthos: kinds, composition, distribution; biomass, etc.; the fish fauna: general composition; commercial fishes, their growth, food, migrations, etc.; fisheries); zoogeography. At the end (p. 519-38) is a bibliography for all parts of the volume (over 1000 items), also (p. 562-83) an index of species, as well as the usual subject-geographic and author indexes. Vol. 1 of this work has not been located, its scope is indicated (v. 2, p. 8) as: general oceanography, marine biology, ecology and zoogeography in general.*

**Copy seen:** DLC.

**27560. ZENKEVICH, LEV ALEKSANDROVICH, 1889-** , and V. A. BROTSKAIA. Materialy po ekologii rukovodiashchikh form bentosa Barentsova moria. (Moskva. Universitet. Uchenye zapiski, 1937. vyp. 13, Zoologiiia, p. 203-226, text map, diagrs.) **Title tr.:** Some data on the ecology of dominants in the benthos of the Barents Sea.

Contains data on the evaluations of bottom complexes of marine fauna of Barents Sea with the aid of diagrams and density curves of the benthos population; the influence of certain factors on benthos distribution and the method proposed by the author for their evaluation is discussed. This study is based on collections of the State Oceanographic Institute, 1924-33. Summary in English.

**Copy seen:** DLC; MH-Z.

**27561. ZENKEVICH, LEV ALEKSANDROVICH, 1889-** . Moria SSSR i ikh fauna. Stenogramma publichnoy lektsii, pročitannoy v tsentral'nom lektorii obshchestva v Moskve. Moskva, Izd-vo "Pravda", 1948. 23 p., illus. (Vsesoyuznoe obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy) **Title tr.:** The seas of the U.S.S.R. and their fauna. Stenograph of a public lecture delivered in the central lecture hall of the Society in Moscow.

Contains (as a lecture before the Society for the dissemination of political and scientific information) an historical sketch of Russian marine research; a qualitative and quantitative appraisal of life in the sea and on land; on the surface and in the depth of the sea; at various distances from the shores and in various latitudes; fish migrations and fisheries; the Russian seas, their life and fisheries (includes arctic seas).

**Copy seen:** DLC.

**27562. ZENKEVICH, LEV ALEKSANDROVICH, 1889-** . Nekotorye momenty zoogeografii severnogo polarnogo basseina v svyazi s voprosom o ego paleogeograficheskom proshlom. (Zoologicheskii zhurnal, 1933. t. 12, vyp. 4, p. 17-34, text maps) **Title tr.:** Contributions to the zoogeography of the polar basin with reference to its palaearctic past.

Contains a zoogeographical study of the ichthyological fauna of the polar basin, based on an investigation of the geographic distribution of the fam. Gadidae and Salmonidae in arctic regions. The origin of such fauna in relation to geological history of the regions is the author's particular concern. Summary in German.

**Copy seen:** DLC; MH-Z.

**27563. ZENKEVICH, LEV ALEKSANDROVICH, 1889-** . Nekotorye nabludeniya po obrastaniyu v Ekaterinskoy bukhte, Kol'skiy zaliv. (Moskovskoe obshchestvo ispytateley prirody. Bülleten', 1935. Otdel biol. novaya seriya.

t. 44, vyp. 3, p. 103-112, diagr.) **Title tr.:** Some observations on fouling in Ekaterinskaya Bay, Kola Bay.

Contains the results of investigations carried out by the author in Kola Bay, Barents Sea, on hard substrata in fresh and sea water "fouled" with molluscan encrustations; data are given on the rate of growth of *Balanus balanoides*, *Mytilus edulis* and Hydroidea (number of specimens, weight in grams, total weight of the encrustation, etc.) for every month.

**Copy seen:** DLC; MH-Z.

**27564. ZENKEVICH, LEV ALEKSANDROVICH, 1889-** . Nekotorye problemy biogeografii moria kak chasti obshchey geografii. (Voprosy geografii, 1951. Sbornik 24, p. 234-50) **Title tr.:** Some problems of the biogeography of the sea, as parts of general geography.

Contains a discussion and analysis of bipolarity of marine life, both plant and animal. Taking the equatorial plane as a plane of symmetry, the author stresses the symmetrical distribution, towards both poles, of species' abundance, quantity, systematic composition, rate of growth, life span, body size, etc. Geographical, geological and other factors which may be responsible for this phenomenon are discussed. Bibliography (24 items).

**Copy seen:** DLC.

**27565. ZENKEVICH, LEV ALEKSANDROVICH, 1889-** . O drevnosti vozniknoveniya kholdnovodnoy morskoy fauny i flory. (Akademiya nauk SSSR. Institut okeanologii, Trudy 1949. t. 3, p. 191-99, diagrs., table) **Title tr.:** On the antiquity of the emergence of the cold-water fauna and flora.

Contains an analysis of the problem with reference to paleoclimatology, climatic zonality, geographical latitude and size of sea in their relation to the number of species, etc. The author concludes that both the cold-water fauna and climatic zonation are of old standing. Bibliography (11 items).

**Copy seen:** DLC.

**27566. ZENKEVICH, LEV ALEKSANDROVICH, 1889-** . Russkie issledovately fauny morey. (Akademiya nauk SSSR. Institut istorii estestvoznaniya. Trudy, 1948. t. 2, p. 170-96) **Title tr.:** Russian investigations of marine fauna.

Contains an historical review of this work, with emphasis on the achievements during the Soviet régime; includes data

on expeditions for the study of the fauna of northern seas (Barents, White and Kara Seas) p. 179-83, and the seas of the Far East (Okhotsk and Bering Seas); bibliography (129 items).

**Copy seen:** MH.

**27567. ZENKEVICH, LEV ALEKSANDROVICH, 1889-** . Uspekhi izucheniiā morskoi fauny SSSR za 20 let. (Zoologicheskii zhurnal, 1937. t. 16, vyp. 5, p. 830-70, illus., text maps) **Title tr.:** The results of the study of marine fauna of the U.S.S.R. for twenty years.

**Contains** data on the progress of this study during 1917-37, and on many expeditions in the arctic seas and their achievements; bibliography (about 200 items).

**Copy seen:** DLC; MH-Z.

**ZENKEVICH, LEV ALEKSANDROVICH, 1889-** , see also Bobrinskoi, N. A., & others. Geog. zhivotnykh. 1946. No. 20742.

**ZENKEVICH, LEV ALEKSANDROVICH, see also Tarasov, N. I.** More zhivet. 1949. No. 26630.

**27568. ZENKOVICH, B. A.** Dykhanie i svyazannye s nim dvizheniia u krupnykh kitoobraznykh. (Rybnoe khoziaistvo Dal'nego Vostoka, 1935. vyp. 13, kv. 1, p. 67-82) **Title tr.:** The breathing of large whales and the locomotion connected with it.

A detailed study in the breathing of common whales both in the water and out, or on board ship. Includes sections on inhalation and exhalation ("fountain"), intermediate immersion, dive, trail, movements not connected with breathing, and surface-breathing.

**Copy seen:** DLC.

**27569. ZENKOVICH, B. A.** Ėktoparazity nekotorykh krupnykh kitoobraznykh D. V. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1935. no. 13, p. 117-22, illus.) **Title tr.:** Ectoparasites of large-sized cetaceans of the Far East.

**Contains** a study of ectoparasites of various whales, based on observations aboard the whaler *Aleut*; including some material from Okhotsk and Bering Seas.

**Copy seen:** DLC; MH-Z.

**27570. ZENKOVICH, B. A.** Esche o serom kaliforniiskom kite (*Rachianectes glaucus* Cope, 1864). (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1937. no. 23, p. 91-103) **Title tr.:** Further studies on the gray

or California whale (*Rachianectes glaucus* Cope, 1864).

**Contains** characteristics (in brief) of the California gray whale, a table of dimension of this species from various regions, average dimensions, notes on its biology and ecology (rate of growth, feed, migration, propagation, fetuses); statistical data for the whaling seasons 1933-36, economic importance of the California whale and the history of whaling. The paper is based on a study of specimens killed in the Okhotsk, Bering and Chukchi Seas.

**Copy seen:** DLC; MH-A.

**27571. ZENKOVICH, B. A.** The food of the Far-Eastern whales. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1937. nouv. ser., v. 16, no. 4, p. 231-34, tables).

Study based on stomach contents of 703 whales, belonging to nine different species. According to their food habits, they are divided into six classes.

**Copy seen:** DLC.

**27572. ZENKOVICH, B. A.** Gorbatyi ili dlinnorukii kit, *Megaptera nodosa* Bonnatere, 1789. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1937. no. 27, p. 37-62, illus.) **Title tr.:** The hump-back whale, *Megaptera nodosa* Bonnatere, 1789.

**Contains** data on systematics, synonymy and external anatomy of this whale on the basis of observations made during trips of the whaler *Aleut* in Bering, Okhotsk and Chukchi Seas; notes on its biology (rate of growth, feed, pregnancy, migration, etc.), methods of whaling and statistical data on the yield of fat and other products.

**Copy seen:** DLC; MH-A.

**27573. ZENKOVICH, B. A., and A. S. ERDELL.** Iz itogov raboty TIRKHa za 1934 god. (Rybnoe khoziaistvo Dal'nego Vostoka, 1935. vyp. 13, kv. 1, p. 11-34) **Title tr.:** On the results of work of the Pacific Institute of Fisheries for the year 1934.

The report covers the Institute proper and its branches and expeditions. A general part gives an outline of the work of the different divisions, their staff, equipment, budget, etc. Then follow accounts of the sardine, herring and bottom-fish industry; expeditions on the *Lebed* for the study of salmon sea-fisheries, bottom and pelagic trawling; fresh-water

fisheries; crab and mollusc fisheries; whaling; utilization of sea-weeds.

**Copy seen:** DLC.

**27574. ZENKOVICH, B. A.** Kitobol'nyi promysel v Kamchatskom i Beringovom morakh, sezon 1933. (Rybnoe khoz'istvo Dal'nego Vostoka, 1934, no. 1-2, p. 113-18) **Title tr.:** The whaling in Kamchatka and Bering Seas, 1933 season.

A general report mainly from the biological point of view, with tables of monthly catches arranged according to species and monthly yield of whale oil.

**Copy seen:** DLC.

**27575. ZENKOVICH, B. A.** Nablūdeniia nad kitami dal'nevostochnykh morei. (Akademiia nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Trudy, 1936. Seriya zoologicheskaiia. t. 1, p. 5-61, illus.) **Title tr.:** Observations on whales of the Far Eastern seas.

Contains the results of the author's observations on the whales of the Far East, made aboard the *Aleut* during the trip of the first whaling division in Bering and Chukchi Seas in 1932-33; data on Far Eastern whales, the biology, migration and characteristics of six commercial species; whaling ships; hunting; preparations, search, hunt, hoisting of the carcass on the deck, flensing, further treatment of blubber and meat; statistical data on the yield of the blubber and meat of various species; comparison with Norwegian data; weighing of whales; results of the hunting by month, species and sex; and economic aspects.

**Copy seen:** DLC; MH-Z.

**27576. ZENKOVICH, B. A.** Nekotorye nablūdeniia nad kitami Dal'nego Vostoka. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1934. nouv. ser., v. 2, no. 6, p. 388-92) Also published in Rybnoe khoz'istvo Dal'nego Vostoka, 1934, no. 1-2, p. 111-13. **Title tr.:** Some data on whales of the Far East.

Studies made aboard the whaler *Aleut* on the size and sex composition of *Physeter macrocephalus* (Lin.); the weights of different organs and parts of several kinds of whales and the food of the California whale. Translation in English, p. 390-92.

**Copy seen:** DLC.

**27577. ZENKOVICH, B. A.** O zarodyshakh kitov. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1935. Nouv. ser., v. 2, no. 3-4, p. 337-44, 2 tables) Also published in Rybnoe khoz'istvo

Dal'nego Vostoka, 1935. vyp. 13, p. 83-88.

**Title tr.:** On whale fetuses.

Forty-five pregnant females and their fetuses were studied and the age of the latter estimated. On the basis of these studies conclusions are made as to the period(s) and areas of mating, duration of pregnancy; sexual maturity in adults, sexual differentiation in embryos and the rate of growth of the latter. This work results from trips in both arctic and antarctic whaling grounds of the Soviet "floating factory" whaler *Aleut*. Summary in English. **Copy seen:** DLC.

**27578. ZENKOVICH, B. A.** The temperature of whales. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1938. nouv. ser., v. 18, no. 9, p. 685-87, table)

Temperature measurements on five whales in agony and on 40 carcasses show that the temperature of whales is not below that of other mammals.

**Copy seen:**

**27579. ZENKOVICH, B. A.** Weighing of whales. (Akademiia nauk SSSR. Comptes rendus (Doklady), 1937. nouv. ser., v. 16, no. 3, p. 177-82, tables)

No less than three whales of each sex and of three ages, must be weighed in order to obtain a good idea of the weight of the catch. A formula for rough calculations is offered. **Copy seen:** DLC.

**27580. ZENZINOV, VLADIMIR MIKHAILOVICH, 1880-** . With an exile in Arctic Siberia; the narrative of a Russian who was compelled to turn polar explorer for two years. (National geographic magazine, Dec. 1924. v. 46, p. 695-718, illus., map)

Popular sketch of the author's sojourn as a political exile 1912-17 at Russkoye Ustye (71°1' N. 149°26' E.) on the Indigirka River, then at Bulun on the Lena. Observations, with numerous illus., on natives of the region, and a goose hunt in which author participated.

**Copy seen:** CaMAI; DLC

**27581. ZERNOV, M. S.** Nauchno-issledovatel'skaiia deiatel'nost' Murmanskoi biologicheskoi stantsii Akademii nauk SSSR za pervyi period s 1939 po 1946 g. (Akademiia nauk SSSR. Murmanskaiia biologicheskaiia stantsiia, Dal'niye Zelentsy. Trudy, 1948. t. 1, p. 33-38) **Title tr.:** Scientific research work of the Murman Biological Station of the Academy of Sciences of U.S.S.R. for the first period from 1939 to 1946.

Contains outline of each year's investigations noting the scientists concerned in them, with a list of resulting publications which appeared elsewhere than in this organ of the station.

**Copy seen:** DLC.

**27582. ZERNOV, M. S.** O nakhozhenii redkikh vidov ryb na vostochnom Murmane. (Priroda, Sept. 1950. v. 39, no. 9, p. 66-67) **Title tr.:** On the occurrence of some rare fish species in eastern Murman waters.

Contains records of the finds during 1935-46 of some fishes rare to this lower part of Barents Sea. Includes *Scomber scomber*, *Belona vulgaris*, *Chirolophis gallerita* and *Lampetra japonica*. The migration of these fishes is explained by the warming up of the Barents Sea waters.

**Copy seen:** DLC; MH.

**27583. ZERNOV, SERGEĬ ALEKSEEVICH, 1871-1945.** Obshechââ gidrobiologîâ. 2-e izdanie. Moskva. Leningrad, Izd-vo Akademii nauk SSSR, 1949. 587 p. illus. **Title tr.:** General hydrobiology.

Contains many scattered references to northern seas (chiefly Russian) throughout the text; and in chap. 6 on the biological productivity of the water basin, a section on northern seas, p. 467-80. Bibliography (general) about 1300 items.

**Copy seen:** MH-Z.

**ZERNOV, SERGEĬ ALEKSEEVICH, 1871-1945,** see also Pavlovskii, E. N. Pamâti akad. S. A. Zernova. 1948. No. 25005.

**27584. ZETTERSTEDT, JOHAN VILHELM, 1785-1874.** Diptera Scandinaviae disposita et descripta. Lundae, Ex officina Lundbergiana, 1842-60. 14 v.: 1(1842) xvi, 440 p; 2(1843) 441-894; 3(1844) 895-1280; 4(1845) 1281-1738; 5(1846) 1739-2162; 6(1847) 2163-2580; 7(1848) 2581-2934; 8(1849) 2985-3366; 9(1850) 3367-3710; 10(1851) 3711-4090; 11(1852) xii, 4091-4545; 12(1855) xx, 4547-4942; 13(1859) xvi, 4943-6190; 14(1860) 6191-6609. **Title tr.:** Diptera of Scandinavia arranged and described.

Contains a synopsis of the families and genera of the order Diptera (v. 1, p. 1-104) and an enumeration of all Scandinavian species and varieties known at that time, with Latin diagnoses, synonymy and data on habitat and geographic distribution in Scandinavia, Finland and Denmark (v. 1-11) with

index of the genera, species and synonyms for v. 1-11 (v. 11, p. 4367-542); four supplements to various volumes, "Continens Addenda, corrigenda et emendata" (v. 11 (parts)-14); lists of entomologists and collectors, list of localities and alphabetic index of new genera and species described in v. 13 and 14 (v. 15, p. 6571-76), alphabetic index of genera (v. 14, p. 6577-6609); there is also a special index of genera listed in v. 1-7 (v. 7, p. 2919-34); bibliography (55 items), v. 1, p. xii-xvi, continued in v. 7, p. viii-xii (57 items), and in v. 13, p. vii-x (25 items). This fundamental work includes a great number of species native to Swedish Lapland and northern Norway and is based chiefly on the author's own collections made in Lapland and in southern Sweden.

**Copy seen:** DLC; MH.

**27585. ZETTERSTEDT, JOHAN VILHELM, 1785-1874.** Fauna insectorum lapponica, pars I. Hammone, Libraria Schulziane, 1828. xx, 563 p. **Title tr.:** Insect fauna of Lapland, pt. 1.

Contains a general survey of beetles (Coleoptera), orthopters (Orthoptera), and bugs (Hemiptera) of Swedish Lapland, synopses of families and genera for each order and descriptions of all known species and varieties, with synonymy and data on habitat and distribution in Sweden. Pt. 1 only was published.

**Copy seen:** MH-Z; NN.

**27586. ZETTERSTEDT, JOHAN VILHELM, 1785-1874.** Insecta lapponica. Lipsiae, Sumtibus Leopoldi Voss, 1840. 10 p.: 11-1140 columns. **Title tr.:** Insects of Lapland.

Contains (in this basic work issued in parts 1838-40) descriptions of all (then) known species of insects (orders: Coleoptera, Orthoptera, Hemiptera, Hymenoptera, Diptera, Lepidoptera and Neuroptera) occurring in Swedish Lapland, with synopses of families and genera, synonymy and data on habitat and geographic distribution, diagnoses of nine new species (col. 1075-78) and an index of zoological names (col. 1081-1140).

**Copy seen:** MH-Z; NN.

**27587. ZETTERSTEDT, JOHAN VILHELM, 1785-1874.** Monographiae Scopthagarum Scandinaviae. (Société Entomologique de France. Annales, 1835. t. 4, p. 175-89, plate IV, fig. B) **Title tr.:** A monograph of *Scopthaga* of Scandinavia.

Contains a monographic treatment of 14 species and five varieties of dipterous genus *Scatophaga* known from Scandinavia, including at least 9 species native to Swedish Lapland (within its then limits). **Copy seen:** DLC; MH-Z.

**27588. ZETTERSTEDT, JOHAN VILHELM, 1785-1874.** Orthoptera Sveciae disposita et descripta. Lundae, Litteris Berlingianis, 1821. 132 p. **Title tr.:** Orthoptera of Sweden arranged and described.

Contains a general description of Orthoptera, a synopsis of Swedish species (p. 24-29) and descriptions of 48 species and many varieties including at least one, *Blatta lapponica*, native to Swedish Lapland, with synonymy and data on metamorphosis, habitat and geographic distribution. **Copy seen:** ICJ; MH-Z.

**27589. ZETTERSTEDT, JOHAN VILHELM, 1785-1874.** Resa genom Sweriges och Norriges Lappmarken förråttad år 1821. Lund, Berlingska boktryck., 1822. 2 v. (xv, 266 p., 3 plates; 231 p.) **Title tr.:** A journey to Swedish and Norwegian Lapland in 1821.

Contains a narrative of the author's trip from Lund to Swedish (and Finnish) Lapland, through the three northern provinces of Norway and return to Lund, giving a general account of his travels and scattered notes on the vegetation, fauna, especially birds (a few species are described in the footnotes and illustrated on plates), insects, population (Lapps) and climate. Appended are lists of Latin names of 100 birds (v. 2, p. 225-26) and about 320 plants observed (v. 2, p. 227-31). **Copy seen:** CtY.

**ZETTERSTEDT, JOHAN VILHELM, 1785-1874, see also Ahlberg, O. V.** Beitr. z. Zetterstedtschen Thrips-arten. 1918. No. 20073.

**ZETTERSTEDT, JOHAN VILHELM, 1785-1874, see also Benander, P.** Revision v. Microlepidoptera. 1940. No. 20570.

**ZETTERSTEDT, JOHAN VILHELM, 1785-1874, see also Forsslund, K. H.** Revision d. Zetterstedtschen Trichopteren. 1929. No. 21885.

**ZETTERSTEDT, JOHAN VILHELM, 1785-1874, see also Lindroth, C. H.** Revision d. Carabidae. 1938. No. 23911.

**ZETTERSTEDT, JOHAN VILHELM, 1785-1874, see also Ossiannilsson, F.**

Revision Homoptera I, Cicadina. 1938. No. 24893.

**ZETTERSTEDT, JOHAN VILHELM, 1785-1874, see also Ossiannilsson, F.** Revision Homopteren II, Psyllina. 1942. No. 24894.

**ZETTERSTEDT, JOHAN VILHELM, 1785-1874, see also Ossiannilsson, F.** Über Zetterstedts *Cicada lividella*. 1938. No. 24898.

**ZETTERSTEDT, JOHAN VILHELM, 1785-1874, see also Ringdahl, O.** Bidrag till kännedomen av Zetterstedts tachnidtyper. 1934. No. 25543.

**ZETTERSTEDT, JOHAN VILHELM, 1785-1874, see also Ringdahl, O.** Diptera d. Fam. Muscidae. 1939. No. 25547.

**ZETTERSTEDT, JOHAN VILHELM, 1785-1874, see also Ringdahl, O.** Förteckning över Zetterstedts tachiniderna. 1945. No. 25556.

**ZETTERSTEDT, JOHAN VILHELM, 1785-1874, see also Strand, A.** Zetterstedts funn av norske coleoptera. 1945. No. 26482.

**ZETTERSTEDT, JOHAN VILHELM, 1785-1874, see also Tjeder, B.** Revision Neuroptera & Mecoptera. 1940. No. 26740.

**ZETTERSTEDT, JOHAN VILHELM, 1785-1874, see also Wahlgren, E. O.** Revision von Zetterstedts lappländischen Aphidina. 1939. No. 27220.

**ZETTERSTEDT, JOHAN VILHELM, 1785-1874, see also Wahlgren, E. O.** Über drei Zetterstedtsche Geometridae. 1919. No. 27227.

**27590. ZHADIN, V. I.** Fauna rek i vodokhranilishch: problema perestroiki fauny rek SSSR v svyazi s stroitel'stvom gidrotekhnicheskikh sooruzheniy. (Akademika nauk SSSR. Zoologicheskii institut. Trudy, 1940. t. 5, vyp. 3-4, p. 519-991, illus.) **Title tr.:** River fauna and water reservoirs: the problem of reconstruction of the fauna of rivers under the influence of hydrotechnical construction.

**Contents (tr.) include:** Chap. 7 (p. 698-722). Hydro-biological investigation of rivers of Kola Peninsula (Varzuga and Umba). 8 (p. 722-54). Comparative characteristics of faunistic living conditions in rivers, inundated estuaries and water basins. 9 (p. 754-853). System-

atic ecological estuaries and water-reservoirs. 10 (p. 858-919). Comparative survey of biocenoses of the same. 11 (p. 919-42). Influence of hydrotechnical construction on the biological régime and fauna of rivers. General and theoretical problems discussed include: the zoogeographical origin of the fauna studied; the imprint of the glacial period; penetration of marine forms into the fresh waters; biocenoses and biomes (including biomes of the northern rivers); theoretical basis for prognoses on changes due to hydrotechnical interference such as: construction of new channels, reservoirs, lakes, ponds, etc. Dealing with the vital problem of the productivity of fresh waters, the author shows the problem to center around the stocking of water with organic material, which he terms "accumulation". With the increase of "accumulation" there is an increase of biological productivity of the bottom fauna up to a certain, optimal, point. When "accumulation" increases further, a decrease in productivity of the bottom fauna takes place. Practical implications and applications of this theory are suggested. Author also defines the term hydrobiology to include not only the organism, environment relation, but also the laws governing the biological processes in a body of water and the body of water as a whole, from the biological standpoint. Bibliography (about 450 items). Summary in English, p. 982-91. **Copy seen:** DLC; MH-Z.

**27591. ZHADIN, V. I.** Uspekhi gidrobiologicheskogo izuchenija rek SSSR. (Akademiya nauk SSSR. Izvestiya. Otdelenie matematicheskikh i estestvennykh nauk. Seriya biologicheskaya, 1937, no. 5, p. 1547-54) **Title tr.:** Progress of hydrobiological studies of the rivers in U.S.S.R.

*Contains data on hydrobiological research during 1917-1937 in various rivers, including some in Kola Peninsula (p. 1549), the Ob', Yenisey and some in Kamchatka Peninsula (p. 1551-52), with brief notes on biocenoses of various rivers. Summary in English.*

**Copy seen:** MH.

**27592. ZHADIN, V. I.** Zhizn' v iskusstvennykh vodomakh. (In: Akademiya nauk SSSR. Zoologicheskii institut. Zhizn' presnykh vod SSSR, 1950. chast' 26, p. 571-622, illus.) **Title tr.:** Life in artificial water bodies.

The biology in different types of artificial water bodies (reservoirs, ponds,

irrigation canals) is outlined. Scattered references to arctic conditions are found in the sections on reservoirs and ponds. Bibliography (about 100 items).

**Copy seen:** DLC.

**27593. ZHADIN, V. I.** Zhizn' v rekakh. (In: Akademiya nauk SSSR. Zoologicheskii institut. Zhizn' presnykh vod SSSR, t. 3, 1950. chast' 24, p. 113-256, illus., tables) **Title tr.:** Life in the rivers.

In addition to a comprehensive account of the physical, chemical, ecological and other aspects of life in rivers in general, the author deals in the chapter on river deltas (p. 229-43) with the lower Yenisey and its delta. In classifying the rivers (p. 244-56) he distinguishes and describes three hydro-biological types peculiar to the arctic region: the Ob' type of river life, the Yenisey type and the Kola type. Bibliography (about 100 items).

**Copy seen:** DLC.

**ZHADIN, V. I.,** see also Akademiya nauk SSSR. Zoologicheskii institut. Zhizn' presnykh vod SSSR. 1940-50. No. 20103.

**27594. ZHELOKHOVTSSEV, A. N.** Obzor pili'shechikov podsem. Cladiinae (Hymenoptera, Tenthredinidae) fauny SSSR. (Zoologicheskii zhurnal, 1952. t. 31, vyp. 2, p. 257-69, illus.) **Title tr.:** A review of sawflies of the subfam. Cladiinae (Hymenoptera, Tenthredinidae) of the fauna of the U.S.S.R.

*Contains a description of the hymenopterous genus Cladius, a table for the determination of the species, and an enumeration of ten species, including C. pectinicornis (Murman coast and Kamchatka), C. pallipes from the same region and C. tener, native to Kamchatka Peninsula.*

**Copy seen:** MH-Z.

**ZHIKHAREV, N. S.,** see Knipovich, N. M. Éksped. dlia izsl'd. u beregov Murmana. 1902-04. No. 23315.

**27595. ZHILIAKOV, N. I.** Osnovnye etapy nauchno-issledovatel'skoi raboty Gornotaezhnoi stantsii. (Akademiya nauk SSSR. Dal'nevostochnyi filial. Vladivostok. Gornotaezhnaya stantsiya. Trudy, 1946. t. 5, p. 3-16) **Title tr.:** The main stages of the scientific-investigative work of the Mountain-Taiga Station.

*Contains an account of this station, established in 1932 about 50 miles north-east of Vladivostok with two aims and*

accordingly two periods of activities: (1) the study of the local mountain-taiga, its flora and fauna and the possibilities of their economic utilization (1932-38); and (2) since 1939, introduction of new, cultivated plants, and of agriculture in general into the area. The latter work entails largely acclimatization to cold, hence its importance to arctic areas, many of which show conditions similar to those of the station and its branches. Some papers reporting results from the second phase of work (by Balandin, Belikov, Klimenko, Kolesnikov, Samoilov) are analyzed in this Bibliography. *Copy seen:* DLC.

**27596. ZHITKOV, BORIS MIKHAÏLOVICH, 1872-** . Ptitsy poluostrova Āmalā. (Akademiā nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1912, pub. 1913. t. 17, no. 3-4, p. 311-69, illus., 6 plates) *Title tr.:* Birds of Yamal Peninsula.

*Contains* observations on the biology and ecology of 53 species of birds, made during the author's trip to Yamal Peninsula in the summer of 1908 on behalf of the Russian Geographical Society; descriptive notes and measurements are given for some of the most interesting species of the collection; the distribution of birds in various zones of the Yamal is discussed.

*Copy seen:* DLC; MH-Z.

**27597. ZHITKOV, BORIS MIKHAÏLOVICH, 1872-** , and **S. V. POKROVSKIIĬ.** Tundry. Severo-lifsnā-oblāst'. Moskva, Knigoizdatel'skoe t-vo, "Dēlo," 191-247 p. illus., plates *Title tr.:* Tundras. The northern forest region.

The first part by Zhitkov (p. 1-148) contains sections on the general character and extent of the tundra regions in northern European and Asiatic Russia, the surface, structure, lakes and rivers; climate, vegetation, fauna; conquest and colonization by Russians of the northern areas; occupations of Russian settlers; non-Russian inhabitants of the North and their life (Finns, Lapps, Samoyeds, Chukchis, Eskimos, Koryaks, Yukaghirs, Chuvantzy, Tungus and Lamuts); cattle and reindeer-breeding, dogs; the arctic coast, sea and navigation; the islands of the arctic sea; riches and exploitation of the North; northern sea routes.

The second part by Pokrovskii (p. 149-247) describes the northern forest regions including parts of Arkhangel'sk

province; the relief, geology, climate, rivers, soils; plant and animal life; the Russian population, the Zyryans, the Votyaks; Arkhangel'sk and smaller towns of this province. Illustrated with photographs. *Copy seen:* DLC.

**ZHITKOV, BORIS MIKHAÏLOVICH, 1872-** , see also Chetverikov, S. S. Cheshuekrylyā p-ova Āmalā. 1911. No. 21183.

**27598. ZHITKOV, SERGEĬ MIKHAÏLOVICH, d. 1910.** Kratkoe obozrēnie vodnykh putei Rossii; dliā tekhnikov putei soobshcheniā. St.-Peterburg, Tip Īū. N. Ērlikh, 1892. 95 p. fold. col. maps. (Institut inzhenerov putei soobshcheniā Imp. Aleksandra I) *Title tr.:* A short review of the waterways of Russia; for technicians of means of communication.

*Contains* general information on the main rivers and artificial waterways of the country. Each river or canal system is treated individually and data given on the source, course, shores, depth, changes in water level, navigability, tributaries, etc. Northern waterways are treated on p. 85-86 (Siberia) and p. 86-92 (Ob'-Yenisey). A special chapter (p. 92-96) deals with administration of the waterway. Bibliography in preface (15 items). *Copy seen:* DLC.

**ZHMEĬDO, A. T.,** see Maṭsko, S. N., & A. T. Zhmeĭdo. Profēss l'doobrazovaniā i krivoi temp. tela. 1949. No. 24230.

**ZHMEĬDO, A. T.,** see also Maṭsko, S. N., & A. T. Zhmeĭdo. Vliānie na profēss zamerzaniā. 1949. No. 24231.

**ZHMEĬDO, A. T.,** see also Maṭsko, S. N., and others. Vosstanovlenie zhiznennykh funktsiī. 1948. No. 24233.

**27599. ZHUKOV, V. F.** Rozy purg. (Akademiā nauk SSSR. Izvestiā. Seriiā geograficheskāi i geofizicheskāi, 1944. t. 8, no. 2-3, p. 128-32, illus.) *Title tr.:* Snow-storm roses.

*Contains* a study of "snow-storm (purga) roses" for winds with velocity exceeding 6-7 m/sec. based on observations at Vorkuta polar station (68° N. 64° E.) in Arkhangel'sk province in 1942; the practical importance of such studies for the tundra regions is pointed out. Summary in English.

*Copy seen:* MH-Z.

**27600. ZHUKOVA, M. A.** Issledovanie sost' pochvennogo pokrova DVK. (Akademiâ nauk SSSR. Dal'nevostochnyi filial, Vladivostok. Vestnik, 1934. no. 10, p. 89-98, text maps) **Title tr.:** A synopsis of the soil study in the Far Eastern Region.

**Contains** a summary of the soil investigations of various parts of the Far Eastern Region (including the Chukotsk and Kamchatka Peninsulas) divided into two periods: 1829-1922 and 1922-32 (Soviet era), with data on various expeditions and published works. Summary in English.

**Copy seen:** DLC; MH-A.

**27601. ZHURAVSKIĬ, ANDREĬ VLADIMIROVICH.** *Cercyonops caraganae* Gebl. v Bol'shezemel'skoi tundrê (Coleoptera, Chrysomelidae). (Russkoe èntomologicheskoe obozrenie, 1908. t. 8, no. 2, p. 135-40) **Title tr.:** *Cercyonops caraganae* Gebl. in Bol'shezemel'skaya Tundra (Coleoptera Chrysomelidae).

**Contains** a study of the ecology and local geographic distribution of a leaf-beetle, *Cercyonops caraganae*, in this tundra region of Arkhangel'sk province, based on the author's observations during six years (1903-08); dependence on geographic distribution of certain plants, various ecological, geographic and climatic factors is discussed.

**Copy seen:** DLC; MH-Z.

**27602. ZHURAVSKIĬ, ANDREĬ VLADIMIROVICH.** K pereosûzneniî rukovodâshchikh polozheniî sravnitel'noi biologicheskoi geografii (polfârnye predêly). (Russkoe èntomologicheskoe obozrenie, 1909. t. 9, no. 1-2, p. 35-36) **Title tr.:** An attempt towards a reevaluation of the principles of biogeography (arctic limits).

**Contains** a biogeographic study of zonal distribution of the flora and entomological fauna of northern European Russia, based chiefly on the author's investigations in the Pechora region (Bol'shaya Tundra) and Northern Ural over a period of seven years; northern limits of the vegetation and fauna are discussed and seven natural history zones, including coastal or arctic, established.

**Copy seen:** DLC; MH-Z.

**27603. ZHURAVSKIĬ, ANDREĬ VLADIMIROVICH.** Marshrut "Bol'shezemel'skoi Èkspeditsii 1904 i 1905." (Akademiâ nauk SSSR. Zoologicheskii muzei.

Ezhegodnik, 1906, pub. 1907. p. xviii xxxiii) **Title tr.:** Route of the Bol'shezemel'skaya Expedition of 1904 and 1905.

**Contains** itinerary of a four-man expedition under the author's direction for complex study of Bol'shezemel'skaya Tundra in the Adz'va River region in 1904 and 1905, with brief notes on geography and vegetation of the region and the scientific collections made.

**Copy seen:** DLC; MH-Z.

**ZHURAVSKIĬ, ANDREĬ VLADIMIROVICH,** see also Kuznetsov, N. I. A. Some new Eastern...elements Lepidoptera...polar Europe. 1925. No. 23562.

**27604. ZHUZE, ANASTASIĬ PAN-TELEĬMONOVNA.** Novye diatomovye i kremnevye zhgutikovye vodorosli Verkhnemelovogo vozrasta iz glinistyykh peskov r. B. Akatay (Vostochnyi sklon Severnogo. Urala). Algae diatomaceae aetatis Supernecretaceae ex arenis argillaceis systematis fluminis Bolschoy Aktaï in declivitate orientali Ural Borealis.

(Akademiâ nauk SSSR. Botanicheskii institut. Otdel sporovykh rastenii. Botanicheskie materialy, 1949, 5. 6, vyp. 1-6, p. 65-78, illus.) **Title tr.:** New diatoms and flagellata in argillaceous sands of the Upper Cretaceous in the basin of Bol'shoï Akatay River on the eastern slope of the Northern Ural.

**Contains** Latin and Russian diagnoses of 11 new species of fossil diatoms and three flagellata.

**Copy seen:** MH-F.

**27605. ZIMAN, L. I. A.** Ob èkonomicheskoi razvitiî Alâski. (Vsesoûznoe geograficheskoe obshchestvo. Izvestiâ, 1950. t. 82, no. 1, p. 65-77) **Title tr.:** On the economic development of Alaska.

**Contains** sections on mining (gold, copper, lead, oil and coal); fisheries; agriculture; population; war construction. Bibliography (28 items).

**Copy seen:** DLC.

**27606. ZIMIN, L. S.** Kubyshki saranchevykh; morfologiya, sistematika, diagnostika i èkologiya. Moskva-Leningrad, Izd-vo Akademii nauk, 1938. 83 p., illus., plates 1-10. (In: Akademiâ nauk SSSR. Opredeliteli po faune SSSR. no. 23) **Title tr.:** The pods of locusts; morphology, classification and ecology.

**Contains** a study of pods (egg case) of locusts with data on their morphology

(description of parts, various types), ecology, classification, a table for the determination of pods and descriptions of 70 pods of various acridian species with data on geographic distribution; includes a few species native to Kola Peninsula, Arkhangel'sk region and northern Siberia; bibliography (35 items).

**Copy seen:** DLC; MH-Z.

**27607. ZIMIN, L. S.** Sistema triby Tachinini (Diptera, Larvivoridae). (Akademii nauk SSSR. Zoologicheskii institut. Trudy, 1935. t. 2, vyp. 2-3, p. 509-631, illus. plates 1-11) **Title tr.:** A system for the tribe Tachinini (Diptera, Larvivoridae).

Contains in pt. 1 of this paper, a scheme for the division of the tribe Tachinini (Diptera) into genera and subgenera on the basis of the structure of male genital organs, and a key to the genera and subgenera; pt. 2 is a survey of 67 palaearctic species and subspecies (16 species and one subspecies new) with synonymy, French and Russian descriptions of new species, critical notes and data on distribution; includes a few species from northern Siberia and Kamchatka. Summary in French.

**Copy seen:** DLC; MH-Z.

**ZIMIN, L. S.,** see also Shtakel'berg, A. A., & others. Opredelitel' mukh evropejskof chasti SSSR. 1933. No. 26156.

**27608. ZIMMERMANN, ALOIS.** Einige neue Dytisciden. (Notulae entomologicae, 1922. v. 2, no. 1, p. 19-21) **Title tr.:** Some new Dytiscidae.

Contains descriptions of three new aquatic beetles (Dytiscidae), including *Hydroporus laticollis* n. sp. native to Bolsheretsk, Kamchatka Peninsula.

**Copy seen:** DLC; MH-Z.

**ZINGER, R. A.,** see SINGER, ROLF, 1906-.

**ZINKHAM, W. H.,** see Wagley, P. F., & others. Note on studies paroxysmal hemoglobinuria. 1947. No. 27206.

**27609. ZINOVA, ANNA DMITRIEVNA.** O *Laminaria apoda* Rost. et Rupp. i o drugikh vidakh roda *Laminaria*. (Botanicheskii zhurnal, 1950. Bd. 35, no. 1, p. 71-73) **Title tr.:** On *Laminaria apoda* Rost. et Rupp. and other species of the genus *Laminaria*.

Contains a taxonomic study of *Laminaria apoda* and related species of that genus, including *L. cucullata* with f. *typica*

n. comb., f. *apoda* (P. et. R.) n. comb. f. *longipa* n. comb. and *L. intermedia*, native to the White and Barents Sea.

**Copy seen:** DLC; MH-A.

**27610. ZINOVA, ANNA DMITRIEVNA.** O nekotorykh osobennostyakh flory vodorosel Belogo mornia. (Vsesoiuznoe gidrobiologicheskoe obshchestvo. Trudy, 1950. t. 2, p. 231-52) **Title tr.:** On some peculiar features of the algal flora of the White Sea.

Contains historical notes on the study of White Sea algae, a systematic list of 128 species and 117 forms of brown and red algae (table 2), quantitative comparison with the floras of other arctic regions (tables 5-6), data on geographic components of the flora and notes on distribution of some species.

**Copy seen:** MH-Z.

**27611. ZINOVA, ANNA DMITRIEVNA.** O novoi forme u *Pylaiella varia* Kjellm. De forma nova *Pylaiellae variae* Kjellm. (Akademii nauk SSSR. Botanicheskii institut. Otdel sporovykh rastenii. Botanicheskie materialy, 1950. t. 6, vyp. 7-12, p. 149-51, illus.) **Title tr.:** On a new form of *Pylaiella varia* Kjellm.

Contains Latin and Russian diagnoses of a new form of brown algae, *Pylaiella varia* f. *rhizodes* collected by V. V. Kuznetsov on Kryechyetov Island off the Murman coast (approx. 69° N. 36° E.) in 1946.

**Copy seen:** MH-F.

**27612. ZINOVA, ANNA DMITRIEVNA.** O novoi forme u *Rhodymenia palmata* (L.) Grev. De forma nova *Rhodymeniae palmatae* (L.) Grev. (Akademii nauk SSSR. Botanicheskii institut. Otdel sporovykh rastenii. Botanicheskie materialy 1950. t. 6, vyp. 7-12, p. 147-48, illus.) **Title tr.:** On a new form of *Rhodymenia palmata* (L.) Grev.

Contains Latin and Russian descriptions of a new marine red alga, *Rhodymenia palmata* f. *murmanica* n. f. found on Malyy Oleniy Island off the Murman coast.

**Copy seen:** MH-A.

**27613. ZINOVA, ANNA DMITRIEVNA.** O skhodnykh otkloneniakh vo stroenii mnogokletnykh sporangiev u *Pylaiella litoralis* i *Ectocarpus siliculosus*. De deflexionibus conformibus in structura sporangiorum multicellularium *Pylaiellae litoralis* et *Ectocarpi siliculosi*. (Akademii nauk SSSR. Botanicheskii institut. Otdel sporovykh rastenii. Botanicheskie materialy, 1950. t. 6, vyp.

7-12, p. 151-55, illus.) **Title tr.:** On similar deflections in the structure of multicellular sporangia of *Pyraliella litoralis* and *Ectocarpus siliculosus*.

**Contains** a study of deflection in the structure of multicellular sporangia of *Pyraliella litoralis*, a brown algae widely distributed in the Barents Sea, and a comparison with similar phenomenon described by P. Kuekuek in *Ectocarpus siliculosus*.

**Copy seen:** MH-F.

**27614. ZINOVA, ELENA STEPANOVNA, 1874-1942.** Morskie vodorosli Komandorskich ostrovov. (Akademiia nauk SSSR. Tikhookeanskii komitet. Trudy, 1940. t. 5, p. 165-238, 11 illus.) **Title tr.:** The algae of the Commander Islands.

**Contains** report on seaweeds collected on numerous expeditions during the period 1871-1932. The general part (p. 169-75) offers data on the position, size and shores of the islands; the surrounding sea, its temperature, salinity, tides, and currents; meteorology; ice conditions and a general outline of the zones of seaweeds (according to depth). The special part (p. 176-238) deals with the morphology of the algae (in taxonomical order) anatomy, occurrence and distribution. 174 species are dealt with; eight represent new species or forms. Of all the species 134 are found also on the coasts of North America, 104 in the Sea of Japan, 95 in southern Kamchatka, 69 in the Sea of Okhotsk, 66 in the northern Bering Sea, and one in the southern Pacific, suggesting that the islands received a constant influx of seaweeds through current, traffic and driftwood. Bibliography (over 50 items). Summary in English

**Copy seen:** DLC.

**27615. ZIRNGIEBEL, LOTHAR.** Neue oder wenig bekannte Tenthredinoiden (Hym.) aus dem Naturhistorischen Museum in Wien. (In: Festschrift Dr. E. Strand, 1937. v. 3, p. 335-50) **Title tr.:** New or little known Tenthredinoidea (Hym.) from the Museum of Natural History in Vienna.

**Contains** diagnoses of eight new species and 17 new varieties of sawflies (Tenthredinoidea) from various regions in this collection, and critical notes on 19 species; includes *Pontania enslini* n. sp. collected in the Torneträsk region of northern Sweden. **Copy seen:** MH-Z.

**27616. ZNAMENSKIĬ, INNOKENTĬI EVGENIEVICH, 1885-194?** K per-

spektivam raboty krabotresta. (Rybnoe khoziaistvo Dal'nego Vostoka, 1931. no. 1-2, p. 29-32) **Title tr.:** Perspectives on the work of the crab trust.

A report on the crab industry based on western Kamchatka, with an analysis of its deficiencies and recommendations for its rationalization and intensification.

**Copy seen:** DLC.

**ZNAMENSKIĬ, INNOKENTĬI EVGENIEVICH, 1885-194?**, see also Danilov, A. N. Reaktsiia rastenii na zatmenenie. 1950. No. 21357.

**27617. ZNOĬKO, DMITRIĬ VASIL'EVICH.** Wissenschaftliche Ergebnisse der Expedition der Akademie der Wissenschaften der USSR nach Jakutien in 1925 und 1926. Die Vertreter der Scaritina (Coleoptera, Carabidae) in der Ausbeute der Jakutischen Expedition der Akademie der Wissenschaften. (Akademiia nauk SSSR. Zoologicheskii muzei. Ezhegodnik, 1931, pub. 1932. t. 32, vyp. 4, p. 565-67, illus.) **Title tr.:** Scientific results of the Yakut Expedition of the Academy of Sciences, 1925-26. Representatives of Scaritina (Coleoptera, Carabidae) in the collections of the Yakut Expedition of the Academy of Sciences.

**Contains** descriptive notes on four species of beetles (Scaritina) collected in the Yakutia by this expedition, including a diagnosis of *Dyschirius jakuticus* n. sp. Summary in Russian.

**Copy seen:** DLC; MH-Z.

**ZOHMAN, BURTON L.**, see Russek, H. I., & B. L. Zohman. Influence age upon blood pressure response. 1945. No. 25719.

**ZOLOTAREV, A. M.**, see Levin, M. G. Kraniol. tipy chukhel i eskimosov. 1949. No. 23806.

**ZOOLOGICHESKIĬ INSTITUT AKADEMII NAUK SSSR**, see Pavlovskii E. N. Ėksped. raboty Zool. instituta. 1937. No. 25004.

**27618. ZUBAKOV, V. A.** Iskopaemye l'dy i passivnoe oledenie. (Vsesoŭznoe geograficheskoe obshchestvo. Izvestiia, 1951. t. 83, p. 606-618) **Title tr.:** Ground ice and passive glaciation.

"Ice under alluvial deposits is often referred to as ground or buried ice. Ground ice is commonly found in the permafrost areas of Eastern Siberia and Alaska, and its preservation is usually

attributed to stable climatic conditions. Ground ice falls into two basic categories, ice older than its alluvial cover and ice younger than its cover. Old ground ice includes inactive glaciers, buried firn, dirt-covered snow patches and névés, and buried naleds, frozen lakes and marshes. Young ground ice covers ground ice formed as a result of condensation, ice formed in rock fissures, and islands of ice trapped between the ground surface and the upper permafrost layer.—SIPRE. Bibliography (39 items).

**Copy seen:** DLC.

**27619. ZUBKOV, A. I.** Novye dannye o rasprostraneniі drevesnoi rastitel'nosti na Taimyrskom poluostrove v poslednikovoe vremia. (Akademiia nauk SSSR. Doklady, 1948. nov. ser., t. 61, no. 4, p. 721–23, sketch map) **Title tr.:** New data on the extension of forest vegetation on Taymyr Peninsula in post-glacial time.

**Contains** a report of the finding in July 1947 by A. V. Shcherbakov and V. A. Vakar, of the Arctic Institute of U.S.S.R., of the stumps and trunks of some trees, later identified as some species of *Larix* (probably *L. daurica*) in Quaternary deposits in three localities in the northern part of Taymyr Peninsula, Siberia, near Gafner (Hafner) Fiord (a, 76°39' N. 102°25' E.; b, 76°50' N. 102°30' E.; c, 76°53' N. 102°20' E.); this shows that the forest vegetation in the post-glacial era was to the north of the tree line at the present time.

**Copy seen:** DLC; MH-Z.

**27620. ZUBKOVA, Z. N.** Aleutskie ostrova, fiziko-geograficheskii ocherk. Moskva, OGIz Gosudarstvennoe izd-vo geograficheskoi literatury, 1948. 287 p., illus. (Vsesoiuznoe geograficheskoe obshchestvo. Zapiski, novaiia seriia, t. 4) **Title tr.:** The Aleutian Islands, a physical geographical outline.

**Contains** chapters on the history of discoveries and investigations of the islands (from the time of the Bering-Chirikov expedition up to date) a description of individual islands and island groups (Near, Rat, Andreanof and Four Mountains island groups, Umnak and Unalaska, Krenitzin, Unimak); an account of the relief of the islands (geological history and genesis of the Aleutians, vulcanism and volcanoes, etc.); description of the climate and the biogeography (soils, flora, forests, fauna). Bibliography (333 items)

**Copy seen:** DLC.

**27621. ZUBOV, N. I.** Vokrug Zenitа Frantsa Iosifa. (Karelo-Murmanskii krai, 1933. v. 11, no. 1–2, p. 69–73, illus., maps) **Title tr.:** Around the Franz Josef Land.

**Contains** account of the author's work in Barents Sea, aboard the *Knipovich*, and that of others on the *Perseï* in 1931 and 1932. This was concerned with hydrological factors affecting the climate, especially the influence of the North Cape Current upon the region. The area investigated includes the Kola meridian (33°30' E. long.) northwestern Novaya Zemlya and Franz Josef Land.

**Copy seen:** DLC.

**27622. ZUBOV, NIKOLAI NIKOLAEVICH.** Arctic ice and the warming of the Arctic; being chapters VI and VII of In the center of the Arctic, an outline of the history of arctic exploration and of the physical geography of the central Arctic. Northern Sea Route Directorate Press, Moscow-Leningrad, 1948. Translated by E. Hope. Ottawa, Defence Research Board, 1950. 2 p. l., 72, [4] p. 2 fronts. (maps) illus., 9 plates, errata sheet at end.

In these chapters, "the formation, variation, and movement of arctic ice are presented. The formation of sea ice is traced from the appearance of fine ice needles to the development of ice-fields. Conditions effecting the disintegration of ice include the absorption of heat from the atmosphere and surrounding water, absorption of solar heat, and decrease in concentration of the solution contained in the brine cells. The formation of permafrost is determined by severe winter conditions and a scanty snow cover to protect the ground from freezing. A general warming of the Arctic is indicated by the retreat of glaciers, higher atmospheric temperatures, decrease in the amount of ice, and various biological symptoms."—SIPRE.

For contents of Zubov's entire book see *Arctic Bibliography* No. 19994.

**Copy seen:** DLC.

**27623. ZUBOV, NIKOLAI NIKOLAEVICH.** Dinamicheskaia okeanologiya. Moskva-Leningrad, Gidrometeorologicheskoe izd-vo, 1947. 430 p., diagrs., maps (1 fold.) **Title tr.:** Dynamic oceanology.

A comprehensive, scientific monograph with the following sections: (1) Some properties of sea water. (2) Principal

surfaces and forces in the sea. (3) Mixing of sea waters. (4) Waves in the ocean. (5) Tidal phenomena. (6) Tidal phenomena and ice. (7) Sea currents. (8) Wind and the movement of ice. (9) The ocean surface. (10) Conceptions on the general circulation of the atmosphere and the ocean. In addition to scattered information on polar conditions, chapters 6 (p. 241-56) and 8 (p. 336-53) are entirely devoted to arctic problems. They contain (chap. 6) general concepts; the influence of ice upon the tides; effect of the tides on the freezing and the ice cover of the sea; tidal cracks in the ice; tidal phenomena and stamukh ice (a single piece of ice stranded on a shoal or a shore); tidal movements of the ice; tidal compression of the ice; the concept of the "ice-hour" (mean time-interval between the culmination of the moon and the following ice compression); significance of tides for navigation in ice; tidal ice-charts; (chap. 8) drift caused by wind; drift of ice-fields (splochnyye l'dy); drift of an individual ice-floe; drift of broken-up ice; compressing and decompressing winds; ice drifts along isobars; ice movements across the baric systems. Bibliography (130 items).

**Copy seen:** DLC

**27624. ZUBOV, NIKOLAI NIKOLAEVICH, and K. S. BADIGIN.** Razgadka tajny Zemli Andreeva. (Priroda, Feb. 1952. v. 41, no. 2, p. 89-101, maps) **Title tr.:** Solution of the mystery of Andreev Land.

Contains an analysis of documents, especially the recently discovered report and log of Stepan Andreev's second voyage (1764) to the Bear Islands (Medvezh'i Ostrova, 70°50' N. 161°36' E. in East Siberia Sea) and beyond. According to these documents, Andreev saw the island, Novaya Sibir, 42 years before the accepted date of its discovery. Authors include accounts of Andreev's two voyages (1763, 1764) and the later search for "Andreev's Land" of which he believed he had seen indications, northeast of Bear Islands, 73° N. 170° W.; quotations from his notes and logs and their interpretation, etc. are given. Bibliography (7 items).

**Copy seen:** DLC.

**ZUBOV, NIKOLAI NIKOLAEVICH, see also Belov, M. I.** Sushchestvovala li Zemlia Andreeva? 1952. No. 20564.

**27625. ZUBRIKOV, A. F.** Uspekhi Poljarnoi MRS. (Rybnoe khoziaistvo, Aug. 1952. v. 28, no. 8, p. 41-44) **Title tr.:** Successes of the Polar Motor Fishing Station.

Contains a brief account on the activities of these stations, established some 20 years earlier in the major fishing areas, with the aim to introduce advanced methods. The effects of one of these, the Polar Motor Fishing Station on the fisheries of the European Arctic of the Soviets, is presented in detail with regard to improvements in fishing gear and methods, in processing and processing plants; in instruction of fishermen, etc. The increase in quantity and quality of catches, labor saving, plans for the future, etc. are noted.

**Copy seen:** DLC.

**27626. ZUEV, VASILII FEDOROVICH, 1754-1794.** Materialy po ètnografii Sibiri XVIII veka, 1771-1772. Moskva-Leningrad, 1947. 96 p. 5 illus. (Akademiia nauk SSSR. Institut ètnografii. Trudy, novaiia seriia, t. 5) **Title tr.:** Materials on ethnography of Siberia of the 18th century, 1771-1772.

Contains a foreword by N. N. Stepanov, and a biographical sketch with comments (by G. D. Verbov) of the academician Zuev (1754-1794) who took part as a young student in the expedition of P. S. Pallas across Siberia in 1769, and whose paper, *Opisanie zhivushchikh v Sibirskoi gubernii v Berezovskom uезде inovercheskikh narodov Ostiakov i Samoyedov* (A description of inhabitants of government of Siberia, in Berezov district, peoples of different religion, the Ostyaks and Samoyeds), written in 1771-72, is published here for the first time. It comprises 21 chapters on: dwellings, language, territorial boundaries of the Ostyaks, and Samoyeds, their origin and physical characteristics, clothing and ornamentation, way of life and economy (dressing of hides), crafts, food and beverages, sickness, laws, shamans, Samoyedic oaths (four texts with Russian translation), customs and behaviour, merry-making, courting and marriage, life of women, childbirth, burial, fishing (native names for fish), hunting, bird-catching, etc.; and finally an account of natural conditions in the area inhabited by these peoples in the Lower Ob basin: its weather, plants, auroras, visibility, etc. Appended is a shorter paper *Ob olenakh* (On reindeer), with a sketch

showing the animals in sledge harness.

**Copy seen:** DLC; InU.

**27627. ZUMPT, F.** Die geographische Variabilität von *Otiorrhynchus nodosus* O. Müller (-*dubius* Ström) and *Ot. schmidtii* Stierlin (Curculioniden-Studien XXVIII). (Koleopterologische Rundschau, 1938. Bd. 24, no. 3-4 p. 113-16)

**Title tr.:** Geographic variability of *Otiorrhynchus nodosus* O. Muller (-*dubius* Ström) and *Ot. schmidtii* Stierlin (Curculioniden studies, 28).

Contains data on the variability of two closely related species of beetles, *Otiorrhynchus nodosus* and *O. schmidtii*, with a table for determination of six subspecies and a list of localities. Includes *O. nodosus nodosus* native to Tromsø and Finnmark, northern Norway.

**Copy seen:** MH-Z.

**27628. ZVEREV, V. N.** Poleznye iskopaemye Ĭakutii. (In: Akademiā nauk SSSR, Leningrad. Poleznye iskopaemye i transportnā problema Ĭakutii, 1930. p. 35-62, illus., tables, fold. map) **Title tr.:** The mineral resources of Yakutia.

Summary of information on mineral resources of Yakut A.S.S.R., with data on (1) 23 coal-bearing localities in the valley of Lena River between Yakutsk and Bulun, in the Laptev Sea coastal area, and the basins of the Aldan and Vilyuy Rivers; results of technical-chemical analysis of coal of the most important deposits; (2) fourteen iron ore deposits; (3) five salt deposits; (4) three silver-lead deposits, and (5) two deposits containing Iceland spar. Includes fold. map, scale 1:12,600,000, indicating the mineral deposits mentioned in the text; also bibliography (39 items). **Copy seen:** DLC.

**27629. ZVEREVA, O. S.** Novye formy lichinok Tendipedidae (Diptera) iz rek Pechory i Vychegdy. (Ėntomologicheskoe obozrenie, 1950. t. 31, no. 1-2, p.

266-84, illus.) **Title tr.:** New forms of larvae of Tendipedidae (Diptera) from Pechora and Vychegda Rivers.

Contains diagnoses of 20 new species of the larvae of Tendipedidae inhabiting Pechora and Vychegda Rivers, Arkhangel'sk province, including ten species from the lower Pechora (Bugayev), with data on habitat and ecology of these benthic species.

**Copy seen:** MH-Z.

**ZVORYKINA, N. F.,** see Poplavskāiā, G. I., & others. Ocherki po ėkologii rastenii. 1937. No. 25207.

**27630. ZYKOV, I. V.** Osobennosti snegotāniā i znachenie lesnykh polos v sibirskoi lesostepi. (Priroda, Apr, 1951. v. 40, no. 4, p. 54-57, illus.) **Title tr.:** Characteristics of snow thawing and the significance of forest strips in the Siberian forest steppe zone.

"The significance of snow cover to winter crops and the characteristics and duration of the snow under forest steppe conditions are discussed. The role of wind in the thawing of snow in the Siberian steppe is considered and measures are suggested for preventing rapid thawing (evaporation) of snow under the action of wind by the use of forest strips."—*Meteorological abstracts and bibliography*, Nov. 1951. v. 2, no. 11, p. 912.

**Copy seen:** DLC.

**27631. ZYKOV, V. P.** O geograficheskom raspredelenii nazemnykh i priĕsnovodnykh sliznākov Evropeiskoi Rossii. (Vĕstnik estestvoznaniā, 1890. t. 1, no. 9, p. 391-96) **Title tr.:** On the geographic distribution of terrestrial and fresh-water snails in European Russia.

Contains a preliminary report on the distribution of these snails and slugs in European Russia, including some species native to the taiga region of Arkhangel'sk province and northern Finland.

**Copy seen:** MH-Z.

# ABBREVIATIONS USED IN TITLES IN INDEX

\*—basic work

&—and

Ablag.—Ablagerung (-en) - *depos-  
it(s); sediment(s)*

aerol.—aerology; aerological; aero-  
logische

anmärkn.—anmärkning (-en; -ar) -  
*remark(s); comment(s)*

anteckn.—anteckning (-en; -ar) -  
*note(s)*

antegn.—antegne (-lse) - *note(s)*

anthrop.—anthropology; anthropo-  
logical; anthropologische; anthro-  
pologie

antrop.—antropologiā; antropolo-  
gicheskii

archäol.: archäol.—archäologische;  
Archäologie

archeol.—archeology; archeological

arkheol.—arkheologiā; arkheologi-  
cheskii

astron.—astronomy; astronomical;

astronomie; astronomische; astro-  
nomiska; astronomiā; astronomi-  
cheskii

b.—baie; bukhta - *Bay* (in geographic  
names)

B.—Bay(s) (in geographic names)

Beitr.—Beitrag; Beiträge - *contribu-  
tion(s)*

Bemerk.—Bemerkung (-en) - *re-  
mark(s)*

bemerkn.; bemaerken.—bemerkning  
(-er) - *observation(s); remark(s)*

Beob.—Beobachtung (-en) - *obser-  
vation(s)*

berät.—berättelse - *report*

Beschreib.—Beschreibung (-en) -  
*description(s)*

bestämn.—bestämning (-en; -ar) -  
*determination(s)*

bibliog.—bibliography; bibliograph-  
ical; bibliografiā; bibliografi-  
cheskii

biol.—biology; biological; biologiā;  
biologicheskii; biologi

bot.—botany; botanical; botanika;  
botanicheskii; botanische; botan-  
isk(a)

C.—Cape (in geographic names)

Can.—Canadian

Co., co.—Company (in firm names)

contrib.—contribution(s)

d.—der; die; das; des; dem (German  
definite article); det (Danish and  
Swedish)

descrip.—description(s)

distr.—distrikt

distrib.—distribution

E.—East; eastern

eksped.—ekspedițiā - *expedition*

elektr.—elektriciteten - *electricity*

Entwickl.—Entwicklung - *develop-  
ment*

Erforsch.—Erforschung (-en) - *in-  
vestigation(s); research(es); discovery;  
discoveries*

Ergeb.—Ergebnisse - *results*

ethnograph.—ethnographische - *ethno-  
graphic*

ethnol.—ethnology

étnograf.—étnograficheskii - *ethno-  
graphic*

exped.—expedition(s)

explor.—exploration(s)

f.—für — *for*  
 finländ.—finländische — *Finlandic*  
 Förbered.—Förberedelse (—erna) —  
*preparation(s)*  
 försten.; forsten.—förstening (—en;  
 —ar); forstening (—er) — *fossil(s)*  
 förteckn.—förteckning — *list*

G.—Gulf (in geographic names)  
 g.—gora — *Mountain*  
 g.; gg.—god(a) — *year(s)* following dates  
 geog.—geography; geographical; geo-  
 grafische; geografiska; geografis;  
 geograficheskii  
 geol.—geology; geological; Geologie;  
 geologiske; geologiske; geologi;  
 geologicheskii  
 geomorf.—geomorfologi;  
 geomorfologicheskii — *geomorphology; geo-  
 morphological*  
 geomorph.—geomorphology; geomor-  
 phological  
 Gesell.—Gesellschaft — *Society* (in  
 names of institutions)  
 gidrograf.—gidrograficheskii — *hydro-  
 graphic*  
 gidrol.—gidrologi;  
 gidrologicheskii — *hydrology; hydrological*  
 gidrometeorol. — gidrometeorologi-  
 cheskii — *hydrometeorological*  
 glaciol.; glaziol.—glaciologiske; gla-  
 ziologiske — *glaciological*  
 Gt.—Great (in geographic names)  
 gub.—guberniä — *government district*

Halbins.—Halbinsel — *peninsula*  
 hist.—history; historical; historische  
 hydrograf.—hydrografiska; hydro-  
 grafische; hydrographique(s) —  
*hydrographic*  
 hydrol.—hydrologique(s); hydrolo-  
 giske — *hydrological*

I.—Island(s) (in geographic names)  
 iakttag. (iagttag.)—iakttagelse (—n;  
 —r) — *observation(s)*  
 Ins.—Insel(n) — *Island(s)*  
 insaml.—insamlade — *collected*  
 invest.—investigation(s)  
 issled.; izslēd.—issledovanie; izslē-  
 dovanie — *exploration*  
 ūzh.—ūzhnyi — *southern, or south  
 as an adjective*

Kennt.—Kenntnis — *knowledge*  
 khoz.—khoziästvo — *economy; estab-  
 lishment; farm*  
 khr.—khrebet — *mt. range*

L.—Lake(s); Lower (as part of geo-  
 logic era); Land (in geographic  
 names)

m.—mys — *cape*  
 M.—Middle (as part of geologic era)  
 magnēt.; magnet.—magnétisme; ma-  
 gnétique(s); magnetische — *magnetic*  
 meteorol.—meteorology; meteorologi-  
 cal; Meteorologie; meteorologiske;  
 meteorologiska; meteorologi;  
 meteorologicheskii  
 mineralog.—mineralogisk  
 Mitteil.—Mitteilung (—en) — *report(s)*  
 monograf.—monografiä; monogra-  
 fischeskii — *monograph; monographic*  
 Mt.—Mount  
 mts. (Mts.)—mountains

N.—north; northern; the North  
 nablūd.—nablūdenie (—iä) — *obser-  
 vation(s)*  
 naturwiss.—naturwissenschaftliche —  
*natural history (etc. used as adjective)*  
 nauch.—nauchnyi — *scientific*  
 NE.—northeast; northeastern  
 nördl.—nördlich — *northern; north-  
 erly*  
 nordv.—nordvestra — *northwestern*  
 NW.—northwest; northwestern  
 NWT.—Northwest Territories

o.; o—va; o—ve (and other case end-  
 ings)—ostrov — *Island* (in geographic  
 names)  
 O.—Ocean(s)  
 obl.—oblast' — *region; district; territory*  
 observ.—observation(s); observation  
 (—en; —er); observations  
 ok.—okean — *Ocean* (in geographic  
 names)  
 omkr.—omkring — *around; about*  
 opred.—opredelenie (—iä) — *determi-  
 nation(s)*  
 ornithol.—ornithology; ornithologi-  
 cal; ornithologiske; ornitholo-  
 gique

ornitol.—ornitologi; ornitologisk, —  
*ornithology; ornithological*  
 o—va; o—vov; o—vakh (and other case  
 endings)—ostrova — *Islands* (in geo-  
 graphic names)  
 oz.—ozero — *Lake* (in geographic  
 names)

paleobot.—paleobotany; paleobotan-  
 ical; paleobotanische  
 paleogeog.—paleogeography; paleo-  
 geographical; paleogeographische;  
 paleogeografiā

paleon.—paleontology; paleontolo-  
 giā; paleontologicheskii  
 paleozool.—paleozoologische — *pale-  
 ontological*

Pen.—Peninsula

petrog.: petrograf.; Petrog.—petro-  
 grafiā; petrograficheskii; petro-  
 grafisk

petrograph.—petrographische; Petro-  
 graphie

petrol.—petrologicheskii — *petrologic*

p—ov—poluostrov — *peninsula*

phytogeog.—phytogeography; phyto-  
 geographic

Pr.—proliv (—a) — *strait(s)*

Pr.—Prince (in geographic names)

predvar.—predvaritel'nyi — *prelimi-  
 nary*

Prelim.—preliminary; prélimi-  
 naire(s)

r.—reka — *river*, also *River(s)* in geo-  
 graphic name

R.—River(s) in geographic name

S.—south; southern

Sd.—Sound (in geographic names)

SE.—southeast; southeastern

sev. (siev.); Sev.—severnii (siev-  
 nyi); Sever — *northern; the North*

sev.—vost. (siev.—vost.)—severo—vos-  
 tochnyi — *northeastern*

skan.—skandinavisk — *Scandinavian*

St.—Strait (in geographic names)

St. (Ste.)—Saint(e)

stratig.—stratigraphische — *strati-  
 graphic*

suppl.—supplement

sv. (Sv.)—sviatoi; Sviatofa — *Saint(e)*

SW.—southwest; southwestern

terr. magnet.—terrestrial magnetism

topograf.—topografisk; topografi-  
 cheskii — *topographic*

u.—und — *and*

U.—Upper (as part of geologic era)

Umgeb.—Umgebung (—en) — *environ-  
 ment*

unders.—undersøgelse (—r); under-  
 søkelse; undersökning (—en; —ar)  
 — *investigation(s)*

univ.—university; Universität; uni-  
 versitet

Untersuch.—Untersuchung (—en) —  
*investigation(s)*

v.—von; vom — *from; of; by*

växtgeog. — växtgeografisk

Verbreit.—Verbreitung — *distribution*

Verhältn.—Verhältniss(e) — *relation(s);  
 condition(s)*

vorl.—vorläufige — *preliminary*

vost.—vostochnyi — *eastern*

W.—west; western

wiss.—wissenschaftliche — *scientific*

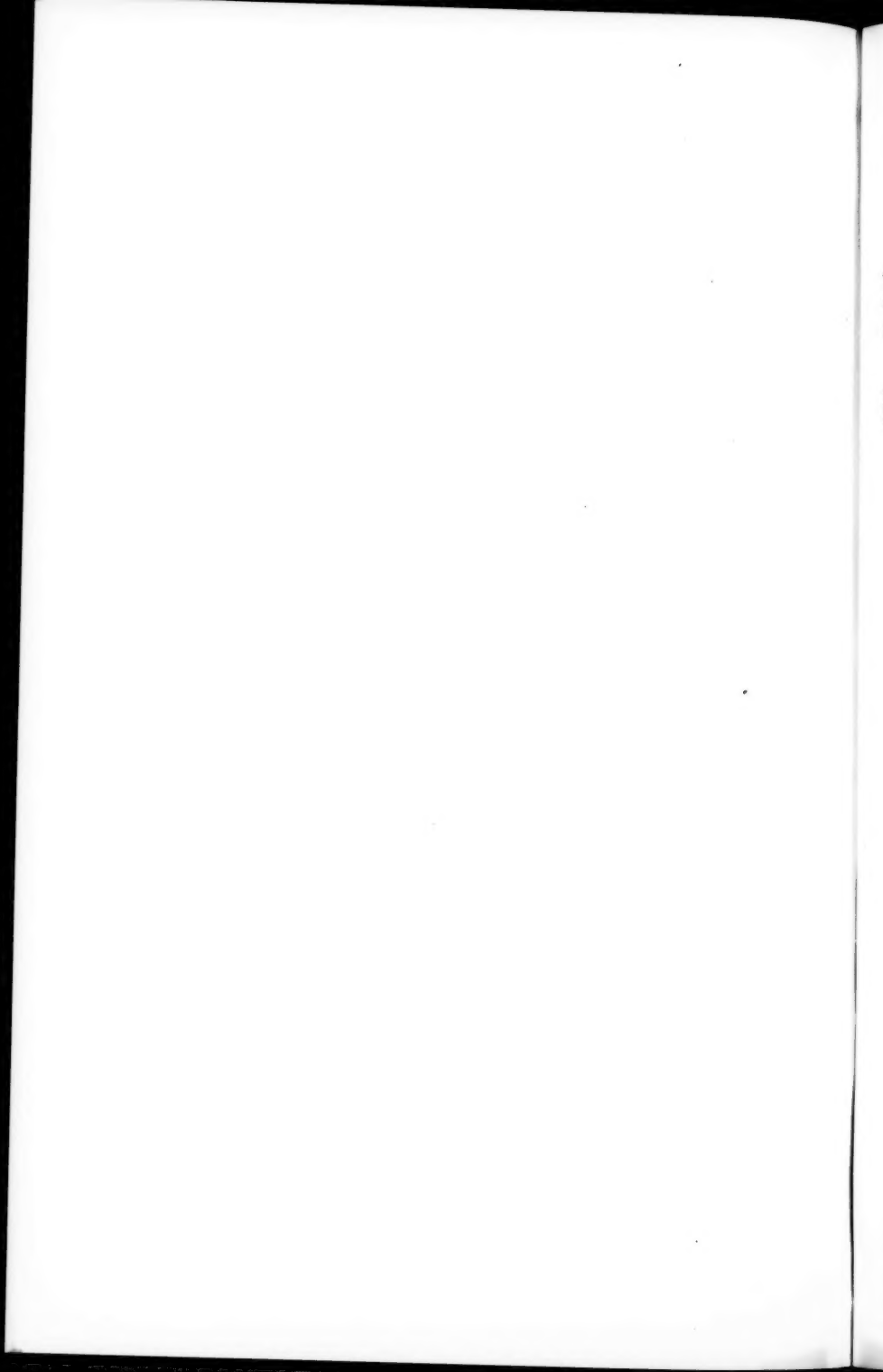
z.—zur; zum — *to, toward*

zal.—zaliv — *gulf*

zap.—zapadnyi — *western*

zem. magnet.—zemnoi magnetizm —  
*terrestrial magnetism*

zool.—zoology; zoological; Zoologie;  
 zoologische; zoologiska; zoologiā;  
 zoologicheskii



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